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Cable installation guide

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## • CE CONFORMITY DECLARATION

ACCORDING TO EN 60730-1 \ EN 60529

HTP HIGH TECH PRODUCTS S.R.L. DECLARES THAT ITS PRODUCTS ARE IN CONFORMITY WITH SAFETY REQUIREMENTS OF DIRECTIVES 2014/35/EU (ex 2006/95/CE, 73/23/CEE ), EMC 2014/30/EU (ex 93/68, 2004/108/EC ) AND VDE 110 TECHNICAL NORMS.

## • RoHS ROHS DECLARATION

HTP HIGH TECH PRODUCTS S.R.L. DECLARES THAT ITS PRODUCTS COMPLY WITH THE EUROPEAN STANDARD 2011/65/UE (ex 2002/95/CE) ROHS (RESTRICTION OF HAZARDOUS SUBSTANCES) AND WITH WEEE REQUIREMENTS.

## • REACH REACH DECLARATION

HTP HIGH TECH PRODUCTS S.R.L. DECLARES THAT IT HAS FULLY COMPLIED WITH THE REACH NORMATIVE no. 1907/2006.

HTP HIGH TECH PRODUCTS S.R.L. NEITHER PRODUCES NOR IMPORTS CHEMICAL SUBSTANCES (AS CHEMICAL SUBSTANCES THEMSELVES OR AS COMPONENTS OF CHEMICAL SUBSTANCES); HOWEVER AS A USER OF SUBSTANCES, HTP HIGH TECH PRODUCTS S.R.L. HAS PROMOTED THE KNOWLEDGE OF THE REACH NORMATIVE TO ALL ITS SUPPLIERS WITH REGARD TO THE RAW MATERIALS BEING USED IN THE PROCESS AND HAS ENSURED THAT ALL ITS SUPPLIERS HAVE CONFORMED TO THE REACH NORMATIVE AND TO THE PRE-REGISTRATION IF REQUESTED.

ON THE BASIS OF THE INFORMATION RECEIVED FROM OUR SUPPLIERS, WE ALSO INFORM THAT THE PRODUCTS SUPPLIED BY HTP HIGH TECH PRODUCTS S.R.L. DO NOT CONTAIN ANY HIGHLY DANGEROUS SUBSTANCES INCLUDED IN THE CANDIDATE LIST (PUBLISHED BY THE AGENCY AND UPDATED) ABOVE THE LIMITS DEFINED IN THE REACH NORMATIVE.

## • EAC EAC CERTIFICATE

CERTIFICATE OF COMPLIANCE

Certificate n° RU C-CN.HB27.B.00415/20

RU Series: 0243802

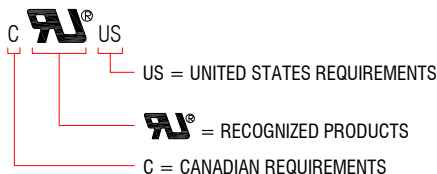
INDUSTRIAL ELECTRICAL CONNECTORS, PLUG CONNECTORS SERIES:

G1;G1C;G1F;G4;M1;M2;P1;P2;BG0;BG1;BG4;BG5;BG7;BG8;BG10;BG16;BG33;BG42;BGR;BM1;BP1;BP2;BP3;AM;AG; AP;G1B;BG1;BG1B;BGB;08;12;78;P3;P4;BP3;BP4;15;CG1;CBG1;CG5;CGB;CBGB;CM1;CM2;CM1B;CP1;CP2;CP2C;09; 23;HDC;CG1;CM1;CM2;CP1;CP2;A;B;C;D;CG1E;CM1E;CM2E;A;C

Standard(s) for safety:

All above connectors and plugs meet safety requirements TP TC 004/2011 for low voltage equipment.

## • UL CERTIFICATES



### DIN VALVE CONNECTORS FIELD ATTACHABLE & BASES

CERTIFICATE OF COMPLIANCE

Certificate n° E333724

COMPONENT-CONNECTORS FOR USE DATA, SIGNAL, CONTROL AND POWER APPLICATIONS

USR, CNR Component Connector, Series G1, G2, G1F and header BG.

Component Connector, Series Cat. Nos. P1 and P2 and header Series Cat. Nos. BP1 and BP2.

USR, CNR Component Connector, Series M1&M2 and header BM.

Standard(s) for safety:

Component connectors for use in data, signal, control and power applications, UL 1977 and CAN/CSA C22.2 No.182.3-M1987

### M8 CIRCULAR CONNECTORS WITH MOULDED CABLE

CERTIFICATE OF COMPLIANCE

Certificate n° E464987

CABLE ASSEMBLIES AND FITTINGS FOR INDUSTRIAL CONTROL AND SIGNAL DISTRIBUTION

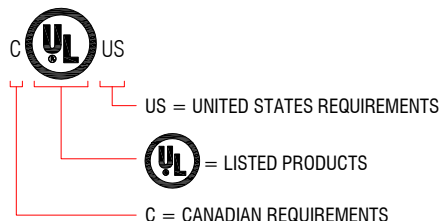
Female and male cable fittings (one-side molded-on models) Cat. Nos.

08FA, 08FD, 08MA, 08MD, 08FJ, 08FV, 08MJ, 08MV.

Extension cable Assembly, series M8, Cat. Nos. 08FA, 08FD, 08MA, 08MD, 08FJ, 08FV, 08MJ, 08MV.

Standard(s) for safety:

UL 2238 standard for cable assemblies and fittings for industrial control and signal distribution  
CSA C22.2 No.182.3-M1987 special use attachment plugs, receptacles and connectors.



## M12 CIRCULAR CONNECTORS WITH MOULDED CABLE

### CERTIFICATE OF COMPLIANCE

Certificate n° E464987

CABLE ASSEMBLIES AND FITTINGS FOR INDUSTRIAL CONTROL AND SIGNAL DISTRIBUTION

Female and Male Cable Fittings, Series M12, Cat. Nos. :

|      |        |        |        |
|------|--------|--------|--------|
| 12FA | B-12FA | D-12FA | S-12FA |
| 12FD | B-12FD | D-12FD | S-12FD |
| 12MA | B-12MA | D-12MA | S-12MA |
| 12MD | B-12MD | D-12MD | S-12MD |
| 12FJ | B-12FJ | D-12FJ | S-12FJ |
| 12MJ | B-12MJ | D-12MJ | S-12MJ |
| 12FV | B-12FV | D-12FV | S-12FV |
| 12MV | B-12MV | D-12MV | S-12MV |

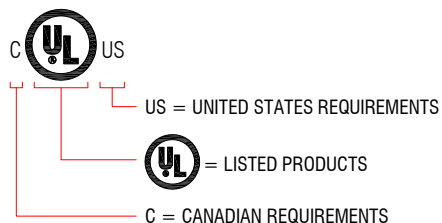
Extension cable Assembly, Series M12, Cat. Nos. 12 or B-12 or D-12 or S-12.

Series M12, panel connectors, Female, Cat. Nos. S-12FP, S-12FR.

Standard(s) for safety:

UL 2238 standard for cable assemblies and fittings for industrial control and signal distribution

CSA C22.2 No.182.3-M1987 special use attachment plugs, receptacles and connectors.



## VALVE CONNECTORS EN175301-803 (form A), WITHOUT ELECTRONIC, WITH MOULDED CABLE

### CERTIFICATE OF COMPLIANCE

Certificate n° E464987

CABLE ASSEMBLIES AND FITTINGS FOR INDUSTRIAL CONTROL AND SIGNAL DISTRIBUTION

Valve Connectors, Series CG DIN-A EN175301-803 form A, without electronic.

Cable Fittings (Female connectors only)

Cat. Nos. CG1N02000, CG1N03000 and CG5N02000, CG5N03000.

Cat. Nos. CG6N02000, CG6N03000.

Standard(s) for safety:

UL 2238, Cable Assemblies and Fittings for Industrial control and Signal Distribution

CSA C22.2 No 182.3, special use attachment plugs, receptacles, and connectors.

## ATEX CERTIFICATES

The electrical, electronic and mechanical equipment present in not dangerous places are safe if they are CE-labelled, that means that the manufacturers ensure the observance of the requirements established by EU applicable regulations and standards.

Increasingly, electrical and electronic equipment is being used in potentially hazardous environments to automate or control certain production processes.

However, the use of such equipment in close proximity to flammable or combustible gases or materials increases the risk of fire or explosion, as the normal operation of electrical and electronic equipment often involves actions or reactions that are a potential ignition of risk.

These potentially hazardous environments, also known as "Ex areas" (short for explosive areas), are found in a range of industries, including oil and gas refineries and distribution facilities, chemical processing plants, grain and agricultural handling, processing and storage facilities, underground mines, and even hospital operating environments.

In the European Union (EU) the equipment present in potentially dangerous places must comply with the conditions established by EU Directive 2014/34/EU, also known as ATEX Directive (ATEX comes from French "*Atmosphere Explosible*").

The Regulation applies to all electrical and non-electrical products that are used in dangerous places, including equipment, protection systems, components and safety devices.

Like all "*New Approach*" Directives, the ATEX Legislation lays down the application of standards that assess the technical compliance of products.

The tests of conformity are usually proved by the supplier with a declaration that is based on a technical evaluation.

In addition, manufacturers of electrical equipment of Category 1 and Category 2 have to get a certification issued by an EU Notified Body.

Moreover, the conformity with the essential requirements established by ATEX Directive ensure not to run into additional risks or undermine the security of the working environment.

The need of the producers to satisfy specific safety requirements of their products expand the market opportunities and allow to meet the customers' requests.



### CONNECTOR'S TYPE

DIN VALVE CONNECTORS FIELD ATTACHABLE

M12 CIRCULAR CONNECTORS FIELD ATTACHABLE

M8 CIRCULAR CONNECTORS FIELD ATTACHABLE

### ATEX MARKING

II 2G Ex eb IIC T5 Gb ; II 2D Ex tb IIIC T100°C Db IP65/67  
 II 2G Ex eb IIC T5 Gb ; II 2D Ex tb IIIC T100°C Db IP65/67  
 II 2G Ex eb IIC T5 Gb IP55/57

### DIN VALVE CONNECTORS FIELD ATTACHABLE:

|      |   |    |          |    |          |             |              |          |         |
|------|---|----|----------|----|----------|-------------|--------------|----------|---------|
| 0948 |   | II | 2G<br>2D | Ex | eb<br>tb | IIC<br>IIIC | T5<br>T100°C | Gb<br>Db | IP65/67 |
| 1    | 2 | 3  | 4        | 5  | 6        | 7           | 8            | 9        | 10      |

### M12 CIRCULAR CONNECTORS FIELD ATTACHABLE:

|      |   |    |          |    |          |             |              |          |         |
|------|---|----|----------|----|----------|-------------|--------------|----------|---------|
| 0948 |   | II | 2G<br>2D | Ex | eb<br>tb | IIC<br>IIIC | T5<br>T100°C | Gb<br>Db | IP65/67 |
| 1    | 2 | 3  | 4        | 5  | 6        | 7           | 8            | 9        | 10      |

### M8 CIRCULAR CONNECTORS FIELD ATTACHABLE:

|      |   |    |    |    |    |     |    |    |         |
|------|---|----|----|----|----|-----|----|----|---------|
| 0948 |   | II | 2G | Ex | eb | IIC | T5 | Gb | IP55/57 |
| 1    | 2 | 3  | 4  | 5  | 6  | 7   | 8  | 9  | 10      |



GUIDE TO THE ATEX WORLD:

1 ID 1

2 ID 2

3 Group Equipment

4 Equipment Category

CE

CE Marking

0948 : Notified body.

Ex

ATEX Marking.

II = used in all other EX environments.

2G = equipment suitable for areas where, during normal activities, explosive atmospheres due to gas, vapors or mists (zone 1) may occur; suitable to be installed in zone 1.

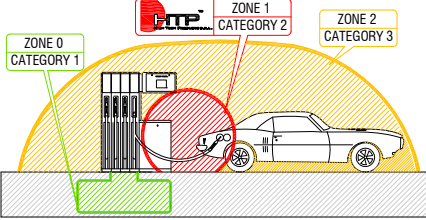
2D = equipment suitable for areas where, during normal activities, explosive atmospheres due to a mixture of air and flammable dusts (zone 21) and that has inside a bonded device that will be connected to a category 1 equipment; suitable to be installed in zone 21.

| Equipment Category | Gas zone (G) | Dust zone(D) |
|--------------------|--------------|--------------|
| 2                  | 1            | 21           |

ZONE 0  
CATEGORY 1

ZONE 1  
CATEGORY 2

ZONE 2  
CATEGORY 3



The ATEX Directive lays down the categories of the protective systems and devices, that have to be used in the corresponding areas according to the below table.

| Zone | Equipment | Presence of explosive atmosphere |                                                    |
|------|-----------|----------------------------------|----------------------------------------------------|
| Gas  | Dust      | Category                         |                                                    |
| 0    | 20        | 1                                | Continuously or for long periods > 1000 hours/year |
| 1    | 21        | 2                                | Occasionally 10 – 1000 hours/year                  |
| 2    | 22        | 3                                | Rarely or for short periods < 10 hours/year        |

5 Equipment

6 Type of initiation protection

7 Explosion Group

Ex= explosion-proof equipment.

eb = "eb" increased safety equipment.

tb = equipment with an enclosure that prevents dust ingress and with devices to limit surface temperatures; protection level "b".

IIC = equipment not addressed to underground work in mines or their surface plants which could exposed to risk of explosive atmospheres - subgroup of C gas; suitable to be installed in presence of any gas (subgroups A, B and C).

IIC = equipment not addressed to underground work in mines or their surface plants which could exposed to risk of explosive atmospheres - subgroup of C dusts; suitable to be installed in presence of any dust (subgroups A, B and C).

8 Definition of temperatures generated by equipment

9 Equipment protection level

10 Protection class

T5 = equipment that can reach, but not exceed 100°C of absolute temperature.

T...°C = equipment that can reach, but not exceed in surface ...°C of absolute temperature.

Gb = equivalent to 2G category.

Db = equivalent to 2D category.

IP protection type.



● **INTERNATIONAL PROTECTION CLASSES according to EN 60529 (IEC 529 / VDE 047T1)**

FIRST INDEX PICTURE  
PROTECTION CLASS-PROTECTION AGAINST SOLID FOREIGN  
OBJECTS PENETRATING THE PRODUCT.

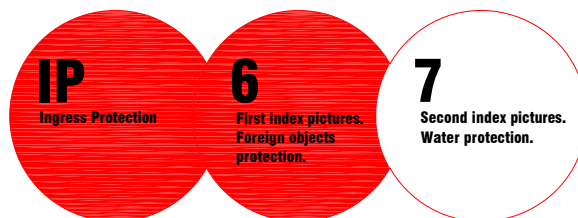


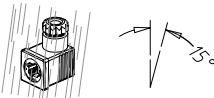
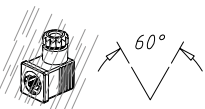
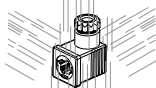
| Index | Degree of protection |                                                                                                                                                                    | Definition                                                                                                                                                                |
|-------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0     |                      | No protection against accidental contact, no protection against solid foreign bodies.                                                                              |                                                                                                                                                                           |
| 1     |                      | Protection against contact with any large area by hand and against solid foreign bodies with $\varnothing > 50\text{mm}$ .                                         | The sample object, a ball of 50mm diameter, must not penetrate the enclosure completely.                                                                                  |
| 2     |                      | Protection against contact with the fingers, protection against solid foreign bodies with $\varnothing > 12\text{mm}$ .                                            | The sample object, a ball of 12.5mm diameter, must not penetrate the enclosure completely.                                                                                |
| 3     |                      | Protection against tools, wires or similar objects with $\varnothing > 2.5\text{mm}$ , protection against solid foreign bodies with $\varnothing > 2.5\text{mm}$ . | The sample object, a ball of 2.5mm diameter, must not penetrate the enclosure at all.                                                                                     |
| 4     |                      | Just like 3 except for the size difference of $\varnothing 1\text{mm}$ .                                                                                           | The sample object, a ball of 1mm diameter, must not penetrate the enclosure at all.                                                                                       |
| 5     |                      | Full protection against contacts, protection against interior injurious dust deposits.                                                                             | Ingress of dust is not prevented completely but dust may only enter to such extent that the amount of dust does not interfere with normal operation or compromise safety. |
| 6     |                      | Total protection against contact, protection against penetration of dust.                                                                                          | Ingress of dust is not prevented completely.                                                                                                                              |



- INTERNATIONAL PROTECTION CLASSES according to EN 60529 (IEC 529 / VDE 047T1)

SECOND INDEX PICTURE.  
PROTECTION CLASS-PROTECTION AGAINST INGRESS OF  
WATER WITH ADVERSE EFFECTS.



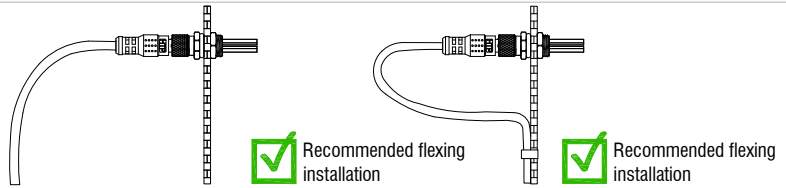
| Index          | Degree of protection                                                                                                                                 | Definition                                                                                                                                                                                                                                                                                      |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>0</b>       | No protection against water.                                                                                                                         |                                                                                                                                                                                                                                                                                                 |
| <b>1</b>       |  Protection against vertical water drips.                           | Vertically falling water drops must not have any adverse effects.                                                                                                                                                                                                                               |
| <b>2</b>       |  Protection against water drips (up to a 15° angle)                 | Vertically falling water drops must not have any adverse effects when the enclosure is tilted up to 15° on either side of the vertical.                                                                                                                                                         |
| <b>3</b>       |  Protection against diagonal water drips (up to a 60° angle)        | Water, sprayed at an angle up to 60° on either side of the vertical, must not have any adverse effects.                                                                                                                                                                                         |
| <b>4</b>       |  Protection against splashed water from all directions.            | Water, splashed against the enclosure from any direction, must not have any adverse effects.                                                                                                                                                                                                    |
| <b>5</b>       |  Protection against water (out of a nozzle) from all directions.  | Water, projected in jets against the enclosure from any direction, must not have any adverse effects.                                                                                                                                                                                           |
| <b>6</b>       |  Protection against temporary flooding.                           | Water, projected in powerful jets against the enclosure from any direction, must not have any adverse effects.                                                                                                                                                                                  |
| <b>7</b>       |  Protection against temporary subimmersion in water.              | Water may only enter to such extent that the amount of water entering the enclosure does not cause any adverse effects when the enclosure is temporarily immersed in water; standardized pressure and time conditions apply.                                                                    |
| <b>8</b>       |  Protected against permanent subimmersion in water.               | Water may not enter to such extent that it causes any adverse effects when the enclosure is continuously immersed in water, under conditions that have been agreed upon by the manufacturer and the user; the conditions must be more difficult than the conditions described in point digit 7. |
| <b>9<br/>K</b> |  Protected against water from high-pressure / steam jet cleaners. | Water, directed against the enclosure from any direction under extremely high pressure, must not have any adverse effects.                                                                                                                                                                      |

## • CABLE INSTALLATION GUIDE

Avoiding common cabling pitfalls! Proper installation and maintenance of cabling systems will ensure high operational dependability and longevity of the system.

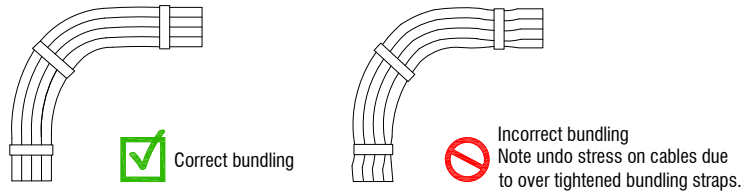
### BEND RADIUS:

Procuring commensurate bend radius allows the cable to absorb the impact of bending, with less tension, thereby, increasing its life cycle. Increasing bend radius can significantly increase the duration of the cable's life and reduce costs.



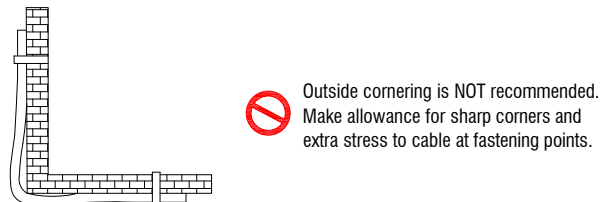
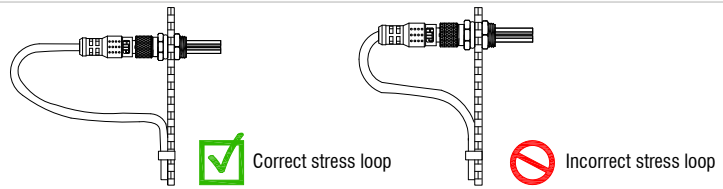
### CABLE BUNDLING:

When attaching single cables to equipment, or bundling several cables together, care must be taken that the cable ties do not pinch or deform the cable. Correct cable bundling enables movement without stress to the cable, which will translate into long lasting usage.



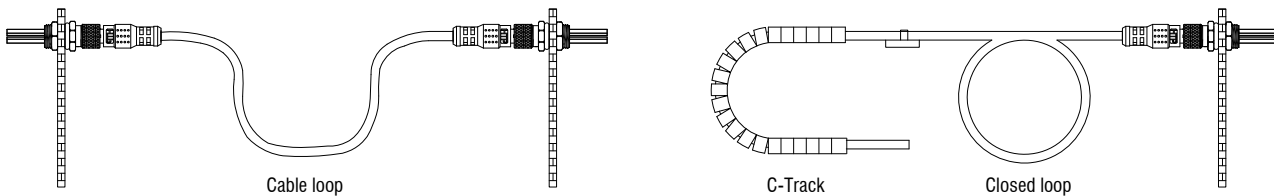
### STRESS POINTS:

Implementing a sufficient stress loop from a connection point will reduce excessive wear and eliminate a common problem: stress points pictured below. Note the rugged overmoulded body, which provides exceptional stress relief in conjunction with the correctly installed stress loop.



### INSTALLATION OF CABLE FOR MOTION APPLICATIONS:

When connected cable is subjected to any motion between two points, the cable length should be adequate to prevent any undue stress on the cable or plugs. Cable loops and cable tracks are the solution to eliminate cable stress due to motion.





## VALVE CONNECTORS

● GENERAL FEATURES:

**Cable Gland :**  
**PG7:** ø CABLE 4-6mm  
**PG9 :** ø CABLE 6-8mm.  
**PG11 :** ø CABLE 6-10mm.  
**1/2" NPTF :** ø CABLE 8-10mm.  
**SK(G1) :** ø CABLE 4-8.6mm.  
**SK(M1-M2) :** ø CABLE 4-8.6mm.  
**SK(P1-P2) :** ø CABLE 3.5-5.5mm.

**Conductor cross section :**  
0.50(20AWG)...1.50mm²(16AWG).

**Fixing system :**  
Central fixing screw.

**Max. screw torque IEC60947-1**  
(Central fixing screw) :  
G1-G4-M1-M2-P2 series: Max. 0.5 N\*m.  
P1 series: Max. 0.4 N\*m.

**Type of terminations :**  
Screw(with protection plate).

**Contact material and treatment :**  
Brass + Silver plated.

**Max. contact screw torque IEC60947-1 :**  
G1-G4-M1-M2 series: Max. 0.5 N \* m.  
P1-P2 series: Max. 0.4 N \* m.

**Housing material :**  
PA66 UL94-V2 standard.  
PA66 UL94 -V0 ATEX approved.  
PA66 UL94 -V0 UL approved.

**Internal core material :**  
PA66 UL94-V2 standard.  
PA66 UL94-V0 ATEX approved.  
PA66 UL94-V0 UL approved.

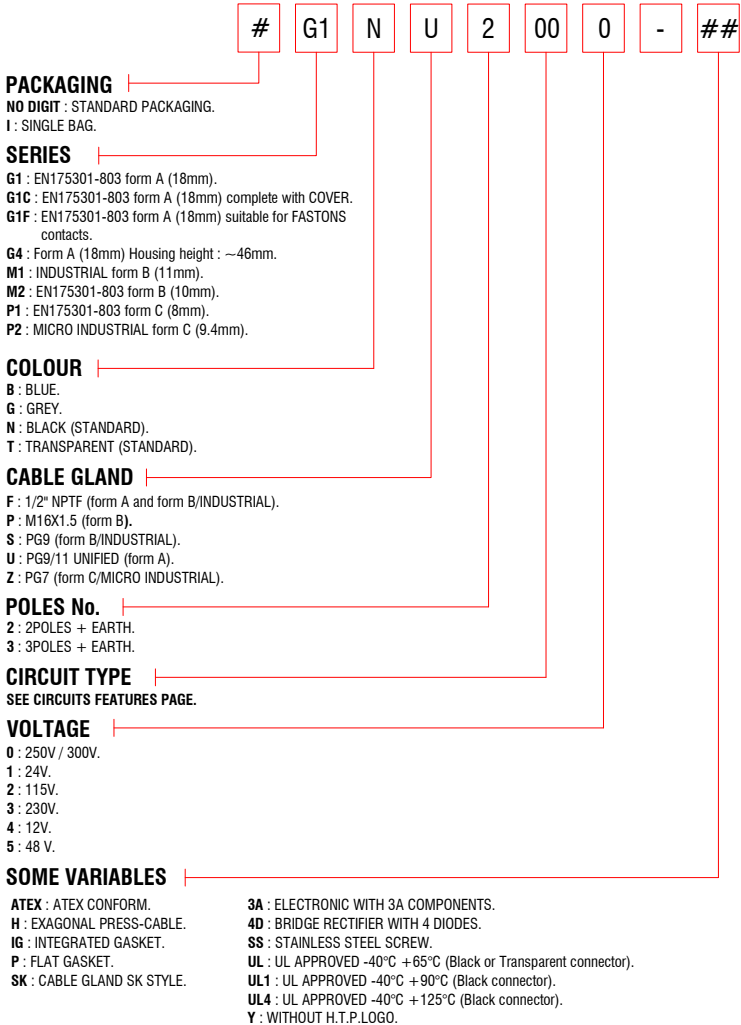
**Flammability resistance :**  
UL94-V2 - Standard.  
UL94 V0 ATEX approved.  
UL94-V0 - UL approved.

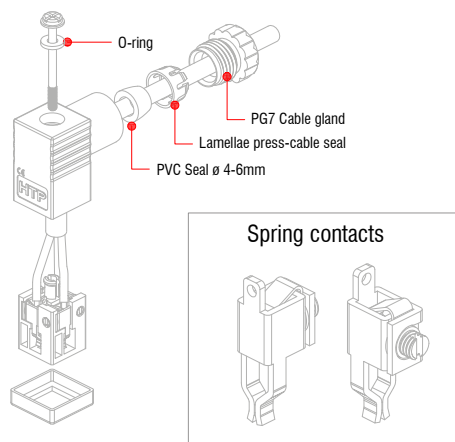
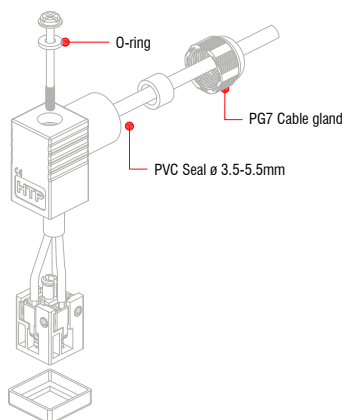
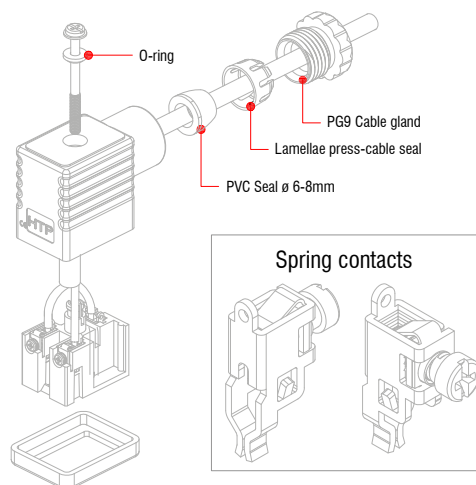
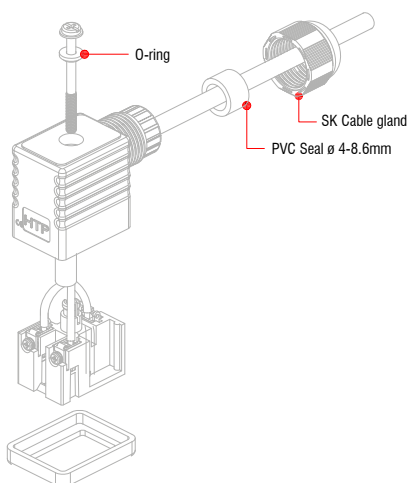
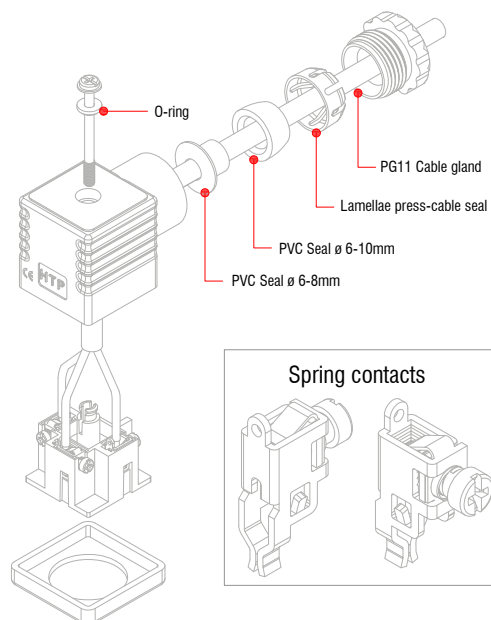
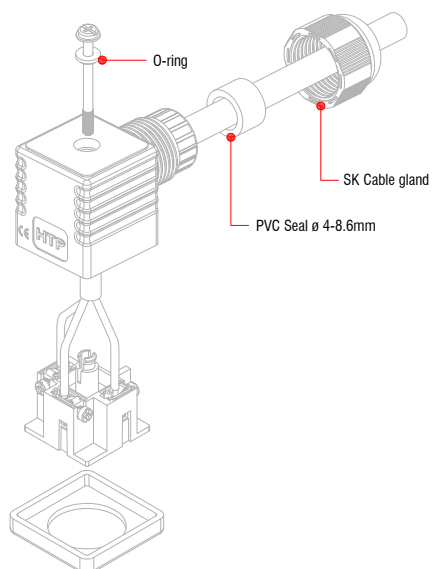
**Protection class :**  
IP 65 / 66 / 67 (assembled).

**Operating temperature :**  
-40°C +90°C Standard (with NBR gasket).  
-40°C +125°C Standard (Black with Silicone gasket).  
-20°C +85°C ATEX approved.  
-40°C +65°C (Transparent or Black) ULapproved(-UL).  
-40°C +90°C (Black) ULapproved (-UL1).  
-40°C +120°C (Black) ULapproved (-UL4).

**Nominal current :**  
G1-G4-M1-M2 series: 10A.  
P1-P2 series: 6A.

**Max contact current :**  
G1-G4-M1-M2 series: 16A  
P1-P2 series: 10A.  
G1-G4-M1-M2 ATEX series: 10A\*  
P1-P2 series: 6A\*.  
\*Max current permanent ammissible  
for one contacts pair.

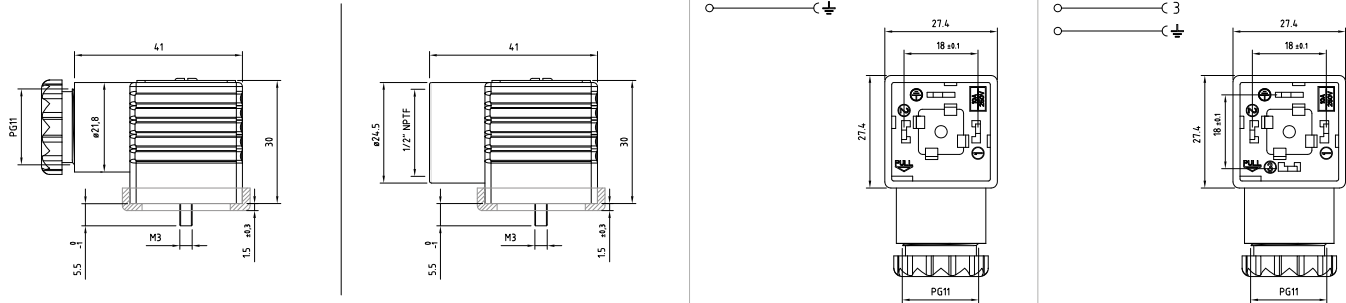








#### Technical drawing

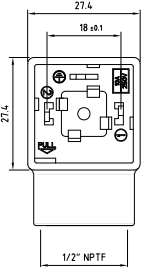
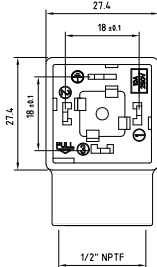
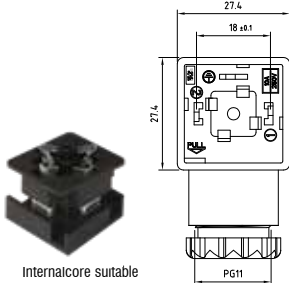
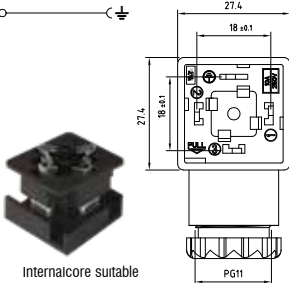


#### Product description

|                                  |                                                                                                 |                                                                                                 |
|----------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| Connector type                   | DIN valve connectors                                                                            | DIN valve connectors                                                                            |
| Conforms to                      | EN175301-803                                                                                    | EN175301-803                                                                                    |
| Construction type                | A                                                                                               | A                                                                                               |
| Part number                      | <b>G1NU2000</b>                                                                                 | <b>G1NU3000</b>                                                                                 |
| Description                      | Square connector G1 series complete with gasket and fixing screw. Connector without electronic. | Square connector G1 series complete with gasket and fixing screw. Connector without electronic. |
| Contacts spacing                 | 18mm                                                                                            | 18mm                                                                                            |
| Number of contacts               | 2poles + P.E.                                                                                   | 3poles + P.E.                                                                                   |
| Earth positioning                | H.12 (turnable)                                                                                 | H.12 (turnable)                                                                                 |
| Housing colour                   | Black                                                                                           | Black                                                                                           |
| Housing height                   | 30mm                                                                                            | 30mm                                                                                            |
| Cable gland                      | PG11                                                                                            | PG11                                                                                            |
| Gasket type                      | Profiled NBR gasket                                                                             | Profiled NBR gasket                                                                             |
| <b>Technical data</b>            |                                                                                                 |                                                                                                 |
| Type of termination              | Screw contacts                                                                                  | Screw contacts                                                                                  |
| Contact screw torque             | 0.5 N*m                                                                                         | 0.5 N*m                                                                                         |
| Rated voltage                    | 250V AC/ 300VDC                                                                                 | 250V AC/ 300VDC                                                                                 |
| Circuit type                     | -                                                                                               | -                                                                                               |
| Led colour                       | -                                                                                               | -                                                                                               |
| Suitable cable                   | Ø cable 6-10mm                                                                                  | Ø cable 6-10mm                                                                                  |
| Central fixing screw             | M3 L=32.5mm                                                                                     | M3 L=32.5mm                                                                                     |
| Central fixing screw material    | Iron+Zinc plated                                                                                | Iron+Zinc plated                                                                                |
| Central screw torque             | 0.5 N*m                                                                                         | 0.5 N*m                                                                                         |
| <b>Packaging</b>                 |                                                                                                 |                                                                                                 |
| Qty/Box                          | 50pcs / box                                                                                     | 50pcs / box                                                                                     |
| <b>Other accessories options</b> |                                                                                                 |                                                                                                 |
| See accessories section          |                                                                                                 |                                                                                                 |
| <b>Notes:</b>                    |                                                                                                 |                                                                                                 |
|                                  | Connector with Grey Housing: P/N G1GU2000                                                       | Connector with Grey Housing: P/N G1GU3000                                                       |

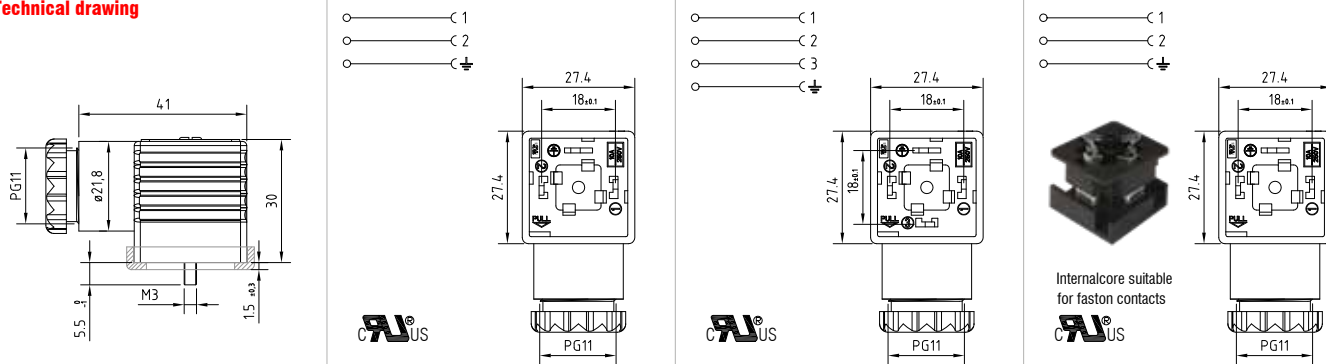




|                                                                                                                    |                                                                                                                    |                                                                                                                       |                                                                                                                       |
|--------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
|                                   |                                   |                                     |                                    |
| <b>Product description</b>                                                                                         |                                                                                                                    |                                                                                                                       |                                                                                                                       |
| DIN valve connectors                                                                                               | DIN valve connectors                                                                                               | DIN valve connectors                                                                                                  | DIN valve connectors                                                                                                  |
| EN175301-803                                                                                                       | EN175301-803                                                                                                       | EN175301-803                                                                                                          | EN175301-803                                                                                                          |
| A                                                                                                                  | A                                                                                                                  | A                                                                                                                     | A                                                                                                                     |
| <b>G1NF2000</b><br>Square connector G1 series complete with gasket and fixing screw. Connector without electronic. | <b>G1NF3000</b><br>Square connector G1 series complete with gasket and fixing screw. Connector without electronic. | <b>G1FNU2000</b><br>Square connector G1F series, complete with gasket and fixing screw. Connector without electronic. | <b>G1FNU3000</b><br>Square connector G1F series, complete with gasket and fixing screw. Connector without electronic. |
| 18mm                                                                                                               | 18mm                                                                                                               | 18mm                                                                                                                  | 18mm                                                                                                                  |
| 2poles + P.E.                                                                                                      | 3poles + P.E.                                                                                                      | 2poles + P.E.                                                                                                         | 3poles + P.E.                                                                                                         |
| H.12 (turnable)                                                                                                    | H.12 (turnable)                                                                                                    | H.12 (turnable)                                                                                                       | H.12 (turnable)                                                                                                       |
| Black                                                                                                              | Black                                                                                                              | Black                                                                                                                 | Black                                                                                                                 |
| 30mm                                                                                                               | 30mm                                                                                                               | 30mm                                                                                                                  | 30mm                                                                                                                  |
| 1/2" NPTF                                                                                                          | 1/2" NPTF                                                                                                          | PG11                                                                                                                  | PG11                                                                                                                  |
| Profiled NBR gasket                                                                                                | Profiled NBR gasket                                                                                                | Profiled NBR gasket                                                                                                   | Profiled NBR gasket                                                                                                   |
| <b>Technical data</b>                                                                                              |                                                                                                                    |                                                                                                                       |                                                                                                                       |
| Screw contacts                                                                                                     | Screw contacts                                                                                                     | Female Faston contacts 6.3 x 0.8mm                                                                                    | Female Faston contacts 6.3 x 0.8mm                                                                                    |
| 0.5 N*m                                                                                                            | 0.5 N*m                                                                                                            | -                                                                                                                     | -                                                                                                                     |
| 250V AC/ 300VDC                                                                                                    | 250V AC/ 300VDC                                                                                                    | 250V AC/ 300VDC                                                                                                       | 250V AC/ 300VDC                                                                                                       |
| -                                                                                                                  | -                                                                                                                  | -                                                                                                                     | -                                                                                                                     |
| -                                                                                                                  | -                                                                                                                  | -                                                                                                                     | -                                                                                                                     |
| ø cable 8-10mm                                                                                                     | ø cable 8-10mm                                                                                                     | ø cable 6-10mm                                                                                                        | ø cable 6-10mm                                                                                                        |
| M3 L=32.5mm                                                                                                        | M3 L=32.5mm                                                                                                        | M3 L=32.5mm                                                                                                           | M3 L=32.5mm                                                                                                           |
| Iron + Zinc plated                                                                                                 | Iron + Zinc plated                                                                                                 | Iron + Zinc plated                                                                                                    | Iron + Zinc plated                                                                                                    |
| 0.5 N*m                                                                                                            | 0.5 N*m                                                                                                            | <b>0.5 N*m</b>                                                                                                        | 0.5 N*m                                                                                                               |
| <b>Packaging</b>                                                                                                   |                                                                                                                    |                                                                                                                       |                                                                                                                       |
| 50pcs / box                                                                                                        | 50pcs / box                                                                                                        | 50pcs / box                                                                                                           | 50pcs / box                                                                                                           |
| <b>Other accessories options</b>                                                                                   |                                                                                                                    |                                                                                                                       |                                                                                                                       |
| See accessories section                                                                                            |                                                                                                                    |                                                                                                                       |                                                                                                                       |
| <b>Notes:</b>                                                                                                      |                                                                                                                    |                                                                                                                       |                                                                                                                       |
| Connector with Grey Housing: P/N G1GF2000<br>Connector without press-cable screw                                   | Connector with Grey Housing: P/N G1GF3000<br>Connector without press-cable screw                                   | Connector without faston contacts, the contacts must be ordered separately in reel with P/N: X-FASTON-F-6,3X0,8       | Connector without faston contacts, the contacts must be ordered separately in reel with P/N: X-FASTON-F-6,3X0,8       |



#### Technical drawing



#### Product description

|                    |                                                                                                               |                                                                                                               |                                                                                                                |
|--------------------|---------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| Connector type     | DIN valve connectors                                                                                          | DIN valve connectors                                                                                          | DIN valve connectors                                                                                           |
| Conforms to        | EN175301-803                                                                                                  | EN175301-803                                                                                                  | EN175301-803                                                                                                   |
| Construction type  | A                                                                                                             | A                                                                                                             | A                                                                                                              |
| Part number        | <b>G1NU2000-UL</b>                                                                                            | <b>G1NU3000-UL</b>                                                                                            | <b>G1FNU2000-UL</b>                                                                                            |
| Description        | Square connector G1 series, UL approved, complete with gasket and fixing screw. Connector without electronic. | Square connector G1 series, UL approved, complete with gasket and fixing screw. Connector without electronic. | Square connector G1F series, UL approved, complete with gasket and fixing screw. Connector without electronic. |
| Contacts spacing   | 18mm                                                                                                          | 18mm                                                                                                          | 18mm                                                                                                           |
| Number of contacts | 2poles + P.E.                                                                                                 | 3poles + P.E.                                                                                                 | 2poles + P.E.                                                                                                  |
| Earth positioning  | H.12 (turnable)                                                                                               | H.12 (turnable)                                                                                               | H.12 (turnable)                                                                                                |
| Housing colour     | Black                                                                                                         | Black                                                                                                         | Black                                                                                                          |
| Housing height     | 30mm                                                                                                          | 30mm                                                                                                          | 30mm                                                                                                           |
| Cable gland        | PG9/PG11 unified                                                                                              | PG9/PG11 unified                                                                                              | PG9/PG11 unified                                                                                               |
| Gasket type        | Profiled NBR gasket                                                                                           | Profiled NBR gasket                                                                                           | Profiled NBR gasket                                                                                            |

#### Technical data

|                               |                    |                    |                                    |
|-------------------------------|--------------------|--------------------|------------------------------------|
| Type of termination           | Screw contacts     | Screw contacts     | Female Faston contacts 6.3 x 0.8mm |
| Contact screw torque          | 0.5 N*m            | 0.5 N*m            | -                                  |
| Rated voltage                 | 250V AC/ 300VDC    | 250V AC/ 300VDC    | 250V AC/ 300VDC                    |
| Circuit type                  | -                  | -                  | -                                  |
| Led colour                    | -                  | -                  | -                                  |
| Suitable cable                | Ø cable 6-10mm     | Ø cable 6-10mm     | Ø cable 6-10mm                     |
| Central fixing screw          | M3 L=32.5mm        | M3 L=32.5mm        | M3 L=32.5mm                        |
| Central fixing screw material | Iron + Zinc plated | Iron + Zinc plated | Iron + Zinc plated                 |
| Central screw torque          | 0.5 N*m            | 0.5 N*m            | 0.5 N*m                            |

#### Packaging

|         |             |             |             |
|---------|-------------|-------------|-------------|
| Qty/Box | 50pcs / box | 50pcs / box | 50pcs / box |
|---------|-------------|-------------|-------------|

#### Other accessories options

See accessories section

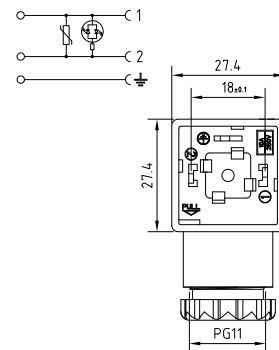
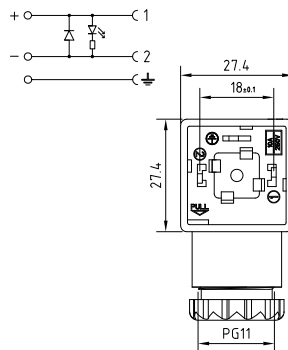
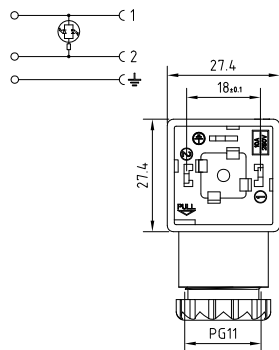
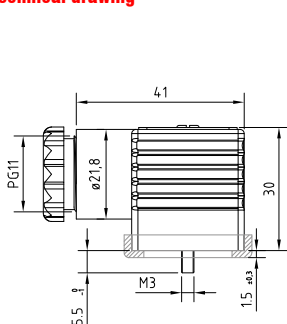
|               |                                             |                                             |                                                                                                                 |
|---------------|---------------------------------------------|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| <b>Notes:</b> | Connector available with different circuits | Connector available with different circuits | Connector without faston contacts, the contacts must be ordered separately in reel with P/N: X-FASTON-F-6,3X0,8 |
|---------------|---------------------------------------------|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------|



|                                                                                                                                      |                                                                                                                                       |                                                                                                                                       |                                                                                                                 |
|--------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| <br><br>Internalcore suitable for faston contacts<br>                                                                                | <br><br>                                                                                                                              | <br><br>                                                                                                                              | <br>                                                                                                            |
| <b>Product description</b>                                                                                                           |                                                                                                                                       |                                                                                                                                       |                                                                                                                 |
| DIN valve connectors                                                                                                                 | DIN valve connectors                                                                                                                  | DIN valve connectors                                                                                                                  | DIN valve connectors                                                                                            |
| EN175301-803                                                                                                                         | EN175301-803                                                                                                                          | EN175301-803                                                                                                                          | EN175301-803                                                                                                    |
| A                                                                                                                                    | A                                                                                                                                     | A                                                                                                                                     | A                                                                                                               |
| <b>G1FNU3000-UL</b><br>Square connector G1F series, ULapproved, complete with gasket and fixing screw. Connector without electronic. | <b>G1NU2000-ATEX</b><br>Square connector G1 series,ATEX conform, complete with gasket and fixing screw. Connector without electronic. | <b>G1NU3000-ATEX</b><br>Square connector G1 series,ATEX conform, complete with gasket and fixing screw. Connector without electronic. | <b>G1NU2D03</b><br>Square connector G1 series complete with gasket and fixing screw. Connector with electronic. |
| 18mm                                                                                                                                 | 18mm                                                                                                                                  | 18mm                                                                                                                                  | 18mm                                                                                                            |
| 3poles + P.E.                                                                                                                        | 2poles + P.E.                                                                                                                         | 3poles + P.E.                                                                                                                         | 2poles + P.E.                                                                                                   |
| H.12 (turnable)                                                                                                                      | H.12 (turnable)                                                                                                                       | H.12 (turnable)                                                                                                                       | H.12 (turnable)                                                                                                 |
| Black                                                                                                                                | Black                                                                                                                                 | Black                                                                                                                                 | Black                                                                                                           |
| 30mm                                                                                                                                 | 30mm                                                                                                                                  | 30mm                                                                                                                                  | 30mm                                                                                                            |
| PG9/PG11 unified                                                                                                                     | PG9/PG11 unified                                                                                                                      | PG9/PG11 unified                                                                                                                      | PG9/PG11 unified                                                                                                |
| Profiled NBR gasket                                                                                                                  | Flat Silicone gasket                                                                                                                  | Flat Silicone gasket                                                                                                                  | Profiled NBR gasket                                                                                             |
| <b>Technical data</b>                                                                                                                |                                                                                                                                       |                                                                                                                                       |                                                                                                                 |
| Female Faston contacts 6.3 x 0.8mm                                                                                                   | Screw contacts                                                                                                                        | Screw contacts                                                                                                                        | Screw contacts                                                                                                  |
| -                                                                                                                                    | 0.5 N*m                                                                                                                               | 0.5 N*m                                                                                                                               | 0.5 N*m                                                                                                         |
| 250V AC/ 300VDC                                                                                                                      | 230V AC/ 300VDC                                                                                                                       | 230V AC/ 300VDC                                                                                                                       | 1-230V DC                                                                                                       |
| -                                                                                                                                    | -                                                                                                                                     | -                                                                                                                                     | Diode(1A)                                                                                                       |
| -                                                                                                                                    | -                                                                                                                                     | -                                                                                                                                     | -                                                                                                               |
| ø cable 6-10mm                                                                                                                       | ø cable 6-10mm                                                                                                                        | ø cable 6-10mm                                                                                                                        | ø cable 6-10mm                                                                                                  |
| M3 L=32.5mm                                                                                                                          | M3 L=32.5mm                                                                                                                           | M3 L=32.5mm                                                                                                                           | M3 L=32.5mm                                                                                                     |
| Iron+Zinc plated                                                                                                                     | Iron+Zinc plated                                                                                                                      | Iron+Zinc plated                                                                                                                      | Iron+Zinc plated                                                                                                |
| 0.5 N*m                                                                                                                              | 0.5 N*m                                                                                                                               | 0.5 N*m                                                                                                                               | 0.5 N*m                                                                                                         |
| <b>Packaging</b>                                                                                                                     |                                                                                                                                       |                                                                                                                                       |                                                                                                                 |
| 50pcs / box                                                                                                                          | Singly packed in plastic bag                                                                                                          | Singly packed in plastic bag                                                                                                          | 50pcs / box                                                                                                     |
| <b>Other accessories options</b>                                                                                                     |                                                                                                                                       |                                                                                                                                       |                                                                                                                 |
| See accessories section                                                                                                              |                                                                                                                                       |                                                                                                                                       |                                                                                                                 |
| <b>Notes:</b><br>Connector without faston contacts, the contacts must be ordered separately in reel with P/N: X-FASTON-F-6,3X0,8     |                                                                                                                                       |                                                                                                                                       |                                                                                                                 |



#### Technical drawing



#### Product description

|                    |                                                                                              |                 |                 |                                                                                              |                 |                 |                                                                                              |                 |                 |
|--------------------|----------------------------------------------------------------------------------------------|-----------------|-----------------|----------------------------------------------------------------------------------------------|-----------------|-----------------|----------------------------------------------------------------------------------------------|-----------------|-----------------|
| Connector type     | DIN valve connectors                                                                         |                 |                 | DIN valve connectors                                                                         |                 |                 | DIN valve connectors                                                                         |                 |                 |
| Conforms to        | EN175301-803                                                                                 |                 |                 | EN175301-803                                                                                 |                 |                 | EN175301-803                                                                                 |                 |                 |
| Construction type  | A                                                                                            |                 |                 | A                                                                                            |                 |                 | A                                                                                            |                 |                 |
| Part number        | <b>G1TU2L01</b>                                                                              | <b>G1TU2L02</b> | <b>G1TU2L03</b> | <b>G1TU2DL1</b>                                                                              | <b>G1TU2DL2</b> | <b>G1TU2DL3</b> | <b>G1TU2VL1</b>                                                                              | <b>G1TU2VL2</b> | <b>G1TU2VL3</b> |
| Description        | Square connector G1 series complete with gasket and fixing screw. Connector with electronic. |                 |                 | Square connector G1 series complete with gasket and fixing screw. Connector with electronic. |                 |                 | Square connector G1 series complete with gasket and fixing screw. Connector with electronic. |                 |                 |
| Contacts spacing   | 18mm                                                                                         |                 |                 | 18mm                                                                                         |                 |                 | 18mm                                                                                         |                 |                 |
| Number of contacts | 2poles + P.E.                                                                                |                 |                 | 2poles + P.E.                                                                                |                 |                 | 2poles + P.E.                                                                                |                 |                 |
| Earth positioning  | H.12 (turnable)                                                                              |                 |                 | H.12 (turnable)                                                                              |                 |                 | H.12 (turnable)                                                                              |                 |                 |
| Housing colour     | Transparent                                                                                  |                 |                 | Transparent                                                                                  |                 |                 | Transparent                                                                                  |                 |                 |
| Housing height     | 30mm                                                                                         |                 |                 | 30mm                                                                                         |                 |                 | 30mm                                                                                         |                 |                 |
| Cable gland        | PG9/PG11 unified                                                                             |                 |                 | PG9/PG11 unified                                                                             |                 |                 | PG9/PG11 unified                                                                             |                 |                 |
| Gasket type        | Profiled NBR gasket                                                                          |                 |                 | Profiled NBR gasket                                                                          |                 |                 | Profiled NBR gasket                                                                          |                 |                 |

#### Technical data

|                               |                    |            |            |                    |         |         |                        |            |            |
|-------------------------------|--------------------|------------|------------|--------------------|---------|---------|------------------------|------------|------------|
| Type of termination           | Screw contacts     |            |            | Screw contacts     |         |         | Screw contacts         |            |            |
| Contact screw torque          | 0.5 N*m            |            |            | 0.5 N*m            |         |         | 0.5 N*m                |            |            |
| Rated voltage                 | 24V AC/DC          | 115V AC/DC | 230V AC/DC | 24V DC             | 115V DC | 230V DC | 24V AC/DC              | 115V AC/DC | 230V AC/DC |
| Circuit type                  | Bipolar Led        |            |            | Led + Diode(1A)    |         |         | Bipolar Led + Varistor |            |            |
| Led colour                    | Red                |            |            | Red                |         |         | Red                    |            |            |
| Suitable cable                | ø cable 6-10mm     |            |            | ø cable 6-10mm     |         |         | ø cable 6-10mm         |            |            |
| Central fixing screw          | M3 L=32.5mm        |            |            | M3 L=32.5mm        |         |         | M3 L=32.5mm            |            |            |
| Central fixing screw material | Iron + Zinc plated |            |            | Iron + Zinc plated |         |         | Iron + Zinc plated     |            |            |
| Central screw torque          | 0.5 N*m            |            |            | 0.5 N*m            |         |         | 0.5 N*m                |            |            |

#### Packaging

|         |             |             |             |
|---------|-------------|-------------|-------------|
| Qty/Box | 50pcs / box | 50pcs / box | 50pcs / box |
|---------|-------------|-------------|-------------|

#### Other accessories options

See accessories section

#### Notes:

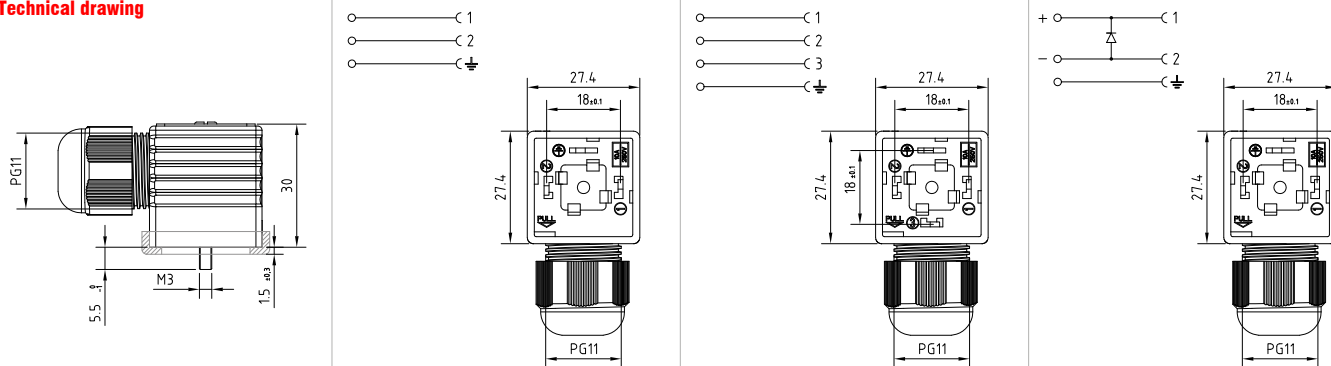
Connector available with different led colour



|                                                                                              |                                                                                              |                                                                                              |                                                                                                                                     |
|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                              |                                                                                              |                                                                                              |                                                                                                                                     |
| <b>Product description</b>                                                                   | <b>Product description</b>                                                                   | <b>Product description</b>                                                                   | <b>Product description</b>                                                                                                          |
| DIN valve connectors                                                                         | DIN valve connectors                                                                         | DIN valve connectors                                                                         | DIN valve connectors                                                                                                                |
| EN175301-803                                                                                 | EN175301-803                                                                                 | EN175301-803                                                                                 | EN175301-803                                                                                                                        |
| A                                                                                            | A                                                                                            | A                                                                                            | A                                                                                                                                   |
| <b>G1NU2R03</b>                                                                              | <b>G1NU2RV1   G1NU2RV2   G1NU2RV3</b>                                                        | <b>G1TU2RL1   G1TU2RL2   G1TU2RL3</b>                                                        | <b>G1TU3Q01   G1TU3Q02   G1TU3Q03</b>                                                                                               |
| Square connector G1 series complete with gasket and fixing screw. Connector with electronic. | Square connector G1 series complete with gasket and fixing screw. Connector with electronic. | Square connector G1 series complete with gasket and fixing screw. Connector with electronic. | Square connector G1 series complete with gasket and fixing screw. Connector with electronic.                                        |
| 18mm                                                                                         | 18mm                                                                                         | 18mm                                                                                         | 18mm                                                                                                                                |
| 2poles + P.E.                                                                                | 2poles + P.E.                                                                                | 2poles + P.E.                                                                                | 3poles + P.E.                                                                                                                       |
| H.12 (turnable)                                                                              | H.12 (turnable)                                                                              | H.12 (turnable)                                                                              | H.12 (turnable)                                                                                                                     |
| Black                                                                                        | Black                                                                                        | Transparent                                                                                  | Transparent                                                                                                                         |
| 30mm                                                                                         | 30mm                                                                                         | 30mm                                                                                         | 30mm                                                                                                                                |
| PG9/PG11 unified                                                                             | PG9/PG11 unified                                                                             | PG9/PG11 unified                                                                             | PG9/PG11 unified                                                                                                                    |
| Profiled NBR gasket                                                                          | Profiled NBR gasket                                                                          | Profiled NBR gasket                                                                          | Profiled NBR gasket                                                                                                                 |
| <b>Technical data</b>                                                                        | <b>Technical data</b>                                                                        | <b>Technical data</b>                                                                        | <b>Technical data</b>                                                                                                               |
| Screw contacts                                                                               | Screw contacts                                                                               | Screw contacts                                                                               | Screw contacts                                                                                                                      |
| 0.5 N*m                                                                                      | 0.5 N*m                                                                                      | 0.5 N*m                                                                                      | 0.5 N*m                                                                                                                             |
| 1-230V AC                                                                                    | 24V AC   115V AC   230V AC                                                                   | 24V AC   115V AC   230V AC                                                                   | 24V DC   115V DC   230V DC                                                                                                          |
| Full-Wave Bridge Rectifier (1A)                                                              | Full-Wave Bridge Rectifier + Varistor                                                        | Full-Wave Bridge Rectifier + Varistor + Led                                                  | Bicolour Led + no.2 Diodes (1A)                                                                                                     |
| -                                                                                            | -                                                                                            | Red                                                                                          | Red (pin 2) ; Green (pin3)                                                                                                          |
| ø cable 6-10mm                                                                               | ø cable 6-10mm                                                                               | ø cable 6-10mm                                                                               | ø cable 6-10mm                                                                                                                      |
| M3 L=32.5mm                                                                                  | M3 L=32.5mm                                                                                  | M3 L=32.5mm                                                                                  | M3 L=32.5mm                                                                                                                         |
| Iron+Zinc plated                                                                             | Iron+Zinc plated                                                                             | Iron+Zinc plated                                                                             | Iron+Zinc plated                                                                                                                    |
| 0.5 N*m                                                                                      | 0.5 N*m                                                                                      | 0.5 N*m                                                                                      | 0.5 N*m                                                                                                                             |
| <b>Packaging</b>                                                                             | <b>Packaging</b>                                                                             | <b>Packaging</b>                                                                             | <b>Packaging</b>                                                                                                                    |
| 50pcs / box                                                                                  | 50pcs / box                                                                                  | 50pcs / box                                                                                  | 50pcs / box                                                                                                                         |
| <b>Other accessories options</b>                                                             | <b>Other accessories options</b>                                                             | <b>Other accessories options</b>                                                             | <b>Other accessories options</b>                                                                                                    |
| See accessories section                                                                      | See accessories section                                                                      | See accessories section                                                                      | See accessories section                                                                                                             |
| <b>Notes:</b>                                                                                |                                                                                              | Connector available with different led colour                                                | Connector available with different led connection:<br>Q8 circuit (Green pin 2; Red pin 3)<br>Q1 circuit (Yellow pin 2; Green pin 3) |



#### Technical drawing



#### Product description

|                    |                                                                                                                |                                                                                                                |                                                                                                             |
|--------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Connector type     | DIN valve connectors                                                                                           | DIN valve connectors                                                                                           | DIN valve connectors                                                                                        |
| Conforms to        | EN175301-803                                                                                                   | EN175301-803                                                                                                   | EN175301-803                                                                                                |
| Construction type  | A                                                                                                              | A                                                                                                              | A                                                                                                           |
| Part number        | <b>G1NU2000-SK</b>                                                                                             | <b>G1NU3000-SK</b>                                                                                             | <b>G1NU2D03-SK</b>                                                                                          |
| Description        | Square connector G1 series,SK cable exit, complete with gasket and fixing screw. Connector without electronic. | Square connector G1 series,SK cable exit, complete with gasket and fixing screw. Connector without electronic. | Square connector G1 series,SK cable exit, complete with gasket and fixing screw. Connector with electronic. |
| Contacts spacing   | 18mm                                                                                                           | 18mm                                                                                                           | 18mm                                                                                                        |
| Number of contacts | 2poles + P.E.                                                                                                  | 3poles + P.E.                                                                                                  | 2poles + P.E.                                                                                               |
| Earth positioning  | H.12 (turnable)                                                                                                | H.12 (turnable)                                                                                                | H.12 (turnable)                                                                                             |
| Housing colour     | Black                                                                                                          | Black                                                                                                          | Black                                                                                                       |
| Housing height     | 30mm                                                                                                           | 30mm                                                                                                           | 30mm                                                                                                        |
| Cable gland        | SK- PG11                                                                                                       | SK- PG11                                                                                                       | SK- PG11                                                                                                    |
| Gasket type        | Profiled NBR gasket                                                                                            | Profiled NBR gasket                                                                                            | Profiled NBR gasket                                                                                         |

#### Technical data

|                               |                    |                    |                    |
|-------------------------------|--------------------|--------------------|--------------------|
| Type of termination           | Screw contacts     | Screw contacts     | Screw contacts     |
| Contact screw torque          | 0.5 N*m            | 0.5 N*m            | 0.5 N*m            |
| Rated voltage                 | 250V AC/ 300VDC    | 250V AC/ 300VDC    | 1-230V DC          |
| Circuit type                  | -                  | -                  | Diode(1A)          |
| Led colour                    | -                  | -                  | -                  |
| Suitable cable                | Ø cable 4-8.6mm    | Ø cable 4-8.6mm    | Ø cable 4-8.6mm    |
| Central fixing screw          | M3 L=32.5mm        | M3 L=32.5mm        | M3 L=32.5mm        |
| Central fixing screw material | Iron + Zinc plated | Iron + Zinc plated | Iron + Zinc plated |
| Central screw torque          | 0.5 N*m            | 0.5 N*m            | 0.5 N*m            |

#### Packaging

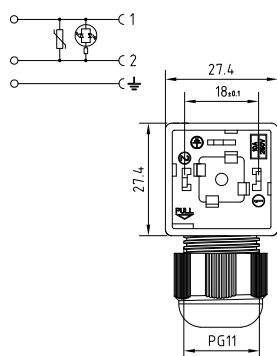
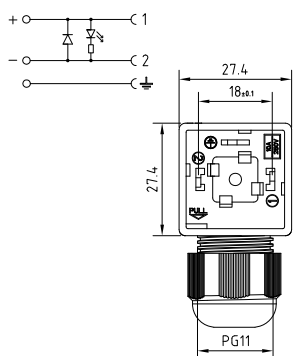
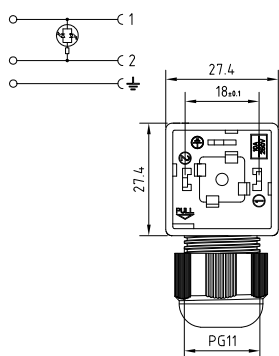
|         |             |             |             |
|---------|-------------|-------------|-------------|
| Qty/Box | 50pcs / box | 50pcs / box | 50pcs / box |
|---------|-------------|-------------|-------------|

#### Other accessories options

See accessories section

#### Notes:





#### Product description

|                                                                                                             |                                                                                                             |                                                                                                             |  |
|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|--|
| DIN valve connectors                                                                                        | DIN valve connectors                                                                                        | DIN valve connectors                                                                                        |  |
| EN175301-803                                                                                                | EN175301-803                                                                                                | EN175301-803                                                                                                |  |
| A                                                                                                           | A                                                                                                           | A                                                                                                           |  |
| <b>G1TU2L01-SK G1TU2L02-SK G1TU2L03-SK</b>                                                                  | <b>G1TU2DL1-SK G1TU2DL2-SK G1TU2DL3-SK</b>                                                                  | <b>G1TU2VL1-SK G1TU2VL2-SK G1TU2VL3-SK</b>                                                                  |  |
| Square connector G1 series,SK cable exit, complete with gasket and fixing screw. Connector with electronic. | Square connector G1 series,SK cable exit, complete with gasket and fixing screw. Connector with electronic. | Square connector G1 series,SK cable exit, complete with gasket and fixing screw. Connector with electronic. |  |
| 18mm                                                                                                        | 18mm                                                                                                        | 18mm                                                                                                        |  |
| 2poles + P.E.                                                                                               | 2poles + P.E.                                                                                               | 2poles + P.E.                                                                                               |  |
| H.12 (turnable)                                                                                             | H.12 (turnable)                                                                                             | H.12 (turnable)                                                                                             |  |
| Transparent                                                                                                 | Transparent                                                                                                 | Transparent                                                                                                 |  |
| 30mm                                                                                                        | 30mm                                                                                                        | 30mm                                                                                                        |  |
| SK- PG11                                                                                                    | SK- PG11                                                                                                    | SK- PG11                                                                                                    |  |
| Profiled NBR gasket                                                                                         | Profiled NBR gasket                                                                                         | Profiled NBR gasket                                                                                         |  |

#### Technical data

|                                 |                        |                                 |  |
|---------------------------------|------------------------|---------------------------------|--|
| Screw contacts                  | Screw contacts         | Screw contacts                  |  |
| 0.5 N*m                         | 0.5 N*m                | 0.5 N*m                         |  |
| 24V AC/DC 115V AC/DC 230V AC/DC | 24V DC 115V DC 230V DC | 24V AC/DC 115V AC/DC 230V AC/DC |  |
| Bipolar Led                     | Led + Diode(1A)        | Bipolar Led + Varistor          |  |
| Red                             | Red                    | Red                             |  |
| ø cable 4-8.6mm                 | ø cable 4-8.6mm        | ø cable 4-8.6mm                 |  |
| M3 L=32.5mm                     | M3 L=32.5mm            | M3 L=32.5mm                     |  |
| Iron + Zinc plated              | Iron + Zinc plated     | Iron + Zinc plated              |  |
| 0.5 N*m                         | 0.5 N*m                | 0.5 N*m                         |  |

#### Packaging

|             |             |             |  |
|-------------|-------------|-------------|--|
| 50pcs / box | 50pcs / box | 50pcs / box |  |
|-------------|-------------|-------------|--|

#### Other accessories options

See accessories section

#### Notes:

Connector available with different led colour



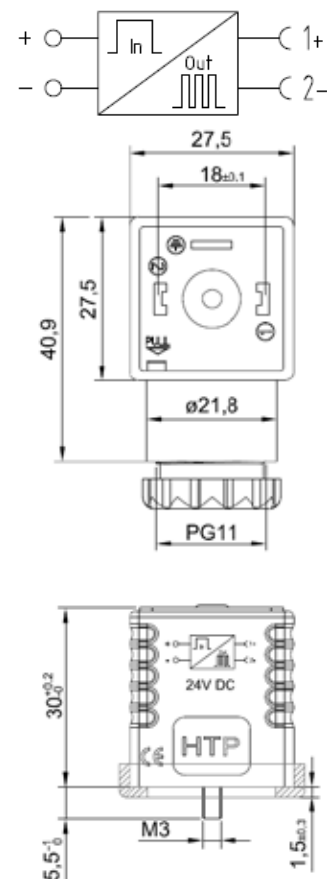
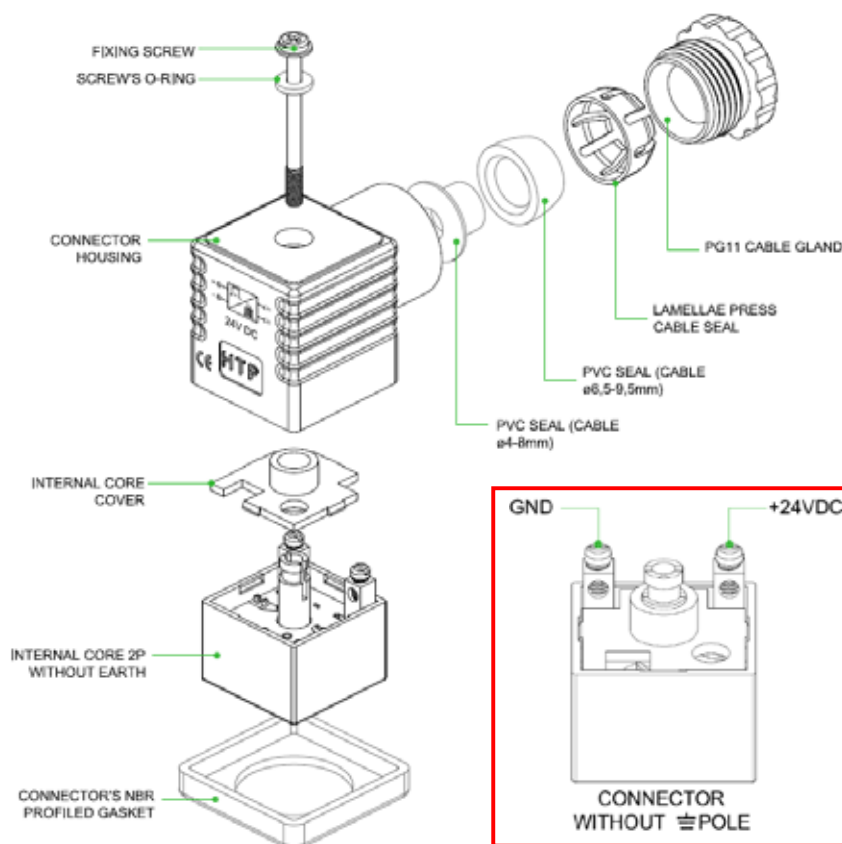
## GENERAL SPECIFICATIONS

THE FOLLOWING FEATURES REFER TO THE PARTS CURRENTLY IN PRODUCTION OR TO THE PARTS WHOSE PRODUCTION HAS ALREADY BEEN FINALIZED. USED OR MAXIMUM POWER OR PERCENTAGE OF REDUCTION AS WELL AS "BOOST" TIMINGS OR OTHER FEATURES

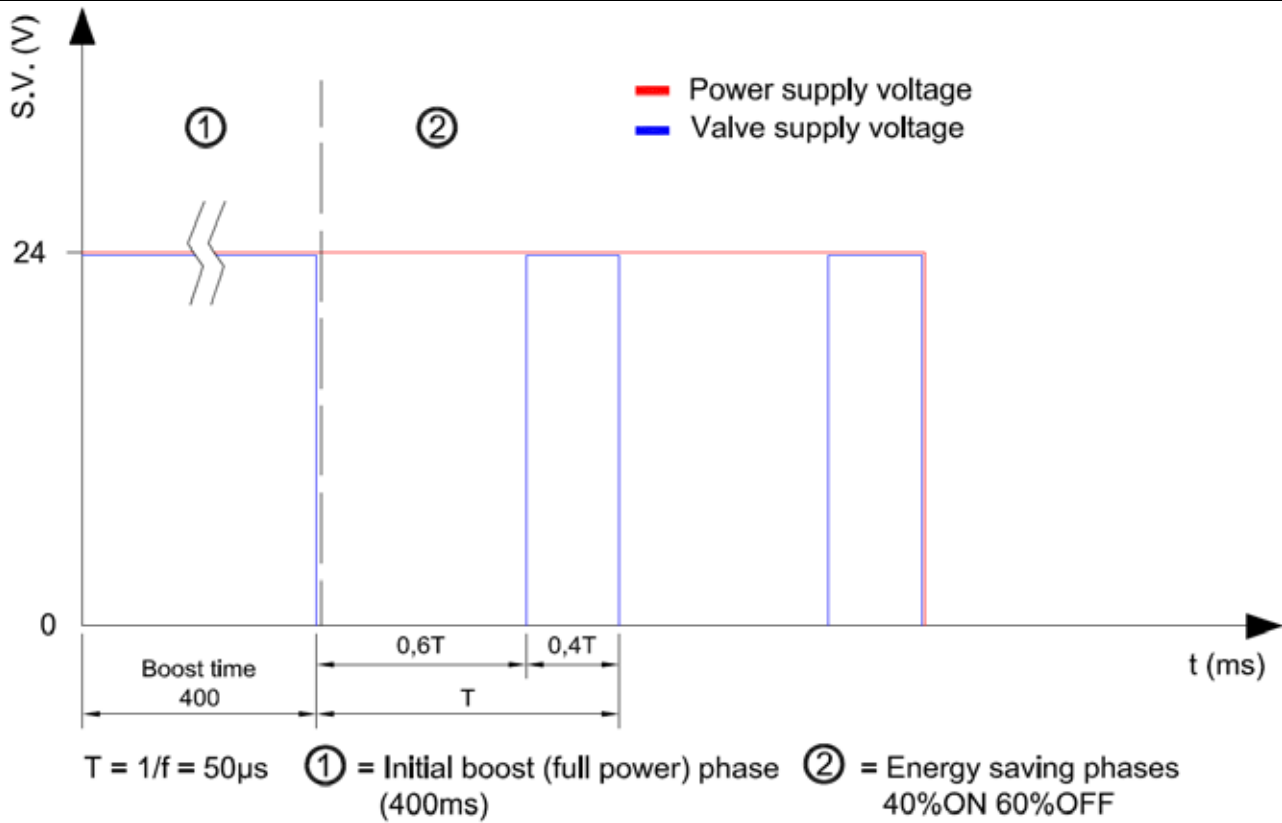
## ELECTRICAL FEATURES

|                             |                      |
|-----------------------------|----------------------|
| OPERATING VOLTAGE           | 24 V DC              |
| ENERGY SAVING ON VALVE      | 60% OF NOMINAL POWER |
| MAX POWER TO VALVE          | 48 W                 |
| POWER PARTIALIZED PHASE     | 40% MAX POWER        |
| MAX CURRENT                 | 2 A                  |
| BOOST TIME                  | 400 ms               |
| PWM WORKING FREQUENCY       | 20 KHz               |
| CONNECTOR TEMPERATURE RANGE | -40 °C +90 °C        |

## CONNECTOR DRAWING



## SUPPLY VOLTAGE CHART



## ELECTRICAL PROTECTION

- NO OVERVOLTAGE GENERATION ON SUPPLY LINE
- PROTECTED AGAINST INCORRECT POLARITY CONNECTION

## ADVANTAGES OF ENERGY SAVING

- REDUCTION BY 60% OF ENERGY CONSUMPTION
- REDUCTION BY 60% OF VALVE'S WORKING TIME
- EXTENTION OF VALVE'S LIFE

## EXAMPLE OF ENERGY SAVING USING

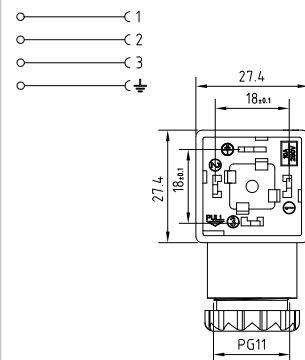
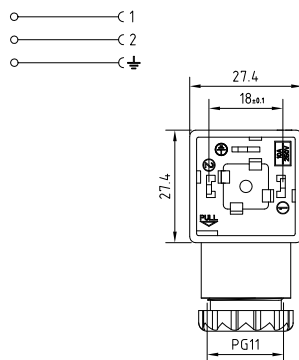
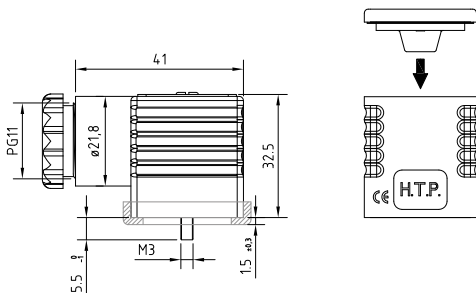
- AMBIENT TEMPERATURE = 20 °C
- TEMPERATURE INSIDE VALVE AFTER 30 SECONDS WITH STANDARD CONNECTOR BOARD = 132 °C
- TEMPERATURE INSIDE VALVE AFTER 60 SECONDS WITH ENERGY SAVING CONNECTOR = 75 °C

## EMC TEST

- THE PRODUCT SUCCEED THE EMC TESTS (REFERS TO *DIRECTIVE 2014/30/EU*)



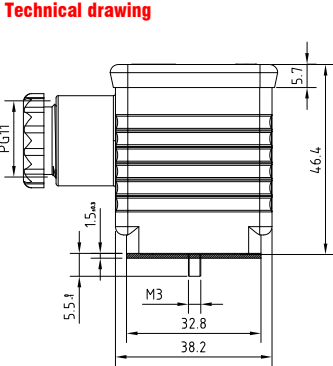
#### Technical drawing



#### Product description

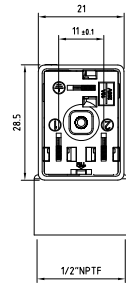
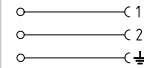
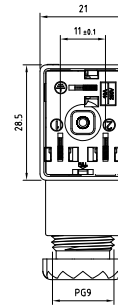
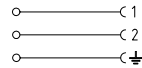
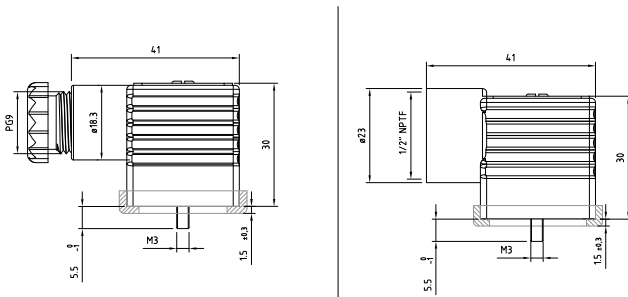
|                                  |                                                                                                  |                                                                                                  |
|----------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| Connector type                   | DIN valve connectors                                                                             | DIN valve connectors                                                                             |
| Conforms to                      | EN175301-803                                                                                     | EN175301-803                                                                                     |
| Construction type                | A                                                                                                | A                                                                                                |
| Part number                      | <b>G1CNU2000</b>                                                                                 | <b>G1CNU3000</b>                                                                                 |
| Description                      | Square connector G1C series complete with gasket and fixing screw. Connector without electronic. | Square connector G1C series complete with gasket and fixing screw. Connector without electronic. |
| Contacts spacing                 | 18mm                                                                                             | 18mm                                                                                             |
| Number of contacts               | 2poles + P.E.                                                                                    | 3poles + P.E.                                                                                    |
| Earth positioning                | H.12 (turnable)                                                                                  | H.12 (turnable)                                                                                  |
| Housing colour                   | Black                                                                                            | Black                                                                                            |
| Housing height                   | 32.5mm                                                                                           | 32.5mm                                                                                           |
| Cable gland                      | PG9/PG11 unified                                                                                 | PG9/PG11 unified                                                                                 |
| Gasket type                      | Profiled NBR gasket                                                                              | Profiled NBR gasket                                                                              |
| <b>Technical data</b>            |                                                                                                  |                                                                                                  |
| Type of termination              | Screw contacts                                                                                   | Screw contacts                                                                                   |
| Contact screw torque             | 0.5 N*m                                                                                          | 0.5 N*m                                                                                          |
| Rated voltage                    | 250 AC/ 300V DC                                                                                  | 250 AC/ 300V DC                                                                                  |
| Circuit type                     | -                                                                                                | -                                                                                                |
| Led colour                       | -                                                                                                | -                                                                                                |
| Suitable cable                   | ø cable 6-10mm                                                                                   | ø cable 6-10mm                                                                                   |
| Central fixing screw             | M3 L=35.4mm                                                                                      | M3 L=35.4mm                                                                                      |
| Central fixing screw material    | Iron + Zinc plated                                                                               | Iron + Zinc plated                                                                               |
| Central screw torque             | 0.5 N*m                                                                                          | 0.5 N*m                                                                                          |
| <b>Packaging</b>                 |                                                                                                  |                                                                                                  |
| Qty/Box                          | 50pcs in box                                                                                     | 50pcs in box                                                                                     |
| <b>Other accessories options</b> |                                                                                                  |                                                                                                  |
| See accessories section          |                                                                                                  |                                                                                                  |
| <b>Notes:</b>                    |                                                                                                  |                                                                                                  |
|                                  | Connector available with different circuits.                                                     | Connector available with different circuits.                                                     |



|                                                                                   |  |  |  |
|-----------------------------------------------------------------------------------|--|--|--|
| <b>Technical drawing</b>                                                          |  |  |  |
|  |  |  |  |



#### Technical drawing

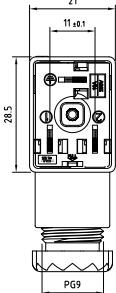
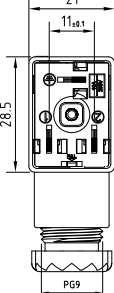
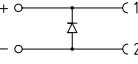
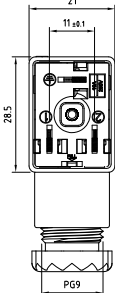
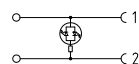
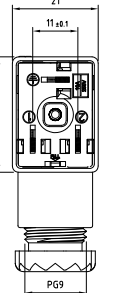


#### Product description

|                                  |                                                                                                      |                                                                                                      |
|----------------------------------|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| Connector type                   | DIN valve connectors                                                                                 | DIN valve connectors                                                                                 |
| Conforms to                      | Industrial                                                                                           | Industrial                                                                                           |
| Construction type                | B                                                                                                    | B                                                                                                    |
| Part number                      | <b>M1NS2000</b>                                                                                      | <b>M1NF2000</b>                                                                                      |
| Description                      | Rectangular connector M1 series complete with gasket and fixing screw. Connector without electronic. | Rectangular connector M1 series complete with gasket and fixing screw. Connector without electronic. |
| Contacts spacing                 | 11mm                                                                                                 | 11mm                                                                                                 |
| Number of contacts               | 2poles + P.E.                                                                                        | 2poles + P.E.                                                                                        |
| Earth positioning                | H.12 (turnable)                                                                                      | H.12 (turnable)                                                                                      |
| Housing colour                   | Black                                                                                                | Black                                                                                                |
| Housing height                   | 30mm                                                                                                 | 30mm                                                                                                 |
| Cable gland                      | PG9                                                                                                  | 1/2" NPTF                                                                                            |
| Gasket type                      | Profiled NBR gasket                                                                                  | Profiled NBR gasket                                                                                  |
| <b>Technical data</b>            |                                                                                                      |                                                                                                      |
| Type of termination              | Screw contacts                                                                                       | Screw contacts                                                                                       |
| Contact screw torque             | 0.5 N*m                                                                                              | 0.5 N*m                                                                                              |
| Rated voltage                    | 250V AC/ 300VDC                                                                                      | 250V AC/ 300VDC                                                                                      |
| Circuit type                     | -                                                                                                    | -                                                                                                    |
| Led colour                       | -                                                                                                    | -                                                                                                    |
| Suitable cable                   | Ø cable 6-8mm                                                                                        | Ø cable 8-10mm                                                                                       |
| Central fixing screw             | M3 L=32.5mm                                                                                          | M3 L=32.5mm                                                                                          |
| Central fixing screw material    | Iron + Zinc plated                                                                                   | Iron + Zinc plated                                                                                   |
| Central screw torque             | 0.5 N*m                                                                                              | 0.5 N*m                                                                                              |
| <b>Packaging</b>                 |                                                                                                      |                                                                                                      |
| Qty/Box                          | 50pcs / box                                                                                          | 50pcs / box                                                                                          |
| <b>Other accessories options</b> |                                                                                                      |                                                                                                      |
| See accessories section          |                                                                                                      |                                                                                                      |
| <b>Notes:</b>                    |                                                                                                      |                                                                                                      |
|                                  | Connector with Grey Housing: P/N M1GS2000                                                            | Connector with Grey Housing: P/N M1GF2000<br>Connector without press-cable screw                     |

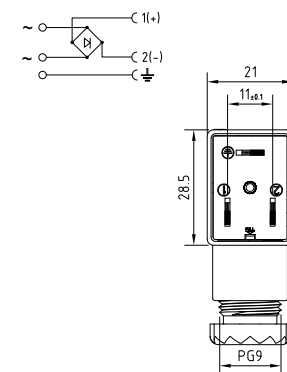
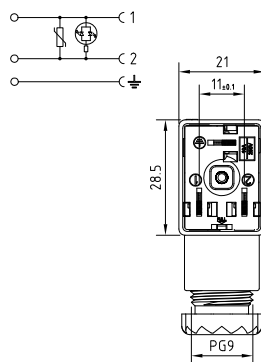
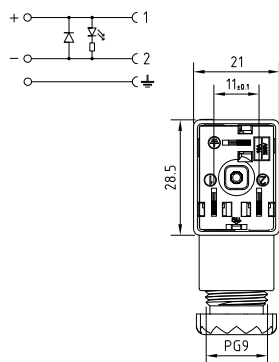
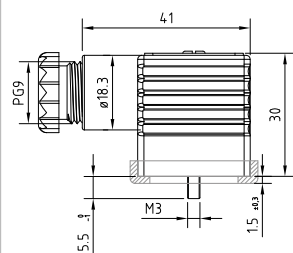




|                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                       |                                                                                                                                                                       |                                                                                                                                                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |    |   |   |
| <b>Product description</b>                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                       |                                                                                                                                                                       |                                                                                                                                                                         |
| DIN valve connectors                                                                                                                                                                                                                                  | DIN valve connectors                                                                                                                                                                                                                                  | DIN valve connectors                                                                                                                                                  | DIN valve connectors                                                                                                                                                    |
| Industrial                                                                                                                                                                                                                                            | Industrial                                                                                                                                                                                                                                            | Industrial                                                                                                                                                            | Industrial                                                                                                                                                              |
| B                                                                                                                                                                                                                                                     | B                                                                                                                                                                                                                                                     | B                                                                                                                                                                     | B                                                                                                                                                                       |
| <b>M1NS2000-UL</b>                                                                                                                                                                                                                                    | <b>M1NS2000-ATEX</b>                                                                                                                                                                                                                                  | <b>M1NS2D03</b>                                                                                                                                                       | <b>M1TS2L01</b> <b>M1TS2L02</b> <b>M1TS2L03</b>                                                                                                                         |
| Rectangular connector M1 series, UL approved, complete with gasket and fixing screw. Connector without electronic.                                                                                                                                    | Rectangular connector M1 series, ATEX conform, complete with gasket and fixing screw. Connector without electronic.                                                                                                                                   | Rectangular connector M1 series complete with gasket and fixing screw. Connector with electronic.                                                                     | Rectangular connector M1 series complete with gasket and fixing screw. Connector with electronic.                                                                       |
| 11mm                                                                                                                                                                                                                                                  | 11mm                                                                                                                                                                                                                                                  | 11mm                                                                                                                                                                  | 11mm                                                                                                                                                                    |
| 2poles + P.E.                                                                                                                                                                                                                                         | 2poles + P.E.                                                                                                                                                                                                                                         | 2poles + P.E.                                                                                                                                                         | 2poles + P.E.                                                                                                                                                           |
| H.12 (turnable)                                                                                                                                                                                                                                       | H.12 (turnable)                                                                                                                                                                                                                                       | H.12 (turnable)                                                                                                                                                       | H.12 (turnable)                                                                                                                                                         |
| Black                                                                                                                                                                                                                                                 | Black                                                                                                                                                                                                                                                 | Black                                                                                                                                                                 | Transparent                                                                                                                                                             |
| 30mm                                                                                                                                                                                                                                                  | 30mm                                                                                                                                                                                                                                                  | 30mm                                                                                                                                                                  | 30mm                                                                                                                                                                    |
| PG9                                                                                                                                                                                                                                                   | PG9                                                                                                                                                                                                                                                   | PG9                                                                                                                                                                   | PG9                                                                                                                                                                     |
| Profiled NBR gasket                                                                                                                                                                                                                                   | Flat Silicone gasket                                                                                                                                                                                                                                  | Profiled NBR gasket                                                                                                                                                   | Profiled NBR gasket                                                                                                                                                     |
| <b>Technical data</b>                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                       |                                                                                                                                                                       |                                                                                                                                                                         |
| Screw contacts                                                                                                                                                                                                                                        | Screw contacts                                                                                                                                                                                                                                        | Screw contacts                                                                                                                                                        | Screw contacts                                                                                                                                                          |
| 0.5 N*m                                                                                                                                                                                                                                               | 0.5 N*m                                                                                                                                                                                                                                               | 0.5 N*m                                                                                                                                                               | 0.5 N*m                                                                                                                                                                 |
| 250V AC/ 300VDC                                                                                                                                                                                                                                       | 230V AC/ 300VDC                                                                                                                                                                                                                                       | 1-230V DC                                                                                                                                                             | 24V AC/DC 115V AC/DC 230V AC/DC                                                                                                                                         |
| -                                                                                                                                                                                                                                                     | -                                                                                                                                                                                                                                                     | Diode(1A)                                                                                                                                                             | Bipolar Led                                                                                                                                                             |
| -                                                                                                                                                                                                                                                     | -                                                                                                                                                                                                                                                     | -                                                                                                                                                                     | Red                                                                                                                                                                     |
| ø cable 6-8mm                                                                                                                                                                                                                                         | ø cable 6-8mm                                                                                                                                                                                                                                         | ø cable 6-8mm                                                                                                                                                         | ø cable 6-8mm                                                                                                                                                           |
| M3 L=32.5mm                                                                                                                                                                                                                                           | M3 L=32.5mm                                                                                                                                                                                                                                           | M3 L=32.5mm                                                                                                                                                           | M3 L=32.5mm                                                                                                                                                             |
| Iron+Zinc plated                                                                                                                                                                                                                                      | Iron+Zinc plated                                                                                                                                                                                                                                      | Iron+Zinc plated                                                                                                                                                      | Iron+Zinc plated                                                                                                                                                        |
| 0.5 N*m                                                                                                                                                                                                                                               | 0.5 N*m                                                                                                                                                                                                                                               | 0.5 N*m                                                                                                                                                               | 0.5 N*m                                                                                                                                                                 |
| <b>Packaging</b>                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                       |                                                                                                                                                                       |                                                                                                                                                                         |
| 50pcs / box                                                                                                                                                                                                                                           | Singly paked in plastic bag                                                                                                                                                                                                                           | 50pcs / box                                                                                                                                                           | 50pcs / box                                                                                                                                                             |
| <b>Other accessories options</b>                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                       |                                                                                                                                                                       |                                                                                                                                                                         |
| See accessories section                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                       |                                                                                                                                                                       |                                                                                                                                                                         |
| <b>Notes:</b>                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                       |                                                                                                                                                                       |                                                                                                                                                                         |
| Connector available with different circuits.                                                                                                                                                                                                          |                                                                                                                                                                                                                                                       |                                                                                                                                                                       | Connector available with different led colour                                                                                                                           |



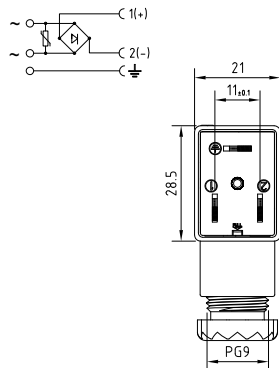
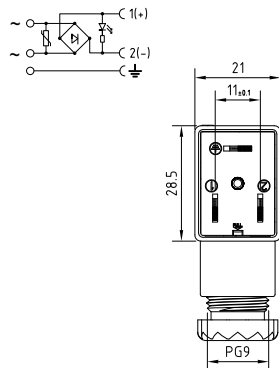
#### Technical drawing



#### Product description

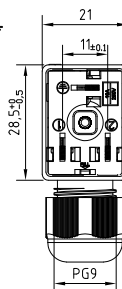
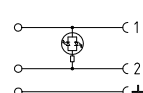
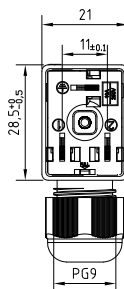
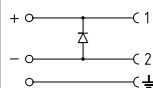
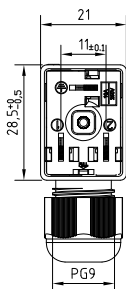
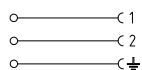
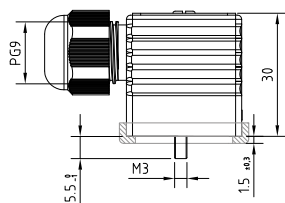
|                                  |                                                                                                   |                 |                 |                                                                                                   |                 |                 |                                                                                                   |  |  |
|----------------------------------|---------------------------------------------------------------------------------------------------|-----------------|-----------------|---------------------------------------------------------------------------------------------------|-----------------|-----------------|---------------------------------------------------------------------------------------------------|--|--|
| Connector type                   | DIN valve connectors                                                                              |                 |                 | DIN valve connectors                                                                              |                 |                 | DIN valve connectors                                                                              |  |  |
| Conforms to                      | Industrial                                                                                        |                 |                 | Industrial                                                                                        |                 |                 | Industrial                                                                                        |  |  |
| Construction type                | B                                                                                                 |                 |                 | B                                                                                                 |                 |                 | B                                                                                                 |  |  |
| Part number                      | <b>M1TS2DL1</b>                                                                                   | <b>M1TS2DL2</b> | <b>M1TS2DL3</b> | <b>M1TS2VL1</b>                                                                                   | <b>M1TS2VL2</b> | <b>M1TS2VL3</b> | <b>M1NS2R03</b>                                                                                   |  |  |
| Description                      | Rectangular connector M1 series complete with gasket and fixing screw. Connector with electronic. |                 |                 | Rectangular connector M1 series complete with gasket and fixing screw. Connector with electronic. |                 |                 | Rectangular connector M1 series complete with gasket and fixing screw. Connector with electronic. |  |  |
| Contacts spacing                 | 11mm                                                                                              |                 |                 | 11mm                                                                                              |                 |                 | 11mm                                                                                              |  |  |
| Number of contacts               | 2poles + P.E.                                                                                     |                 |                 | 2poles + P.E.                                                                                     |                 |                 | 2poles + P.E.                                                                                     |  |  |
| Earth positioning                | H.12 (turnable)                                                                                   |                 |                 | H.12 (turnable)                                                                                   |                 |                 | H.12 (turnable)                                                                                   |  |  |
| Housing colour                   | Transparent                                                                                       |                 |                 | Transparent                                                                                       |                 |                 | Black                                                                                             |  |  |
| Housing height                   | 30mm                                                                                              |                 |                 | 30mm                                                                                              |                 |                 | 30mm                                                                                              |  |  |
| Cable gland                      | PG9                                                                                               |                 |                 | PG9                                                                                               |                 |                 | PG9                                                                                               |  |  |
| Gasket type                      | Profiled NBR gasket                                                                               |                 |                 | Profiled NBR gasket                                                                               |                 |                 | Profiled NBR gasket                                                                               |  |  |
| <b>Technical data</b>            |                                                                                                   |                 |                 |                                                                                                   |                 |                 |                                                                                                   |  |  |
| Type of termination              | Screw contacts                                                                                    |                 |                 | Screw contacts                                                                                    |                 |                 | Screw contacts                                                                                    |  |  |
| Contact screw torque             | 0.5 N*m                                                                                           |                 |                 | 0.5 N*m                                                                                           |                 |                 | 0.5 N*m                                                                                           |  |  |
| Rated voltage                    | 24V DC                                                                                            | 115V DC         | 230V DC         | 24V AC/DC                                                                                         | 115V AC/DC      | 230V AC/DC      | 1-230V AC                                                                                         |  |  |
| Circuit type                     | Led + Diode(1A)                                                                                   |                 |                 | Bipolar Led + Varistor                                                                            |                 |                 | Full-Wave Bidge Rectifier (1A)                                                                    |  |  |
| Led colour                       | Red                                                                                               |                 |                 | Red                                                                                               |                 |                 | -                                                                                                 |  |  |
| Suitable cable                   | ø cable 6-8mm                                                                                     |                 |                 | ø cable 6-8mm                                                                                     |                 |                 | ø cable 6-8mm                                                                                     |  |  |
| Central fixing screw             | M3 L=32.5mm                                                                                       |                 |                 | M3 L=32.5mm                                                                                       |                 |                 | M3 L=32.5mm                                                                                       |  |  |
| Central fixing screw material    | Iron+Zinc plated                                                                                  |                 |                 | Iron+Zinc plated                                                                                  |                 |                 | Iron+Zinc plated                                                                                  |  |  |
| Central screw torque             | 0.5 N*m                                                                                           |                 |                 | 0.5 N*m                                                                                           |                 |                 | 0.5 N*m                                                                                           |  |  |
| <b>Packaging</b>                 |                                                                                                   |                 |                 |                                                                                                   |                 |                 |                                                                                                   |  |  |
| Qty/Box                          | 50pcs / box                                                                                       |                 |                 | 50pcs / box                                                                                       |                 |                 | 50pcs / box                                                                                       |  |  |
| <b>Other accessories options</b> |                                                                                                   |                 |                 |                                                                                                   |                 |                 |                                                                                                   |  |  |
| See accessories section          |                                                                                                   |                 |                 |                                                                                                   |                 |                 |                                                                                                   |  |  |
| <b>Notes:</b>                    | Connector available with different led colour                                                     |                 |                 | Connector available with different led colour                                                     |                 |                 |                                                                                                   |  |  |



|                                                                                                   |                                                                                   |                                             |
|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------|
|                  |  |                                             |
| <b>Product description</b>                                                                        |                                                                                   |                                             |
| DIN valve connectors                                                                              | DIN valve connectors                                                              |                                             |
| Industrial                                                                                        | Industrial                                                                        |                                             |
| B                                                                                                 | B                                                                                 |                                             |
| <b>M1NS2RV1</b>                                                                                   | <b>M1NS2RV2</b>                                                                   | <b>M1NS2RV3</b>                             |
| Rectangular connector M1 series complete with gasket and fixing screw. Connector with electronic. |                                                                                   |                                             |
| 11mm                                                                                              | 11mm                                                                              |                                             |
| 2poles + P.E.                                                                                     | 2poles + P.E.                                                                     |                                             |
| H.12 (turnable)                                                                                   | H.12 (turnable)                                                                   |                                             |
| Black                                                                                             | Transparent                                                                       |                                             |
| 30mm                                                                                              | 30mm                                                                              |                                             |
| PG9                                                                                               | PG9                                                                               |                                             |
| Profiled NBR gasket                                                                               | Profiled NBR gasket                                                               |                                             |
| <b>Technical data</b>                                                                             |                                                                                   |                                             |
| Screw contacts                                                                                    | Screw contacts                                                                    |                                             |
| 0.5 N*m                                                                                           | 0.5 N*m                                                                           |                                             |
| 24V AC                                                                                            | 115V AC                                                                           | 230V AC                                     |
| Full-Wave Bridge Rectifier + Varistor                                                             |                                                                                   | Full-Wave Bridge Rectifier + Varistor + Led |
| -                                                                                                 | Red                                                                               |                                             |
| ø cable 6-8mm                                                                                     | ø cable 6-8mm                                                                     |                                             |
| M3 L=32.5mm                                                                                       | M3 L=32.5mm                                                                       |                                             |
| Iron+Zinc plated                                                                                  | Iron+Zinc plated                                                                  |                                             |
| 0.5 N*m                                                                                           | 0.5 N*m                                                                           |                                             |
| <b>Packaging</b>                                                                                  |                                                                                   |                                             |
| 50pcs / box                                                                                       | 50pcs / box                                                                       |                                             |
| <b>Other accessories options</b>                                                                  |                                                                                   |                                             |
| See accessories section                                                                           |                                                                                   |                                             |
| <b>Notes:</b>                                                                                     | Connector available with different led colour                                     |                                             |

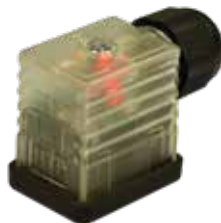


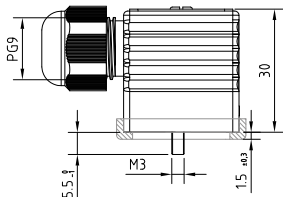
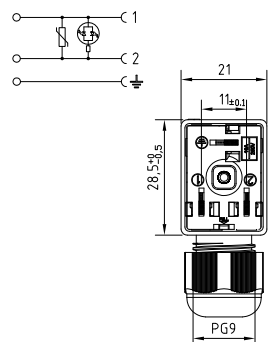
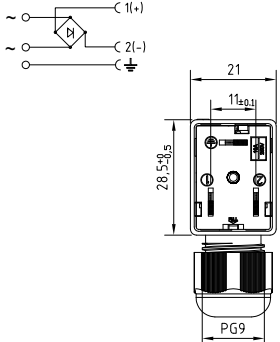
#### Technical drawing

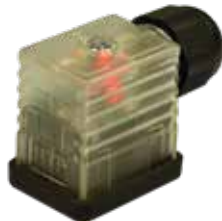


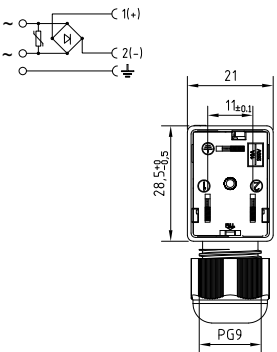
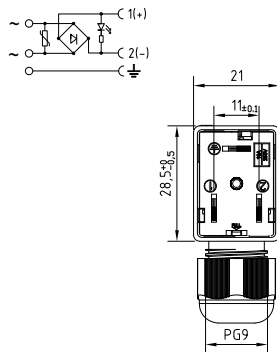
#### Product description

|                                  |                                                                                                      |                                                                                                   |                                                                                                   |
|----------------------------------|------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| Connector type                   | DIN valve connectors                                                                                 | DIN valve connectors                                                                              | DIN valve connectors                                                                              |
| Conforms to                      | Industrial                                                                                           | Industrial                                                                                        | Industrial                                                                                        |
| Construction type                | B                                                                                                    | B                                                                                                 | B                                                                                                 |
| Part number                      | <b>M1NS2000-SK</b>                                                                                   | <b>M1NS2D03-SK</b>                                                                                | <b>M1TS2L01-SK</b> <b>M1TS2L02-SK</b> <b>M1TS2L03-SK</b>                                          |
| Description                      | Rectangular connector M1 series complete with gasket and fixing screw. Connector without electronic. | Rectangular connector M1 series complete with gasket and fixing screw. Connector with electronic. | Rectangular connector M1 series complete with gasket and fixing screw. Connector with electronic. |
| Contacts spacing                 | 11mm                                                                                                 | 11mm                                                                                              | 11mm                                                                                              |
| Number of contacts               | 2poles + P.E.                                                                                        | 2poles + P.E.                                                                                     | 2poles + P.E.                                                                                     |
| Earth positioning                | H.12 (turnable)                                                                                      | H.12 (turnable)                                                                                   | H.12 (turnable)                                                                                   |
| Housing colour                   | Black                                                                                                | Black                                                                                             | Transparent                                                                                       |
| Housing height                   | 30mm                                                                                                 | 30mm                                                                                              | 30mm                                                                                              |
| Cable gland                      | SK - PG9                                                                                             | SK - PG9                                                                                          | SK - PG9                                                                                          |
| Gasket type                      | Profiled NBR gasket                                                                                  | Profiled NBR gasket                                                                               | Profiled NBR gasket                                                                               |
| <b>Technical data</b>            |                                                                                                      |                                                                                                   |                                                                                                   |
| Type of termination              | Screw contacts                                                                                       | Screw contacts                                                                                    | Screw contacts                                                                                    |
| Contact screw torque             | 0.5 N*m                                                                                              | 0.5 N*m                                                                                           | 0.5 N*m                                                                                           |
| Rated voltage                    | 250V AC/ 300VDC                                                                                      | 1-230V DC                                                                                         | 24V AC/DC 115V AC/DC 230V AC/DC                                                                   |
| Circuit type                     | -                                                                                                    | Diode(1A)                                                                                         | Bipolar Led                                                                                       |
| Led colour                       | -                                                                                                    | -                                                                                                 | Red                                                                                               |
| Suitable cable                   | ø cable 4-8.6mm                                                                                      | ø cable 4-8.6mm                                                                                   | ø cable 4-8.6mm                                                                                   |
| Central fixing screw             | M3 L=32.5mm                                                                                          | M3 L=32.5mm                                                                                       | M3 L=32.5mm                                                                                       |
| Central fixing screw material    | Iron + Zinc plated                                                                                   | Iron + Zinc plated                                                                                | Iron + Zinc plated                                                                                |
| Central screw torque             | 0.5 N*m                                                                                              | 0.5 N*m                                                                                           | 0.5 N*m                                                                                           |
| <b>Packaging</b>                 |                                                                                                      |                                                                                                   |                                                                                                   |
| Qty/Box                          | 50pcs / box                                                                                          | 50pcs / box                                                                                       | 50pcs / box                                                                                       |
| <b>Other accessories options</b> |                                                                                                      |                                                                                                   |                                                                                                   |
| See accessories section          |                                                                                                      |                                                                                                   |                                                                                                   |
| <b>Notes:</b>                    | Connector available with different circuits.                                                         |                                                                                                   | Connector available with different led colour                                                     |



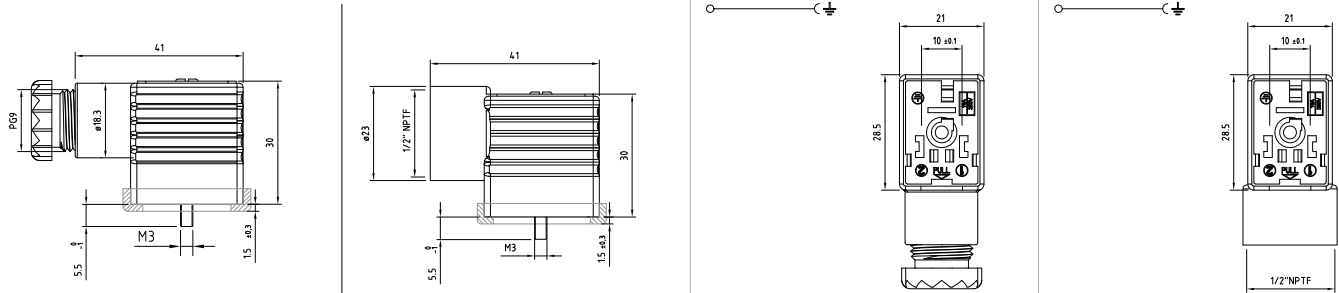
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|----------------------------------|--|---------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------|--|-----------|--|
| <b>Technical drawing</b>         |  |                                                                                                   |  |  |  |                                                                                                   |  |  |  |                                                                                                   |  |  |  |           |  |
| <b>Product description</b>       |  |                                                                                                   |  |                                                                                   |  |                                                                                                   |  |                                                                                    |  |                                                                                                   |  |                                                                                     |  |           |  |
| Connector type                   |  | DIN valve connectors                                                                              |  |                                                                                   |  | DIN valve connectors                                                                              |  |                                                                                    |  | DIN valve connectors                                                                              |  |                                                                                     |  |           |  |
| Conforms to                      |  | Industrial                                                                                        |  |                                                                                   |  | Industrial                                                                                        |  |                                                                                    |  | Industrial                                                                                        |  |                                                                                     |  |           |  |
| Construction type                |  | B                                                                                                 |  |                                                                                   |  | B                                                                                                 |  |                                                                                    |  | B                                                                                                 |  |                                                                                     |  |           |  |
| Part number                      |  | <b>M1TS2DL1-SK</b> <b>M1TS2DL2-SK</b> <b>M1TS2DL3-SK</b>                                          |  |                                                                                   |  | <b>M1TS2VL1-SK</b> <b>M1TS2VL2-SK</b> <b>M1TS2VL3-SK</b>                                          |  |                                                                                    |  | <b>M1NS2R03-SK</b>                                                                                |  |                                                                                     |  |           |  |
| Description                      |  | Rectangular connector M1 series complete with gasket and fixing screw. Connector with electronic. |  |                                                                                   |  | Rectangular connector M1 series complete with gasket and fixing screw. Connector with electronic. |  |                                                                                    |  | Rectangular connector M1 series complete with gasket and fixing screw. Connector with electronic. |  |                                                                                     |  |           |  |
| Contacts spacing                 |  | 11mm                                                                                              |  |                                                                                   |  | 11mm                                                                                              |  |                                                                                    |  | 11mm                                                                                              |  |                                                                                     |  |           |  |
| Number of contacts               |  | 2poles + P.E.                                                                                     |  |                                                                                   |  | 2poles + P.E.                                                                                     |  |                                                                                    |  | 2poles + P.E.                                                                                     |  |                                                                                     |  |           |  |
| Earth positioning                |  | H.12 (turnable)                                                                                   |  |                                                                                   |  | H.12 (turnable)                                                                                   |  |                                                                                    |  | H.12 (turnable)                                                                                   |  |                                                                                     |  |           |  |
| Housing colour                   |  | Transparent                                                                                       |  |                                                                                   |  | Transparent                                                                                       |  |                                                                                    |  | Black                                                                                             |  |                                                                                     |  |           |  |
| Housing height                   |  | 30mm                                                                                              |  |                                                                                   |  | 30mm                                                                                              |  |                                                                                    |  | 30mm                                                                                              |  |                                                                                     |  |           |  |
| Cable gland                      |  | SK - PG9                                                                                          |  |                                                                                   |  | SK - PG9                                                                                          |  |                                                                                    |  | PG9                                                                                               |  |                                                                                     |  |           |  |
| Gasket type                      |  | Profiled NBR gasket                                                                               |  |                                                                                   |  | Profiled NBR gasket                                                                               |  |                                                                                    |  | Profiled NBR gasket                                                                               |  |                                                                                     |  |           |  |
| <b>Technical data</b>            |  |                                                                                                   |  |                                                                                   |  |                                                                                                   |  |                                                                                    |  |                                                                                                   |  |                                                                                     |  |           |  |
| Type of termination              |  | Screw contacts                                                                                    |  |                                                                                   |  | Screw contacts                                                                                    |  |                                                                                    |  | Screw contacts                                                                                    |  |                                                                                     |  |           |  |
|                                  |  | 0.5 N*m                                                                                           |  |                                                                                   |  | 0.5 N*m                                                                                           |  |                                                                                    |  | 0.5 N*m                                                                                           |  |                                                                                     |  |           |  |
| Rated voltage                    |  | 24V DC                                                                                            |  | 115V DC                                                                           |  | 230V DC                                                                                           |  | 24V AC/DC                                                                          |  | 115V AC/DC                                                                                        |  | 230V AC/DC                                                                          |  | 1-230V AC |  |
| Circuit type                     |  | Led + Diode(1A)                                                                                   |  |                                                                                   |  | Bipolar Led + Varistor                                                                            |  |                                                                                    |  | Full-Wave Bridge Rectifier (1A)                                                                   |  |                                                                                     |  |           |  |
| Led colour                       |  | Red                                                                                               |  |                                                                                   |  | Red                                                                                               |  |                                                                                    |  | -                                                                                                 |  |                                                                                     |  |           |  |
| Suitable cable                   |  | ø cable 4-8.6mm                                                                                   |  |                                                                                   |  | ø cable 4-8.6mm                                                                                   |  |                                                                                    |  | ø cable 4-8.6mm                                                                                   |  |                                                                                     |  |           |  |
| Central fixing screw             |  | M3 L=32.5mm                                                                                       |  |                                                                                   |  | M3 L=32.5mm                                                                                       |  |                                                                                    |  | M3 L=32.5mm                                                                                       |  |                                                                                     |  |           |  |
| Central fixing screw material    |  | Iron+Zinc plated                                                                                  |  |                                                                                   |  | Iron+Zinc plated                                                                                  |  |                                                                                    |  | Iron+Zinc plated                                                                                  |  |                                                                                     |  |           |  |
| Central screw torque             |  | 0.5 N*m                                                                                           |  |                                                                                   |  | 0.5 N*m                                                                                           |  |                                                                                    |  | 0.5 N*m                                                                                           |  |                                                                                     |  |           |  |
| <b>Packaging</b>                 |  |                                                                                                   |  |                                                                                   |  |                                                                                                   |  |                                                                                    |  |                                                                                                   |  |                                                                                     |  |           |  |
| Qty/Box                          |  | 50pcs / box                                                                                       |  |                                                                                   |  | 50pcs / box                                                                                       |  |                                                                                    |  | 50pcs / box                                                                                       |  |                                                                                     |  |           |  |
| <b>Other accessories options</b> |  |                                                                                                   |  |                                                                                   |  |                                                                                                   |  |                                                                                    |  |                                                                                                   |  |                                                                                     |  |           |  |
| See accessories section          |  |                                                                                                   |  |                                                                                   |  |                                                                                                   |  |                                                                                    |  |                                                                                                   |  |                                                                                     |  |           |  |
| <b>Notes:</b>                    |  |                                                                                                   |  |                                                                                   |  |                                                                                                   |  |                                                                                    |  |                                                                                                   |  |                                                                                     |  |           |  |
|                                  |  |                                                                                                   |  | Connector available with different led colour                                     |  |                                                                                                   |  | Connector available with different led colour                                      |  |                                                                                                   |  |                                                                                     |  |           |  |



|                                                                                                   |                                                                                                   |  |  |
|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|--|--|
|                  |                  |  |  |
| <b>Product description</b>                                                                        |                                                                                                   |  |  |
| DIN valve connectors                                                                              | DIN valve connectors                                                                              |  |  |
| Industrial                                                                                        | Industrial                                                                                        |  |  |
| B                                                                                                 | B                                                                                                 |  |  |
| <b>M1NS2RV1-SK</b> <b>M1NS2RV2-SK</b> <b>M1NS2RV3-SK</b>                                          | <b>M1TS2RL1-SK</b> <b>M1TS2RL2-SK</b> <b>M1TS2RL3-SK</b>                                          |  |  |
| Rectangular connector M1 series complete with gasket and fixing screw. Connector with electronic. | Rectangular connector M1 series complete with gasket and fixing screw. Connector with electronic. |  |  |
| 11mm                                                                                              | 11mm                                                                                              |  |  |
| 2poles + P.E.                                                                                     | 2poles + P.E.                                                                                     |  |  |
| H.12 (turnable)                                                                                   | H.12 (turnable)                                                                                   |  |  |
| Black                                                                                             | Transparent                                                                                       |  |  |
| 30mm                                                                                              | 30mm                                                                                              |  |  |
| SK - PG9                                                                                          | SK - PG9                                                                                          |  |  |
| Profiled NBR gasket                                                                               | Profiled NBR gasket                                                                               |  |  |
| <b>Technical data</b>                                                                             |                                                                                                   |  |  |
| Screw contacts                                                                                    | Screw contacts                                                                                    |  |  |
| 0.5 N*m                                                                                           | 0.5 N*m                                                                                           |  |  |
| 24V AC    115V AC    230V AC                                                                      | 24V AC    115V AC    230V AC                                                                      |  |  |
| Full-Wave Bridge Rectifier + Varistor                                                             | Full-Wave Bridge Rectifier + Varistor + Led                                                       |  |  |
| -                                                                                                 | Red                                                                                               |  |  |
| ø cable 4-8.6mm                                                                                   | ø cable 4-8.6mm                                                                                   |  |  |
| M3 L=32.5mm                                                                                       | M3 L=32.5mm                                                                                       |  |  |
| Iron+Zinc plated                                                                                  | Iron+Zinc plated                                                                                  |  |  |
| 0.5 N*m                                                                                           | 0.5 N*m                                                                                           |  |  |
| <b>Packaging</b>                                                                                  |                                                                                                   |  |  |
| 50pcs / box                                                                                       | 50pcs / box                                                                                       |  |  |
| <b>Other accessories options</b>                                                                  |                                                                                                   |  |  |
| See accessories section                                                                           |                                                                                                   |  |  |
| <b>Notes:</b>                                                                                     | Connector available with different led colour                                                     |  |  |



#### Technical drawing



#### Product description

|                    |                                                                                                      |                                                                                                      |
|--------------------|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| Connector type     | DIN valve connectors                                                                                 | DIN valve connectors                                                                                 |
| Conforms to        | EN175301-803                                                                                         | EN175301-803                                                                                         |
| Construction type  | B                                                                                                    | B                                                                                                    |
| Part number        | <b>M2NS2000</b>                                                                                      | <b>M2NF2000</b>                                                                                      |
| Description        | Rectangular connector M2 series complete with gasket and fixing screw. Connector without electronic. | Rectangular connector M2 series complete with gasket and fixing screw. Connector without electronic. |
| Contacts spacing   | 10mm                                                                                                 | 10mm                                                                                                 |
| Number of contacts | 2poles + P.E.                                                                                        | 2poles + P.E.                                                                                        |
| Earth positioning  | H.12 (turnable)                                                                                      | H.12 (turnable)                                                                                      |
| Housing colour     | Black                                                                                                | Black                                                                                                |
| Housing height     | 30mm                                                                                                 | 30mm                                                                                                 |
| Cable gland        | PG9                                                                                                  | 1/2"NPTF                                                                                             |
| Gasket type        | Profiled NBR gasket                                                                                  | Profiled NBR gasket                                                                                  |

#### Technical data

|                               |                  |                  |
|-------------------------------|------------------|------------------|
| Type of termination           | Screw contacts   | Screw contacts   |
| Contact screw torque          | 0.5 N*m          | 0.5 N*m          |
| Rated voltage                 | 250V AC/ 300VDC  | 250V AC/ 300VDC  |
| Circuit type                  | -                | -                |
| Led colour                    | -                | -                |
| Suitable cable                | Ø cable 6-8mm    | Ø cable 6-8mm    |
| Central fixing screw          | M3 L=32.5mm      | M3 L=32.5mm      |
| Central fixing screw material | Iron+Zinc plated | Iron+Zinc plated |
| Central screw torque          | 0.5 N*m          | 0.5 N*m          |

#### Packaging

|         |             |             |
|---------|-------------|-------------|
| Qty/Box | 50pcs / box | 50pcs / box |
|---------|-------------|-------------|

#### Other accessories options

|                         |  |  |
|-------------------------|--|--|
| See accessories section |  |  |
|-------------------------|--|--|

#### Notes:

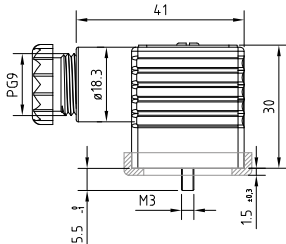
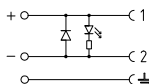
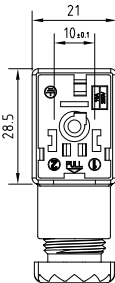
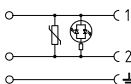
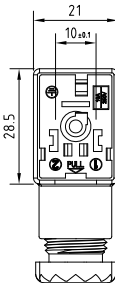
|                                           |                                                                                  |
|-------------------------------------------|----------------------------------------------------------------------------------|
| Connector with Grey Housing: P/N M2GS2000 | Connector with Grey Housing: P/N M2GF2000<br>Connector without press-cable screw |
|-------------------------------------------|----------------------------------------------------------------------------------|





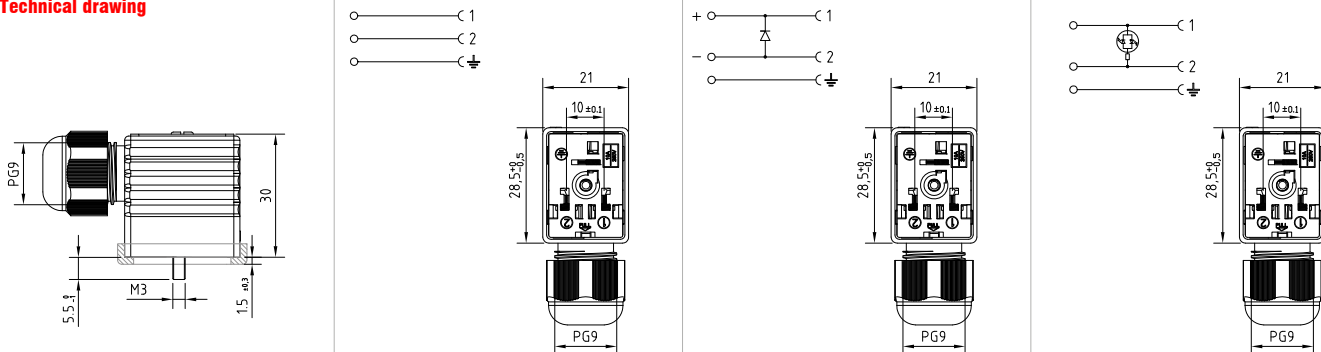
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|----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                        |                                                                                                                                           |                                                                                                                      |                                                                                                                                                      |
| <b>Product description</b>                                                                                                             |                                                                                                                                           |                                                                                                                      |                                                                                                                                                      |
| DIN valve connectors                                                                                                                   | DIN valve connectors                                                                                                                      | DIN valve connectors                                                                                                 | DIN valve connectors                                                                                                                                 |
| EN175301-803                                                                                                                           | EN175301-803                                                                                                                              | EN175301-803                                                                                                         | EN175301-803                                                                                                                                         |
| B                                                                                                                                      | B                                                                                                                                         | B                                                                                                                    | B                                                                                                                                                    |
| <b>M2NS2000-UL</b><br>Rectangular connector M2 series,ULapproved, complete with gasket and fixing screw. Connector without electronic. | <b>M2NS2000-ATEX</b><br>Rectangular connector M2 series,ATEX conform,complete with gasket and fixing screw. Connector without electronic. | <b>M2NS2D03</b><br>Rectangular connector M2 series complete with gasket and fixing screw. Connector with electronic. | <b>M2TS2L01</b> <b>M2TS2L02</b> <b>M2TS2L03</b><br>Rectangular connector M2 series complete with gasket and fixing screw. Connector with electronic. |
| 10mm                                                                                                                                   | 10mm                                                                                                                                      | 10mm                                                                                                                 | 10mm                                                                                                                                                 |
| 2poles + P.E.                                                                                                                          | 2poles + P.E.                                                                                                                             | 2poles + P.E.                                                                                                        | 2poles + P.E.                                                                                                                                        |
| H.12 (turnable)                                                                                                                        | H.12 (turnable)                                                                                                                           | H.12 (turnable)                                                                                                      | H.12 (turnable)                                                                                                                                      |
| Black                                                                                                                                  | Black                                                                                                                                     | Black                                                                                                                | Transparent                                                                                                                                          |
| 30mm                                                                                                                                   | 30mm                                                                                                                                      | 30mm                                                                                                                 | 30mm                                                                                                                                                 |
| PG9                                                                                                                                    | PG9                                                                                                                                       | PG9                                                                                                                  | PG9                                                                                                                                                  |
| Profiled NBR gasket                                                                                                                    | Flat Silicone gasket                                                                                                                      | Profiled NBR gasket                                                                                                  | Profiled NBR gasket                                                                                                                                  |
| <b>Technical data</b>                                                                                                                  |                                                                                                                                           |                                                                                                                      |                                                                                                                                                      |
| Screw contacts                                                                                                                         | Screw contacts                                                                                                                            | Screw contacts                                                                                                       | Screw contacts                                                                                                                                       |
| 0.5 N*m                                                                                                                                | 0.5 N*m                                                                                                                                   | 0.5 N*m                                                                                                              | 0.5 N*m                                                                                                                                              |
| 250V AC/ 300VDC                                                                                                                        | 230V AC/ 300VDC                                                                                                                           | 1-230V DC                                                                                                            | 24V AC/DC 115V AC/DC 230V AC/DC                                                                                                                      |
| -                                                                                                                                      | -                                                                                                                                         | Diode(1A)                                                                                                            | Bipolar Led                                                                                                                                          |
| -                                                                                                                                      | -                                                                                                                                         | -                                                                                                                    | Red                                                                                                                                                  |
| ø cable 6-8mm                                                                                                                          | ø cable 6-8mm                                                                                                                             | ø cable 6-8mm                                                                                                        | ø cable 6-8mm                                                                                                                                        |
| M3 L=32.5mm                                                                                                                            | M3 L=32.5mm                                                                                                                               | M3 L=32.5mm                                                                                                          | M3 L=32.5mm                                                                                                                                          |
| Iron + Zinc plated                                                                                                                     | Iron + Zinc plated                                                                                                                        | Iron + Zinc plated                                                                                                   | Iron + Zinc plated                                                                                                                                   |
| 0.5 N*m                                                                                                                                | 0.5 N*m                                                                                                                                   | 0.5 N*m                                                                                                              | 0.5 N*m                                                                                                                                              |
| <b>Packaging</b>                                                                                                                       |                                                                                                                                           |                                                                                                                      |                                                                                                                                                      |
| 50pcs / box                                                                                                                            | Singly packed in plastic bag                                                                                                              | 50pcs / box                                                                                                          | 50pcs / box                                                                                                                                          |
| <b>Other accessories options</b>                                                                                                       |                                                                                                                                           |                                                                                                                      |                                                                                                                                                      |
| See accessories section                                                                                                                |                                                                                                                                           |                                                                                                                      |                                                                                                                                                      |
| <b>Notes:</b><br>Connector available with different circuits.                                                                          |                                                                                                                                           |                                                                                                                      | Connector available with different led colour                                                                                                        |



|                                                                                   |                                                                                                                                                                     |                 |                                                                                                                                                                       |                                                                                                   |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| <b>Technical drawing</b>                                                          |                                                                                                                                                                     |                 |                                                                                                                                                                       |                                                                                                   |
|  |   |                 |   |                                                                                                   |
| <b>Product description</b>                                                        |                                                                                                                                                                     |                 |                                                                                                                                                                       |                                                                                                   |
| Connector type                                                                    | DIN valve connectors                                                                                                                                                |                 |                                                                                                                                                                       | DIN valve connectors                                                                              |
| Conforms to                                                                       | EN175301-803                                                                                                                                                        |                 |                                                                                                                                                                       | EN175301-803                                                                                      |
| Construction type                                                                 | B                                                                                                                                                                   |                 |                                                                                                                                                                       | B                                                                                                 |
| Part number                                                                       | <b>M2TS2DL1</b>                                                                                                                                                     | <b>M2TS2DL2</b> | <b>M2TS2DL3</b>                                                                                                                                                       | <b>M2TS2VL1</b> <b>M2TS2VL2</b> <b>M2TS2VL3</b>                                                   |
| Description                                                                       | Rectangular connector M2 series complete with gasket and fixing screw. Connector with electronic.                                                                   |                 |                                                                                                                                                                       | Rectangular connector M2 series complete with gasket and fixing screw. Connector with electronic. |
| Contacts spacing                                                                  | 10mm                                                                                                                                                                |                 |                                                                                                                                                                       | 10mm                                                                                              |
| Number of contacts                                                                | 2poles + P.E.                                                                                                                                                       |                 |                                                                                                                                                                       | 2poles + P.E.                                                                                     |
| Earth positioning                                                                 | H.12 (turnable)                                                                                                                                                     |                 |                                                                                                                                                                       | H.12 (turnable)                                                                                   |
| Housing colour                                                                    | Transparent                                                                                                                                                         |                 |                                                                                                                                                                       | Transparent                                                                                       |
| Housing height                                                                    | 30mm                                                                                                                                                                |                 |                                                                                                                                                                       | 30mm                                                                                              |
| Cable gland                                                                       | PG9                                                                                                                                                                 |                 |                                                                                                                                                                       | PG9                                                                                               |
| Gasket type                                                                       | Profiled NBR gasket                                                                                                                                                 |                 |                                                                                                                                                                       | Profiled NBR gasket                                                                               |
| <b>Technical data</b>                                                             |                                                                                                                                                                     |                 |                                                                                                                                                                       |                                                                                                   |
| Type of termination                                                               | Screw contacts                                                                                                                                                      |                 |                                                                                                                                                                       | Screw contacts                                                                                    |
| Contact screw torque                                                              | 0.5 N*m                                                                                                                                                             |                 |                                                                                                                                                                       | 0.5 N*m                                                                                           |
| Rated voltage                                                                     | 24V DC                                                                                                                                                              | 115V DC         | 230V DC                                                                                                                                                               | 24V AC/DC   115V AC/DC   230V AC/DC                                                               |
| Circuit type                                                                      | Led + Diode(1A)                                                                                                                                                     |                 |                                                                                                                                                                       | Bipolar Led + Varistor                                                                            |
| Led colour                                                                        | Red                                                                                                                                                                 |                 |                                                                                                                                                                       | Red                                                                                               |
| Suitable cable                                                                    | ø cable 6-8mm                                                                                                                                                       |                 |                                                                                                                                                                       | ø cable 6-8mm                                                                                     |
| Central fixing screw                                                              | M3 L=32.5mm                                                                                                                                                         |                 |                                                                                                                                                                       | M3 L=32.5mm                                                                                       |
| Central fixing screw material                                                     | Iron+Zinc plated                                                                                                                                                    |                 |                                                                                                                                                                       | Iron+Zinc plated                                                                                  |
| Central screw torque                                                              | 0.5 N*m                                                                                                                                                             |                 |                                                                                                                                                                       | 0.5 N*m                                                                                           |
| <b>Packaging</b>                                                                  |                                                                                                                                                                     |                 |                                                                                                                                                                       |                                                                                                   |
| Qty/Box                                                                           | 50pcs / box                                                                                                                                                         |                 |                                                                                                                                                                       | 50pcs / box                                                                                       |
| <b>Other accessories options</b>                                                  |                                                                                                                                                                     |                 |                                                                                                                                                                       |                                                                                                   |
| See accessories section                                                           |                                                                                                                                                                     |                 |                                                                                                                                                                       |                                                                                                   |
| <b>Notes:</b>                                                                     | Connector available with different led colour                                                                                                                       |                 |                                                                                                                                                                       | Connector available with different led colour                                                     |



#### Technical drawing



#### Product description

|                    |                                                                                                      |                                                                                                   |                                                                                                   |
|--------------------|------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| Connector type     | DIN valve connectors                                                                                 | DIN valve connectors                                                                              | DIN valve connectors                                                                              |
| Conforms to        | EN175301-803                                                                                         | EN175301-803                                                                                      | EN175301-803                                                                                      |
| Construction type  | B                                                                                                    | B                                                                                                 | B                                                                                                 |
| Part number        | <b>M2NS2000-SK</b>                                                                                   | <b>M2NS2D03-SK</b>                                                                                | <b>M2TS2L01-SK</b> <b>M2TS2L02-SK</b> <b>M2TS2L03-SK</b>                                          |
| Description        | Rectangular connector M2 series complete with gasket and fixing screw. Connector without electronic. | Rectangular connector M2 series complete with gasket and fixing screw. Connector with electronic. | Rectangular connector M2 series complete with gasket and fixing screw. Connector with electronic. |
| Contacts spacing   | 10mm                                                                                                 | 10mm                                                                                              | 10mm                                                                                              |
| Number of contacts | 2poles + P.E.                                                                                        | 2poles + P.E.                                                                                     | 2poles + P.E.                                                                                     |
| Earth positioning  | H.12 (turnable)                                                                                      | H.12 (turnable)                                                                                   | H.12 (turnable)                                                                                   |
| Housing colour     | Black                                                                                                | Black                                                                                             | Transparent                                                                                       |
| Housing height     | 30mm                                                                                                 | 30mm                                                                                              | 30mm                                                                                              |
| Cable gland        | SK - PG9                                                                                             | SK - PG9                                                                                          | SK - PG9                                                                                          |
| Gasket type        | Profiled NBR gasket                                                                                  | Profiled NBR gasket                                                                               | Profiled NBR gasket                                                                               |

#### Technical data

|                               |                    |                    |                                 |
|-------------------------------|--------------------|--------------------|---------------------------------|
| Type of termination           | Screw contacts     | Screw contacts     | Screw contacts                  |
| Contact screw torque          | 0.5 N*m            | 0.5 N*m            | 0.5 N*m                         |
| Rated voltage                 | 250V AC/ 300VDC    | 1-230V DC          | 24V AC/DC 115V AC/DC 230V AC/DC |
| Circuit type                  | -                  | Diode(1A)          | Bipolar Led                     |
| Led colour                    | -                  | -                  | Red                             |
| Suitable cable                | Ø cable 4-8.6mm    | Ø cable 4-8.6mm    | Ø cable 4-8.6mm                 |
| Central fixing screw          | M3 L=32.5mm        | M3 L=32.5mm        | M3 L=32.5mm                     |
| Central fixing screw material | Iron + Zinc plated | Iron + Zinc plated | Iron + Zinc plated              |
| Central screw torque          | 0.5 N*m            | 0.5 N*m            | 0.5 N*m                         |

#### Packaging

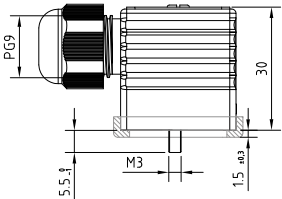
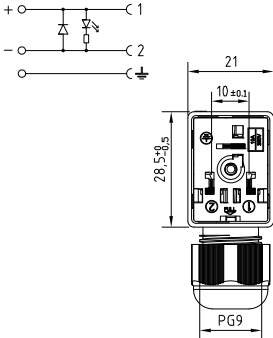
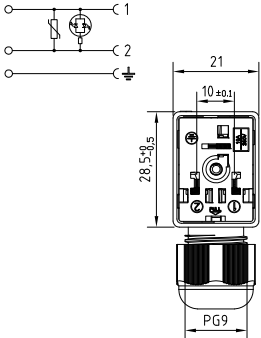
|         |             |             |             |
|---------|-------------|-------------|-------------|
| Qty/Box | 50pcs / box | 50pcs / box | 50pcs / box |
|---------|-------------|-------------|-------------|

#### Other accessories options

|                         |  |  |  |
|-------------------------|--|--|--|
| See accessories section |  |  |  |
|-------------------------|--|--|--|

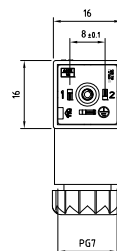
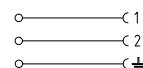
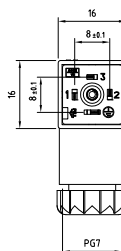
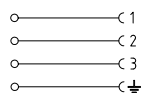
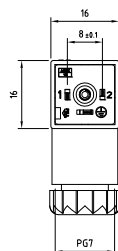
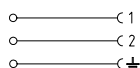
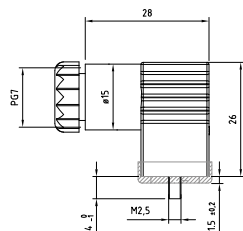
|               |                                              |  |                                               |
|---------------|----------------------------------------------|--|-----------------------------------------------|
| <b>Notes:</b> | Connector available with different circuits. |  | Connector available with different led colour |
|---------------|----------------------------------------------|--|-----------------------------------------------|



|                                                                                   |  |                                                                                                   |         |                                                                                                   |           |            |            |
|-----------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------|---------|---------------------------------------------------------------------------------------------------|-----------|------------|------------|
| <b>Technical drawing</b>                                                          |  |                                                                                                   |         |                                                                                                   |           |            |            |
|  |  |                  |         |                 |           |            |            |
| <b>Product description</b>                                                        |  |                                                                                                   |         |                                                                                                   |           |            |            |
| Connector type                                                                    |  | DIN valve connectors                                                                              |         | DIN valve connectors                                                                              |           |            |            |
| Conforms to                                                                       |  | EN175301-803                                                                                      |         | EN175301-803                                                                                      |           |            |            |
| Construction type                                                                 |  | B                                                                                                 |         | B                                                                                                 |           |            |            |
| Part number                                                                       |  | <b>M2TS2DL1-SK</b> <b>M2TS2DL2-SK</b> <b>M2TS2DL3-SK</b>                                          |         | <b>M2TS2VL1-SK</b> <b>M2TS2VL2-SK</b> <b>M2TS2VL3-SK</b>                                          |           |            |            |
| Description                                                                       |  | Rectangular connector M2 series complete with gasket and fixing screw. Connector with electronic. |         | Rectangular connector M2 series complete with gasket and fixing screw. Connector with electronic. |           |            |            |
| Contacts spacing                                                                  |  | 10mm                                                                                              |         | 10mm                                                                                              |           |            |            |
| Number of contacts                                                                |  | 2poles + P.E.                                                                                     |         | 2poles + P.E.                                                                                     |           |            |            |
| Earth positioning                                                                 |  | H.12 (turnable)                                                                                   |         | H.12 (turnable)                                                                                   |           |            |            |
| Housing colour                                                                    |  | Transparent                                                                                       |         | Transparent                                                                                       |           |            |            |
| Housing height                                                                    |  | 30mm                                                                                              |         | 30mm                                                                                              |           |            |            |
| Cable gland                                                                       |  | SK - PG9                                                                                          |         | SK - PG9                                                                                          |           |            |            |
| Gasket type                                                                       |  | Profiled NBR gasket                                                                               |         | Profiled NBR gasket                                                                               |           |            |            |
| <b>Technical data</b>                                                             |  |                                                                                                   |         |                                                                                                   |           |            |            |
| Type of termination                                                               |  | Screw contacts                                                                                    |         | Screw contacts                                                                                    |           |            |            |
|                                                                                   |  | 0.5 N*m                                                                                           |         | 0.5 N*m                                                                                           |           |            |            |
| Rated voltage                                                                     |  | 24V DC                                                                                            | 115V DC | 230V DC                                                                                           | 24V AC/DC | 115V AC/DC | 230V AC/DC |
| Circuit type                                                                      |  | Led + Diode(1A)                                                                                   |         | Bipolar Led + Varistor                                                                            |           |            |            |
| Led colour                                                                        |  | Red                                                                                               |         | Red                                                                                               |           |            |            |
| Suitable cable                                                                    |  | ø cable 4-8.6mm                                                                                   |         | ø cable 4-8.6mm                                                                                   |           |            |            |
| Central fixing screw                                                              |  | M3 L=32.5mm                                                                                       |         | M3 L=32.5mm                                                                                       |           |            |            |
| Central fixing screw material                                                     |  | Iron+Zinc plated                                                                                  |         | Iron+Zinc plated                                                                                  |           |            |            |
| Central screw torque                                                              |  | 0.5 N*m                                                                                           |         | 0.5 N*m                                                                                           |           |            |            |
| <b>Packaging</b>                                                                  |  |                                                                                                   |         |                                                                                                   |           |            |            |
| Qty/Box                                                                           |  | 50pcs / box                                                                                       |         | 50pcs / box                                                                                       |           |            |            |
| <b>Other accessories options</b>                                                  |  |                                                                                                   |         |                                                                                                   |           |            |            |
| See accessories section                                                           |  |                                                                                                   |         |                                                                                                   |           |            |            |
| <b>Notes:</b>                                                                     |  | Connector available with different led colour                                                     |         | Connector available with different led colour                                                     |           |            |            |



## Technical drawing



### Product description

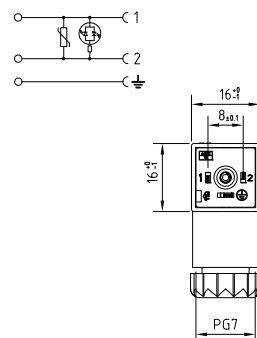
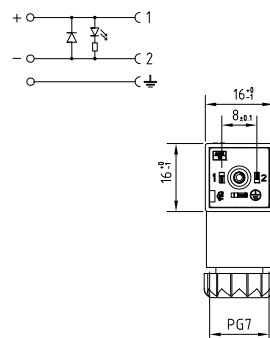
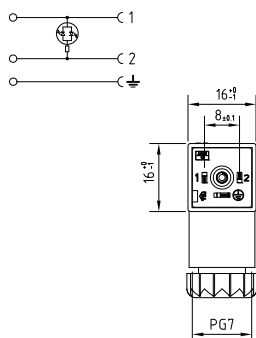
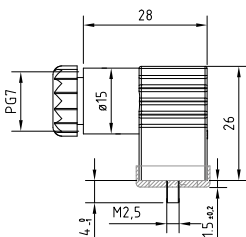
|                                  |                                                                                                       |                                                                                                       |                                                                                                                     |
|----------------------------------|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Connector type                   | DIN valve connectors                                                                                  | DIN valve connectors                                                                                  | DIN valve connectors                                                                                                |
| Conforms to                      | EN175301-803                                                                                          | EN175301-803                                                                                          | EN175301-803                                                                                                        |
| Construction type                | C                                                                                                     | C                                                                                                     | C                                                                                                                   |
| Part number                      | <b>P1NZ2000</b>                                                                                       | <b>P1NZ3000</b>                                                                                       | <b>P1NZ2000-UL</b>                                                                                                  |
| Description                      | Square micro connector P1 series complete with gasket and fixing screw. Connector without electronic. | Square micro connector P1 series complete with gasket and fixing screw. Connector without electronic. | Square micro connector P1 series, UL approved, complete with gasket and fixing screw. Connector without electronic. |
| Contacts spacing                 | 8mm                                                                                                   | 8mm                                                                                                   | 8mm                                                                                                                 |
| Number of contacts               | 2poles + P.E.                                                                                         | 3poles + P.E.                                                                                         | 2poles + P.E.                                                                                                       |
| Earth positioning                | H.6 (turnable)                                                                                        | H.6 (turnable)                                                                                        | H.6 (turnable)                                                                                                      |
| Housing colour                   | Black                                                                                                 | Black                                                                                                 | Black                                                                                                               |
| Housing height                   | 26mm                                                                                                  | 26mm                                                                                                  | 26mm                                                                                                                |
| Cable gland                      | PG7                                                                                                   | PG7                                                                                                   | PG7                                                                                                                 |
| Gasket type                      | Profiled NBR gasket                                                                                   | Profiled NBR gasket                                                                                   | Profiled NBR gasket                                                                                                 |
| <b>Technical data</b>            |                                                                                                       |                                                                                                       |                                                                                                                     |
| Type of termination              | Screw contacts                                                                                        | Screw contacts                                                                                        | Screw contacts                                                                                                      |
| Contact screw torque             | 0.25 N*m                                                                                              | 0.25 N*m                                                                                              | 0.25 N*m                                                                                                            |
| Rated voltage                    | 250V AC/ 300VDC                                                                                       | 250V AC/ 300VDC                                                                                       | 250V AC/ 300VDC                                                                                                     |
| Circuit type                     | -                                                                                                     | -                                                                                                     | -                                                                                                                   |
| Led colour                       | -                                                                                                     | -                                                                                                     | -                                                                                                                   |
| Suitable cable                   | Ø cable 4-6mm                                                                                         | Ø cable 4-6mm                                                                                         | Ø cable 4-6mm                                                                                                       |
| Central fixing screw             | M2.5 L=28mm                                                                                           | M2.5 L=28mm                                                                                           | M2.5 L=28mm                                                                                                         |
| Central fixing screw material    | Iron + Zinc plated                                                                                    | Iron + Zinc plated                                                                                    | Iron + Zinc plated                                                                                                  |
| Central screw torque             | 0.4 N*m                                                                                               | 0.4 N*m                                                                                               | 0.4 N*m                                                                                                             |
| <b>Packaging</b>                 |                                                                                                       |                                                                                                       |                                                                                                                     |
| Qty/Box                          | 100pcs / box                                                                                          | 100pcs / box                                                                                          | 100pcs / box                                                                                                        |
| <b>Other accessories options</b> |                                                                                                       |                                                                                                       |                                                                                                                     |
| See accessories section          |                                                                                                       |                                                                                                       |                                                                                                                     |
| <b>Notes:</b>                    | Connector with Grey Housing: P/N P1GZ2000                                                             | Connector with Grey Housing: P/N P1GZ3000                                                             | Connector available with different circuits.                                                                        |



|                                                                                                                     |                                                                                                                      |                                                                                                                      |                                                                                                    |
|---------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
|                                                                                                                     |                                                                                                                      |                                                                                                                      |                                                                                                    |
| <b>Product description</b>                                                                                          |                                                                                                                      |                                                                                                                      |                                                                                                    |
| DIN valve connectors                                                                                                | DIN valve connectors                                                                                                 | DIN valve connectors                                                                                                 | DIN valve connectors                                                                               |
| EN175301-803                                                                                                        | EN175301-803                                                                                                         | EN175301-803                                                                                                         | EN175301-803                                                                                       |
| C                                                                                                                   | C                                                                                                                    | C                                                                                                                    | C                                                                                                  |
| <b>P1NZ3000-UL</b>                                                                                                  | <b>P1NZ2000-ATEX</b>                                                                                                 | <b>P1NZ3000-ATEX</b>                                                                                                 | <b>P1NZ2D03</b>                                                                                    |
| Square micro connector P1 series, UL approved, complete with gasket and fixing screw. Connector without electronic. | Square micro connector P1 series, ATEX conform, complete with gasket and fixing screw. Connector without electronic. | Square micro connector P1 series, ATEX conform, complete with gasket and fixing screw. Connector without electronic. | Square micro connector P1 series complete with gasket and fixing screw. Connector with electronic. |
| 8mm                                                                                                                 | 8mm                                                                                                                  | 8mm                                                                                                                  | 8mm                                                                                                |
| 3poles + P.E.                                                                                                       | 2poles + P.E.                                                                                                        | 3poles + P.E.                                                                                                        | 2poles + P.E.                                                                                      |
| H.6 (turnable)                                                                                                      | H.6 (turnable)                                                                                                       | H.6 (turnable)                                                                                                       | H.6 (turnable)                                                                                     |
| Black                                                                                                               | Black                                                                                                                | Black                                                                                                                | Black                                                                                              |
| 26mm                                                                                                                | 26mm                                                                                                                 | 26mm                                                                                                                 | 26mm                                                                                               |
| PG7                                                                                                                 | PG7                                                                                                                  | PG7                                                                                                                  | PG7                                                                                                |
| Profiled NBR gasket                                                                                                 | Flat Silicone gasket                                                                                                 | Flat Silicone gasket                                                                                                 | Profiled NBR gasket                                                                                |
| <b>Technical data</b>                                                                                               |                                                                                                                      |                                                                                                                      |                                                                                                    |
| Screw contacts                                                                                                      | Screw contacts                                                                                                       | Screw contacts                                                                                                       | Screw contacts                                                                                     |
| 0.25 N*m                                                                                                            | 0.25 N*m                                                                                                             | 0.25 N*m                                                                                                             | 0.25 N*m                                                                                           |
| 250V AC/ 300VDC                                                                                                     | 230V AC/ 300VDC                                                                                                      | 230V AC/ 300VDC                                                                                                      | 1-230V DC                                                                                          |
| -                                                                                                                   | -                                                                                                                    | -                                                                                                                    | Diode(1A)                                                                                          |
| -                                                                                                                   | -                                                                                                                    | -                                                                                                                    | -                                                                                                  |
| ø cable 4-6mm                                                                                                       | ø cable 4-6mm                                                                                                        | ø cable 4-6mm                                                                                                        | ø cable 4-6mm                                                                                      |
| M2.5 L=28mm                                                                                                         | M2.5 L=28mm                                                                                                          | M2.5 L=28mm                                                                                                          | M2.5 L=28mm                                                                                        |
| Iron+Zinc plated                                                                                                    | Iron+Zinc plated                                                                                                     | Iron+Zinc plated                                                                                                     | Iron+Zinc plated                                                                                   |
| 0.4 N/m                                                                                                             | 0.4 N*m                                                                                                              | 0.4 N*m                                                                                                              | 0.4 N*m                                                                                            |
| <b>Packaging</b>                                                                                                    |                                                                                                                      |                                                                                                                      |                                                                                                    |
| 100pcs / box                                                                                                        | Singly packed in plastic bag                                                                                         | Singly packed in plastic bag                                                                                         | 100pcs / box                                                                                       |
| <b>Other accessories options</b>                                                                                    |                                                                                                                      |                                                                                                                      |                                                                                                    |
| See accessories section                                                                                             |                                                                                                                      |                                                                                                                      |                                                                                                    |
| <b>Notes:</b><br>Connector available with different circuits.                                                       |                                                                                                                      |                                                                                                                      |                                                                                                    |



#### Technical drawing



#### Product description

|                    |                                                                                                    |                 |                 |                                                                                                    |                 |                 |                                                                                                    |                 |                 |
|--------------------|----------------------------------------------------------------------------------------------------|-----------------|-----------------|----------------------------------------------------------------------------------------------------|-----------------|-----------------|----------------------------------------------------------------------------------------------------|-----------------|-----------------|
| Connector type     | DIN valve connectors                                                                               |                 |                 | DIN valve connectors                                                                               |                 |                 | DIN valve connectors                                                                               |                 |                 |
| Conforms to        | EN175301-803                                                                                       |                 |                 | EN175301-803                                                                                       |                 |                 | EN175301-803                                                                                       |                 |                 |
| Construction type  | C                                                                                                  |                 |                 | C                                                                                                  |                 |                 | C                                                                                                  |                 |                 |
| Part number        | <b>P1T22L01</b>                                                                                    | <b>P1T22L02</b> | <b>P1T22L03</b> | <b>P1T22DL1</b>                                                                                    | <b>P1T22DL2</b> | <b>P1T22DL3</b> | <b>P1T22VL1</b>                                                                                    | <b>P1T22VL2</b> | <b>P1T22VL3</b> |
| Description        | Square micro connector P1 series complete with gasket and fixing screw. Connector with electronic. |                 |                 | Square micro connector P1 series complete with gasket and fixing screw. Connector with electronic. |                 |                 | Square micro connector P1 series complete with gasket and fixing screw. Connector with electronic. |                 |                 |
| Contacts spacing   | 8mm                                                                                                |                 |                 | 8mm                                                                                                |                 |                 | 8mm                                                                                                |                 |                 |
| Number of contacts | 2poles + P.E.                                                                                      |                 |                 | 2poles + P.E.                                                                                      |                 |                 | 2poles + P.E.                                                                                      |                 |                 |
| Earth positioning  | H.6 (turnable)                                                                                     |                 |                 | H.6 (turnable)                                                                                     |                 |                 | H.6 (turnable)                                                                                     |                 |                 |
| Housing colour     | Transparent                                                                                        |                 |                 | Transparent                                                                                        |                 |                 | Transparent                                                                                        |                 |                 |
| Housing height     | 26mm                                                                                               |                 |                 | 26mm                                                                                               |                 |                 | 26mm                                                                                               |                 |                 |
| Cable gland        | PG7                                                                                                |                 |                 | PG7                                                                                                |                 |                 | PG7                                                                                                |                 |                 |
| Gasket type        | Profiled NBR gasket                                                                                |                 |                 | Profiled NBR gasket                                                                                |                 |                 | Profiled NBR gasket                                                                                |                 |                 |

#### Technical data

|                               |                    |            |            |                    |         |         |                        |            |            |
|-------------------------------|--------------------|------------|------------|--------------------|---------|---------|------------------------|------------|------------|
| Type of termination           | Screw contacts     |            |            | Screw contacts     |         |         | Screw contacts         |            |            |
| Contact screw torque          | 0.25 N*m           |            |            | 0.25 N*m           |         |         | 0.25 N*m               |            |            |
| Rated voltage                 | 24V AC/DC          | 115V AC/DC | 230V AC/DC | 24V DC             | 115V DC | 230V DC | 24V AC/DC              | 115V AC/DC | 230V AC/DC |
| Circuit type                  | Bipolar led        |            |            | Led + Diode(1A)    |         |         | Bipolar Led + Varistor |            |            |
| Led colour                    | Red                |            |            | Red                |         |         | Red                    |            |            |
| Suitable cable                | ø cable 4-6mm      |            |            | ø cable 4-6mm      |         |         | ø cable 4-6mm          |            |            |
| Central fixing screw          | M2.5 L=28mm        |            |            | M2.5 L=28mm        |         |         | M2.5 L=28mm            |            |            |
| Central fixing screw material | Iron + Zinc plated |            |            | Iron + Zinc plated |         |         | Iron + Zinc plated     |            |            |
| Central screw torque          | 0.4 N*m            |            |            | 0.4 N*m            |         |         | 0.4 N*m                |            |            |

#### Packaging

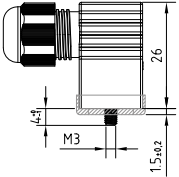
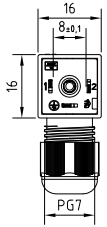
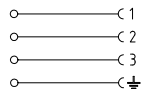
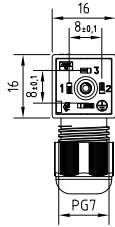
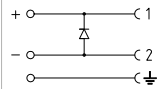
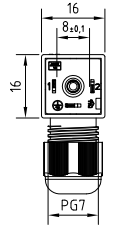
|         |              |              |              |
|---------|--------------|--------------|--------------|
| Qty/Box | 100pcs / box | 100pcs / box | 100pcs / box |
|---------|--------------|--------------|--------------|

#### Other accessories options

|                         |  |  |  |
|-------------------------|--|--|--|
| See accessories section |  |  |  |
|-------------------------|--|--|--|

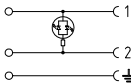
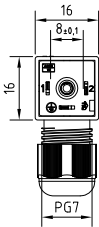
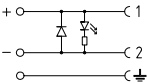
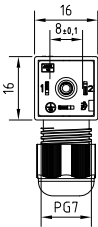
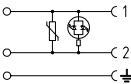
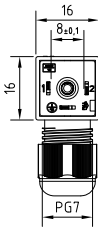
|        |                                               |                                               |                                               |
|--------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|
| Notes: | Connector available with different led colour | Connector available with different led colour | Connector available with different led colour |
|--------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|



|                                                                                                            |                                                                                                       |                                                                                                                                                                     |                                                                                                                                                                      |                                                                                                                                                                         |
|------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Technical drawing</b>  |                                                                                                       |   |   |   |
| <b>Product description</b>                                                                                 |                                                                                                       |                                                                                                                                                                     |                                                                                                                                                                      |                                                                                                                                                                         |
| Connector type                                                                                             | DIN valve connectors                                                                                  | DIN valve connectors                                                                                                                                                | DIN valve connectors                                                                                                                                                 | DIN valve connectors                                                                                                                                                    |
| Conforms to                                                                                                | EN175301-803                                                                                          | EN175301-803                                                                                                                                                        | EN175301-803                                                                                                                                                         | EN175301-803                                                                                                                                                            |
| Construction type                                                                                          | C                                                                                                     | C                                                                                                                                                                   | C                                                                                                                                                                    | C                                                                                                                                                                       |
| Part number                                                                                                | <b>P1NZ2000-SK</b>                                                                                    | <b>P1NZ3000-SK</b>                                                                                                                                                  | <b>P1NZ2D03-SK</b>                                                                                                                                                   |                                                                                                                                                                         |
| Description                                                                                                | Square micro connector P1 series complete with gasket and fixing screw. Connector without electronic. | Square micro connector P1 series complete with gasket and fixing screw. Connector without electronic.                                                               | Square micro connector P1 series complete with gasket and fixing screw. Connector with electronic.                                                                   |                                                                                                                                                                         |
| Contacts spacing                                                                                           | 8mm                                                                                                   | 8mm                                                                                                                                                                 | 8mm                                                                                                                                                                  |                                                                                                                                                                         |
| Number of contacts                                                                                         | 2poles + P.E.                                                                                         | 3poles + P.E.                                                                                                                                                       | 2poles + P.E.                                                                                                                                                        |                                                                                                                                                                         |
| Earth positioning                                                                                          | H.6 (turnable)                                                                                        | H.6 (turnable)                                                                                                                                                      | H.6 (turnable)                                                                                                                                                       |                                                                                                                                                                         |
| Housing colour                                                                                             | Black                                                                                                 | Black                                                                                                                                                               | Black                                                                                                                                                                |                                                                                                                                                                         |
| Housing height                                                                                             | 26mm                                                                                                  | 26mm                                                                                                                                                                | 26mm                                                                                                                                                                 |                                                                                                                                                                         |
| Cable gland                                                                                                | SK - PG7                                                                                              | SK - PG7                                                                                                                                                            | SK - PG7                                                                                                                                                             |                                                                                                                                                                         |
| Gasket type                                                                                                | Profiled NBR gasket                                                                                   | Profiled NBR gasket                                                                                                                                                 | Profiled NBR gasket                                                                                                                                                  |                                                                                                                                                                         |
| <b>Technical data</b>                                                                                      |                                                                                                       |                                                                                                                                                                     |                                                                                                                                                                      |                                                                                                                                                                         |
| Type of termination                                                                                        | Screw contacts                                                                                        | Screw contacts                                                                                                                                                      | Screw contacts                                                                                                                                                       |                                                                                                                                                                         |
| Contact screw torque                                                                                       | 0.25 N*m                                                                                              | 0.25 N*m                                                                                                                                                            | 0.25 N*m                                                                                                                                                             |                                                                                                                                                                         |
| Rated voltage                                                                                              | 250V AC/ 300VDC                                                                                       | 250V AC/ 300VDC                                                                                                                                                     | 1-230V DC                                                                                                                                                            |                                                                                                                                                                         |
| Circuit type                                                                                               | -                                                                                                     | -                                                                                                                                                                   | Diode(1A)                                                                                                                                                            |                                                                                                                                                                         |
| Led colour                                                                                                 | -                                                                                                     | -                                                                                                                                                                   | -                                                                                                                                                                    |                                                                                                                                                                         |
| Suitable cable                                                                                             | ø cable 3.5-5.5mm                                                                                     | ø cable 3.5-5.5mm                                                                                                                                                   | ø cable 3.5-5.5mm                                                                                                                                                    |                                                                                                                                                                         |
| Central fixing screw                                                                                       | M2.5 L=28mm                                                                                           | M2.5 L=28mm                                                                                                                                                         | M2.5 L=28mm                                                                                                                                                          |                                                                                                                                                                         |
| Central fixing screw material                                                                              | Iron+Zinc plated                                                                                      | Iron+Zinc plated                                                                                                                                                    | Iron+Zinc plated                                                                                                                                                     |                                                                                                                                                                         |
| Central screw torque                                                                                       | 0.4 N*m                                                                                               | 0.4 N*m                                                                                                                                                             | 0.4 N*m                                                                                                                                                              |                                                                                                                                                                         |
| <b>Packaging</b>                                                                                           |                                                                                                       |                                                                                                                                                                     |                                                                                                                                                                      |                                                                                                                                                                         |
| Qty/Box                                                                                                    | 100pcs / box                                                                                          | 100pcs / box                                                                                                                                                        | 100pcs / box                                                                                                                                                         |                                                                                                                                                                         |
| <b>Other accessories options</b>                                                                           |                                                                                                       |                                                                                                                                                                     |                                                                                                                                                                      |                                                                                                                                                                         |
| See accessories section                                                                                    |                                                                                                       |                                                                                                                                                                     |                                                                                                                                                                      |                                                                                                                                                                         |
| <b>Notes:</b>                                                                                              |                                                                                                       | Connector available with different circuits.                                                                                                                        | Connector available with different circuits.                                                                                                                         |                                                                                                                                                                         |





|                                                                                                                                                                     |                                                                                                                                                                     |                                                                                                                                                                      |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|   |   |   |  |
| <b>Product description</b>                                                                                                                                          |                                                                                                                                                                     |                                                                                                                                                                      |  |
| DIN valve connectors                                                                                                                                                | DIN valve connectors                                                                                                                                                | DIN valve connectors                                                                                                                                                 |  |
| EN175301-803                                                                                                                                                        | EN175301-803                                                                                                                                                        | EN175301-803                                                                                                                                                         |  |
| C                                                                                                                                                                   | C                                                                                                                                                                   | C                                                                                                                                                                    |  |
| <b>P1T22L01-SK P1T22L02-SK P1T22L03-SK</b>                                                                                                                          | <b>P1T22DL1-SK P1T22DL2-SK P1T22DL3-SK</b>                                                                                                                          | <b>P1T22VL2-SK P1T22VL3-SK P1T22VL1-SK</b>                                                                                                                           |  |
| Square micro connector P1 series complete with gasket and fixing screw. Connector with electronic.                                                                  | Square micro connector P1 series complete with gasket and fixing screw. Connector with electronic.                                                                  | Square micro connector P1 series complete with gasket and fixing screw. Connector with electronic.                                                                   |  |
| 8mm                                                                                                                                                                 | 8mm                                                                                                                                                                 | 8mm                                                                                                                                                                  |  |
| 2poles + P.E.                                                                                                                                                       | 2poles + P.E.                                                                                                                                                       | 2poles + P.E.                                                                                                                                                        |  |
| H.6 (turnable)                                                                                                                                                      | H.6 (turnable)                                                                                                                                                      | H.6 (turnable)                                                                                                                                                       |  |
| Transparent                                                                                                                                                         | Transparent                                                                                                                                                         | Transparent                                                                                                                                                          |  |
| 26mm                                                                                                                                                                | 26mm                                                                                                                                                                | 26mm                                                                                                                                                                 |  |
| SK - PG7                                                                                                                                                            | SK - PG7                                                                                                                                                            | SK - PG7                                                                                                                                                             |  |
| Profiled NBR gasket                                                                                                                                                 | Profiled NBR gasket                                                                                                                                                 | Profiled NBR gasket                                                                                                                                                  |  |
| <b>Technical data</b>                                                                                                                                               |                                                                                                                                                                     |                                                                                                                                                                      |  |
| Screw contacts                                                                                                                                                      | Screw contacts                                                                                                                                                      | Screw contacts                                                                                                                                                       |  |
| 0.25 N*m                                                                                                                                                            | 0.25 N*m                                                                                                                                                            | 0.25 N*m                                                                                                                                                             |  |
| 24V AC/DC 115V AC/DC 230V AC/DC                                                                                                                                     | 24V DC 115V DC 230V DC                                                                                                                                              | 24V AC/DC 115V AC/DC 230V AC/DC                                                                                                                                      |  |
| Bipolar led                                                                                                                                                         | Led + Diode(1A)                                                                                                                                                     | Bipolar Led + Varistor                                                                                                                                               |  |
| Red                                                                                                                                                                 | Red                                                                                                                                                                 | Red                                                                                                                                                                  |  |
| ø cable 3.5-5.5mm                                                                                                                                                   | ø cable 3.5-5.5mm                                                                                                                                                   | ø cable 3.5-5.5mm                                                                                                                                                    |  |
| M2.5 L=28mm                                                                                                                                                         | M2.5 L=28mm                                                                                                                                                         | M2.5 L=28mm                                                                                                                                                          |  |
| Iron + Zinc plated                                                                                                                                                  | Iron + Zinc plated                                                                                                                                                  | Iron + Zinc plated                                                                                                                                                   |  |
|                                                                                                                                                                     | 0.4 N*m                                                                                                                                                             | 0.4 N*m                                                                                                                                                              |  |
| <b>Packaging</b>                                                                                                                                                    |                                                                                                                                                                     |                                                                                                                                                                      |  |
| 100pcs / box                                                                                                                                                        | 100pcs / box                                                                                                                                                        | 100pcs / box                                                                                                                                                         |  |
| <b>Other accessories options</b>                                                                                                                                    |                                                                                                                                                                     |                                                                                                                                                                      |  |
| See accessories section                                                                                                                                             |                                                                                                                                                                     |                                                                                                                                                                      |  |
| <b>Notes:</b>                                                                                                                                                       |                                                                                                                                                                     |                                                                                                                                                                      |  |
| Connector available with different led colour                                                                                                                       | Connector available with different led colour                                                                                                                       | Connector available with different led colour                                                                                                                        |  |



|                                  |                                                                                                       |                                                                                                       |  |                                                                                                                     |  |
|----------------------------------|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------|--|
| <b>Technical drawing</b>         |                                                                                                       |                                                                                                       |  |                                                                                                                     |  |
| <b>Product description</b>       |                                                                                                       |                                                                                                       |  |                                                                                                                     |  |
| Connector type                   | DIN valve connectors                                                                                  | DIN valve connectors                                                                                  |  | DIN valve connectors                                                                                                |  |
| Conforms to                      | Industrial                                                                                            | Industrial                                                                                            |  | Industrial                                                                                                          |  |
| Construction type                | C                                                                                                     | C                                                                                                     |  | C                                                                                                                   |  |
| Part number                      | <b>P2NZ2000</b>                                                                                       | <b>P2NZ3000</b>                                                                                       |  | <b>P2NZ2000-UL</b>                                                                                                  |  |
| Description                      | Square micro connector P2 series complete with gasket and fixing screw. Connector without electronic. | Square micro connector P2 series complete with gasket and fixing screw. Connector without electronic. |  | Square micro connector P2 series, UL approved, complete with gasket and fixing screw. Connector without electronic. |  |
| Contacts spacing                 | 9.4mm                                                                                                 | 9.4mm                                                                                                 |  | 9.4mm                                                                                                               |  |
| Number of contacts               | 2poles + P.E.                                                                                         | 3poles + P.E.                                                                                         |  | 2poles + P.E.                                                                                                       |  |
| Earth positioning                | H.6 (turnable)                                                                                        | H.6 (turnable)                                                                                        |  | H.6 (turnable)                                                                                                      |  |
| Housing colour                   | Black                                                                                                 | Black                                                                                                 |  | Black                                                                                                               |  |
| Housing height                   | 26mm                                                                                                  | 26mm                                                                                                  |  | 26mm                                                                                                                |  |
| Cable gland                      | PG7                                                                                                   | PG7                                                                                                   |  | PG7                                                                                                                 |  |
| Gasket type                      | Profiled NBR gasket                                                                                   | Profiled NBR gasket                                                                                   |  | Profiled NBR gasket                                                                                                 |  |
| <b>Technical data</b>            |                                                                                                       |                                                                                                       |  |                                                                                                                     |  |
| Type of termination              | Screw contacts                                                                                        | Screw contacts                                                                                        |  | Screw contacts                                                                                                      |  |
| Contact screw torque             | 0.25 N*m                                                                                              | 0.25 N*m                                                                                              |  | 0.25 N*m                                                                                                            |  |
| Rated voltage                    | 250V AC/ 300VDC                                                                                       | 250V AC/ 300VDC                                                                                       |  | 250V AC/ 300VDC                                                                                                     |  |
| Circuit type                     | -                                                                                                     | -                                                                                                     |  | -                                                                                                                   |  |
| Led colour                       | -                                                                                                     | -                                                                                                     |  | -                                                                                                                   |  |
| Suitable cable                   | Ø cable 4-6mm                                                                                         | Ø cable 4-6mm                                                                                         |  | Ø cable 4-6mm                                                                                                       |  |
| Central fixing screw             | M3 L=28mm                                                                                             | M3 L=28mm                                                                                             |  | M3 L=28mm                                                                                                           |  |
| Central fixing screw material    | Iron+Zinc plated                                                                                      | Iron+Zinc plated                                                                                      |  | Iron+Zinc plated                                                                                                    |  |
| Central screw torque             | 0.5 N*m                                                                                               | 0.5 N*m                                                                                               |  | 0.5 N*m                                                                                                             |  |
| <b>Packaging</b>                 |                                                                                                       |                                                                                                       |  |                                                                                                                     |  |
| Qty/Box                          | 100pcs / box                                                                                          | 100pcs / box                                                                                          |  | 100pcs / box                                                                                                        |  |
| <b>Other accessories options</b> |                                                                                                       |                                                                                                       |  |                                                                                                                     |  |
| See accessories section          |                                                                                                       |                                                                                                       |  |                                                                                                                     |  |
| <b>Notes:</b>                    |                                                                                                       | Connector with Grey Housing: P/N P2GZ2000                                                             |  | Connector with Grey Housing: P/N P2GZ3000                                                                           |  |
|                                  |                                                                                                       |                                                                                                       |  | Connector available with different circuits.                                                                        |  |



|          |          |          |          |
|----------|----------|----------|----------|
| <br><br> | <br><br> | <br><br> | <br><br> |
|----------|----------|----------|----------|

#### Product description

|                                                                                                                     |                                                                                                                      |                                                                                                                      |                                                                                                    |
|---------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| DIN valve connectors                                                                                                | DIN valve connectors                                                                                                 | DIN valve connectors                                                                                                 | DIN valve connectors                                                                               |
| Industrial                                                                                                          | Industrial                                                                                                           | Industrial                                                                                                           | Industrial                                                                                         |
| C                                                                                                                   | C                                                                                                                    | C                                                                                                                    | C                                                                                                  |
| <b>P2NZ3000-UL</b>                                                                                                  | <b>P2NZ2000-ATEX</b>                                                                                                 | <b>P2NZ3000-ATEX</b>                                                                                                 | <b>P2NZ2D03</b>                                                                                    |
| Square micro connector P2 series, UL approved, complete with gasket and fixing screw. Connector without electronic. | Square micro connector P2 series, ATEX conform, complete with gasket and fixing screw. Connector without electronic. | Square micro connector P2 series, ATEX conform, complete with gasket and fixing screw. Connector without electronic. | Square micro connector P2 series complete with gasket and fixing screw. Connector with electronic. |
| 9.4mm                                                                                                               | 9.4mm                                                                                                                | 9.4mm                                                                                                                | 9.4mm                                                                                              |
| 3poles + P.E.                                                                                                       | 2poles + P.E.                                                                                                        | 3poles + P.E.                                                                                                        | 2poles + P.E.                                                                                      |
| H.6 (turnable)                                                                                                      | H.6 (turnable)                                                                                                       | H.6 (turnable)                                                                                                       | H.6 (turnable)                                                                                     |
| Black                                                                                                               | Black                                                                                                                | Black                                                                                                                | Black                                                                                              |
| 26mm                                                                                                                | 26mm                                                                                                                 | 26mm                                                                                                                 | 26mm                                                                                               |
| PG7                                                                                                                 | PG7                                                                                                                  | PG7                                                                                                                  | PG7                                                                                                |
| Profiled NBR gasket                                                                                                 | Flat Silicone gasket                                                                                                 | Flat Silicone gasket                                                                                                 | Profiled NBR gasket                                                                                |

#### Technical data

|                    |                    |                    |                    |
|--------------------|--------------------|--------------------|--------------------|
| Screw contacts     | Screw contacts     | Screw contacts     | Screw contacts     |
| 0.25 N*m           | 0.25 N*m           | 0.25 N*m           | 0.25 N*m           |
| 250V AC/ 300VDC    | 230V AC/ 300VDC    | 230V AC/ 300VDC    | 1-230V DC          |
| -                  | -                  | -                  | Diode(1A)          |
| -                  | -                  | -                  | -                  |
| ø cable 4-6mm      | ø cable 4-6mm      | ø cable 4-6mm      | ø cable 4-6mm      |
| M3 L=28mm          | M3 L=28mm          | M3 L=28mm          | M3 L=28mm          |
| Iron + Zinc plated | Iron + Zinc plated | Iron + Zinc plated | Iron + Zinc plated |
| 0.5 N*m            | 0.5 N*m            | 0.5 N*m            | 0.5 N*m            |

#### Packaging

|              |                              |                              |              |
|--------------|------------------------------|------------------------------|--------------|
| 100pcs / box | Singly packed in plastic bag | Singly packed in plastic bag | 100pcs / box |
|--------------|------------------------------|------------------------------|--------------|

#### Other accessories options

|                         |  |  |  |
|-------------------------|--|--|--|
| See accessories section |  |  |  |
|-------------------------|--|--|--|

#### Notes:

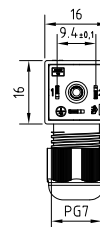
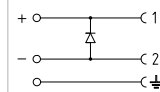
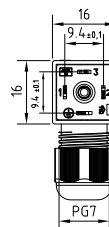
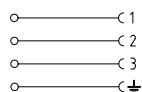
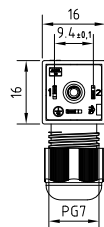
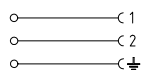
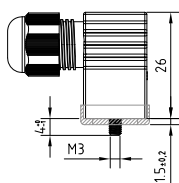
|                                              |  |  |  |
|----------------------------------------------|--|--|--|
| Connector available with different circuits. |  |  |  |
|----------------------------------------------|--|--|--|



|                                  |  |                                                                                                    |  |                                               |  |                                                                                                    |  |                                               |  |                                                                                                    |  |                                               |  |                                                                                                    |  |                                               |  |                                               |  |
|----------------------------------|--|----------------------------------------------------------------------------------------------------|--|-----------------------------------------------|--|----------------------------------------------------------------------------------------------------|--|-----------------------------------------------|--|----------------------------------------------------------------------------------------------------|--|-----------------------------------------------|--|----------------------------------------------------------------------------------------------------|--|-----------------------------------------------|--|-----------------------------------------------|--|
| <b>Technical drawing</b>         |  |                                                                                                    |  |                                               |  |                                                                                                    |  |                                               |  |                                                                                                    |  |                                               |  |                                                                                                    |  |                                               |  |                                               |  |
| <b>Product description</b>       |  |                                                                                                    |  |                                               |  |                                                                                                    |  |                                               |  |                                                                                                    |  |                                               |  |                                                                                                    |  |                                               |  |                                               |  |
| Connector type                   |  | DIN valve connectors                                                                               |  |                                               |  | DIN valve connectors                                                                               |  | DIN valve connectors                          |  | DIN valve connectors                                                                               |  |                                               |  |                                                                                                    |  |                                               |  |                                               |  |
| Conforms to                      |  | Industrial                                                                                         |  |                                               |  | Industrial                                                                                         |  | Industrial                                    |  | Industrial                                                                                         |  |                                               |  |                                                                                                    |  |                                               |  |                                               |  |
| Construction type                |  | C                                                                                                  |  |                                               |  | C                                                                                                  |  | C                                             |  | C                                                                                                  |  |                                               |  |                                                                                                    |  |                                               |  |                                               |  |
| Part number                      |  | <b>P2TZ2L01</b>                                                                                    |  | <b>P2TZ2L02</b>                               |  | <b>P2TZ2L03</b>                                                                                    |  | <b>P2TZ2DL1</b>                               |  | <b>P2TZ2DL2</b>                                                                                    |  | <b>P2TZ2DL3</b>                               |  | <b>P2TZ2VL1</b>                                                                                    |  | <b>P2TZ2VL2</b>                               |  | <b>P2TZ2VL3</b>                               |  |
| Description                      |  | Square micro connector P2 series complete with gasket and fixing screw. Connector with electronic. |  |                                               |  | Square micro connector P2 series complete with gasket and fixing screw. Connector with electronic. |  |                                               |  | Square micro connector P2 series complete with gasket and fixing screw. Connector with electronic. |  |                                               |  | Square micro connector P2 series complete with gasket and fixing screw. Connector with electronic. |  |                                               |  |                                               |  |
| Contacts spacing                 |  | 9.4mm                                                                                              |  |                                               |  | 9.4mm                                                                                              |  | 9.4mm                                         |  | 9.4mm                                                                                              |  | 9.4mm                                         |  | 9.4mm                                                                                              |  | 9.4mm                                         |  | 9.4mm                                         |  |
| Number of contacts               |  | 2poles + P.E.                                                                                      |  |                                               |  | 2poles + P.E.                                                                                      |  | 2poles + P.E.                                 |  | 2poles + P.E.                                                                                      |  | 2poles + P.E.                                 |  | 2poles + P.E.                                                                                      |  | 2poles + P.E.                                 |  | 2poles + P.E.                                 |  |
| Earth positioning                |  | H.6 (turnable)                                                                                     |  |                                               |  | H.6 (turnable)                                                                                     |  | H.6 (turnable)                                |  | H.6 (turnable)                                                                                     |  | H.6 (turnable)                                |  | H.6 (turnable)                                                                                     |  | H.6 (turnable)                                |  | H.6 (turnable)                                |  |
| Housing colour                   |  | Transparent                                                                                        |  |                                               |  | Transparent                                                                                        |  | Transparent                                   |  | Transparent                                                                                        |  | Transparent                                   |  | Transparent                                                                                        |  | Transparent                                   |  | Transparent                                   |  |
| Housing height                   |  | 26mm                                                                                               |  |                                               |  | 26mm                                                                                               |  | 26mm                                          |  | 26mm                                                                                               |  | 26mm                                          |  | 26mm                                                                                               |  | 26mm                                          |  | 26mm                                          |  |
| Cable gland                      |  | PG7                                                                                                |  |                                               |  | PG7                                                                                                |  | PG7                                           |  | PG7                                                                                                |  | PG7                                           |  | PG7                                                                                                |  | PG7                                           |  | PG7                                           |  |
| Gasket type                      |  | Profiled NBR gasket                                                                                |  |                                               |  | Profiled NBR gasket                                                                                |  | Profiled NBR gasket                           |  | Profiled NBR gasket                                                                                |  | Profiled NBR gasket                           |  | Profiled NBR gasket                                                                                |  | Profiled NBR gasket                           |  | Profiled NBR gasket                           |  |
| <b>Technical data</b>            |  |                                                                                                    |  |                                               |  |                                                                                                    |  |                                               |  |                                                                                                    |  |                                               |  |                                                                                                    |  |                                               |  |                                               |  |
| Type of termination              |  | Screw contacts                                                                                     |  |                                               |  | Screw contacts                                                                                     |  | Screw contacts                                |  | Screw contacts                                                                                     |  | Screw contacts                                |  | Screw contacts                                                                                     |  | Screw contacts                                |  | Screw contacts                                |  |
| Contact screw torque             |  | 0.25 N*m                                                                                           |  |                                               |  | 0.25 N*m                                                                                           |  | 0.25 N*m                                      |  | 0.25 N*m                                                                                           |  | 0.25 N*m                                      |  | 0.25 N*m                                                                                           |  | 0.25 N*m                                      |  | 0.25 N*m                                      |  |
| Rated voltage                    |  | 24V AC/DC                                                                                          |  | 115V AC/DC                                    |  | 230V AC/DC                                                                                         |  | 24V DC                                        |  | 115V DC                                                                                            |  | 230V DC                                       |  | 24V AC/DC                                                                                          |  | 115V AC/DC                                    |  | 230V AC/DC                                    |  |
| Circuit type                     |  | Bipolar led                                                                                        |  |                                               |  | Led + Diode(1A)                                                                                    |  | Led + Diode(1A)                               |  | Led + Diode(1A)                                                                                    |  | Led + Diode(1A)                               |  | Bipolar Led + Varistor                                                                             |  | Bipolar Led + Varistor                        |  | Bipolar Led + Varistor                        |  |
| Led colour                       |  | Red                                                                                                |  |                                               |  | Red                                                                                                |  | Red                                           |  | Red                                                                                                |  | Red                                           |  | Red                                                                                                |  | Red                                           |  | Red                                           |  |
| Suitable cable                   |  | ø cable 4-6mm                                                                                      |  |                                               |  | ø cable 4-6mm                                                                                      |  | ø cable 4-6mm                                 |  | ø cable 4-6mm                                                                                      |  | ø cable 4-6mm                                 |  | ø cable 4-6mm                                                                                      |  | ø cable 4-6mm                                 |  | ø cable 4-6mm                                 |  |
| Central fixing screw             |  | M3 L=28mm                                                                                          |  |                                               |  | M3 L=28mm                                                                                          |  | M3 L=28mm                                     |  | M3 L=28mm                                                                                          |  | M3 L=28mm                                     |  | M3 L=28mm                                                                                          |  | M3 L=28mm                                     |  | M3 L=28mm                                     |  |
| Central fixing screw material    |  | Iron+Zinc plated                                                                                   |  |                                               |  | Iron+Zinc plated                                                                                   |  | Iron+Zinc plated                              |  | Iron+Zinc plated                                                                                   |  | Iron+Zinc plated                              |  | Iron+Zinc plated                                                                                   |  | Iron+Zinc plated                              |  | Iron+Zinc plated                              |  |
| Central screw torque             |  | 0.5 N*m                                                                                            |  |                                               |  | 0.5 N*m                                                                                            |  | 0.5 N*m                                       |  | 0.5 N*m                                                                                            |  | 0.5 N*m                                       |  | 0.5 N*m                                                                                            |  | 0.5 N*m                                       |  | 0.5 N*m                                       |  |
| <b>Packaging</b>                 |  |                                                                                                    |  |                                               |  |                                                                                                    |  |                                               |  |                                                                                                    |  |                                               |  |                                                                                                    |  |                                               |  |                                               |  |
| Qty/Box                          |  | 100pcs / box                                                                                       |  |                                               |  | 100pcs / box                                                                                       |  | 100pcs / box                                  |  | 100pcs / box                                                                                       |  | 100pcs / box                                  |  | 100pcs / box                                                                                       |  | 100pcs / box                                  |  | 100pcs / box                                  |  |
| <b>Other accessories options</b> |  |                                                                                                    |  |                                               |  |                                                                                                    |  |                                               |  |                                                                                                    |  |                                               |  |                                                                                                    |  |                                               |  |                                               |  |
| See accessories section          |  |                                                                                                    |  |                                               |  |                                                                                                    |  |                                               |  |                                                                                                    |  |                                               |  |                                                                                                    |  |                                               |  |                                               |  |
| <b>Notes:</b>                    |  |                                                                                                    |  | Connector available with different led colour |  |                                                                                                    |  | Connector available with different led colour |  | Connector available with different led colour                                                      |  | Connector available with different led colour |  | Connector available with different led colour                                                      |  | Connector available with different led colour |  | Connector available with different led colour |  |



#### Technical drawing



#### Product description

|                    |                                                                                                       |                                                                                                       |                                                                                                    |
|--------------------|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| Connector type     | DIN valve connectors                                                                                  | DIN valve connectors                                                                                  | DIN valve connectors                                                                               |
| Conforms to        | Industrial                                                                                            | Industrial                                                                                            | Industrial                                                                                         |
| Construction type  | C                                                                                                     | C                                                                                                     | C                                                                                                  |
| Part number        | <b>P2NZ2000-SK</b>                                                                                    | <b>P2NZ3000-SK</b>                                                                                    | <b>P2NZ2D03-SK</b>                                                                                 |
| Description        | Square micro connector P2 series complete with gasket and fixing screw. Connector without electronic. | Square micro connector P2 series complete with gasket and fixing screw. Connector without electronic. | Square micro connector P2 series complete with gasket and fixing screw. Connector with electronic. |
| Contacts spacing   | 9.4mm                                                                                                 | 9.4mm                                                                                                 | 9.4mm                                                                                              |
| Number of contacts | 2poles + P.E.                                                                                         | 3poles + P.E.                                                                                         | 2poles + P.E.                                                                                      |
| Earth positioning  | H.6 (turnable)                                                                                        | H.6 (turnable)                                                                                        | H.6 (turnable)                                                                                     |
| Housing colour     | Black                                                                                                 | Black                                                                                                 | Black                                                                                              |
| Housing height     | 26mm                                                                                                  | 26mm                                                                                                  | 26mm                                                                                               |
| Cable gland        | SK - PG7                                                                                              | SK - PG7                                                                                              | SK - PG7                                                                                           |
| Gasket type        | Profiled NBR gasket                                                                                   | Profiled NBR gasket                                                                                   | Profiled NBR gasket                                                                                |

#### Technical data

|                               |                    |                    |                    |
|-------------------------------|--------------------|--------------------|--------------------|
| Type of termination           | Screw contacts     | Screw contacts     | Screw contacts     |
| Contact screw torque          | 0.25 N*m           | 0.25 N*m           | 0.25 N*m           |
| Rated voltage                 | 250V AC/ 300VDC    | 250V AC/ 300VDC    | 1-230V DC          |
| Circuit type                  | -                  | -                  | Diode(1A)          |
| Led colour                    | -                  | -                  | -                  |
| Suitable cable                | Ø cable 3.5-5.5mm  | Ø cable 3.5-5.5mm  | Ø cable 3.5-5.5mm  |
| Central fixing screw          | M3 L=28mm          | M3 L=28mm          | M3 L=28mm          |
| Central fixing screw material | Iron + Zinc plated | Iron + Zinc plated | Iron + Zinc plated |
| Central screw torque          | 0.4 N*m            | 0.4 N*m            | 0.4 N*m            |

#### Packaging

|         |              |              |              |
|---------|--------------|--------------|--------------|
| Qty/Box | 100pcs / box | 100pcs / box | 100pcs / box |
|---------|--------------|--------------|--------------|

#### Other accessories options

|                         |  |  |  |
|-------------------------|--|--|--|
| See accessories section |  |  |  |
|-------------------------|--|--|--|

|               |                                              |                                              |  |
|---------------|----------------------------------------------|----------------------------------------------|--|
| <b>Notes:</b> | Connector available with different circuits. | Connector available with different circuits. |  |
|---------------|----------------------------------------------|----------------------------------------------|--|



|                                  |                                                                                                    |            |                                                                                                    |
|----------------------------------|----------------------------------------------------------------------------------------------------|------------|----------------------------------------------------------------------------------------------------|
| <b>Technical drawing</b>         |                                                                                                    |            |                                                                                                    |
|                                  |                                                                                                    |            |                                                                                                    |
| <b>Product description</b>       |                                                                                                    |            |                                                                                                    |
| Connector type                   | DIN valve connectors                                                                               |            | DIN valve connectors                                                                               |
| Conforms to                      | Industrial                                                                                         |            | Industrial                                                                                         |
| Construction type                | C                                                                                                  |            | C                                                                                                  |
| Part number                      | <b>P2TZ2L01-SK P2TZ2L02-SK P2TZ2L03-SK</b>                                                         |            | <b>P2TZ2DL1-SK P2TZ2DL2-SK P2TZ2DL3-SK</b>                                                         |
| Description                      | Square micro connector P2 series complete with gasket and fixing screw. Connector with electronic. |            | Square micro connector P2 series complete with gasket and fixing screw. Connector with electronic. |
| Contacts spacing                 | 9.4mm                                                                                              |            | 9.4mm                                                                                              |
| Number of contacts               | 2poles + P.E.                                                                                      |            | 2poles + P.E.                                                                                      |
| Earth positioning                | H.6 (turnable)                                                                                     |            | H.6 (turnable)                                                                                     |
| Housing colour                   | Transparent                                                                                        |            | Transparent                                                                                        |
| Housing height                   | 26mm                                                                                               |            | 26mm                                                                                               |
| Cable gland                      | SK - PG7                                                                                           |            | SK - PG7                                                                                           |
| Gasket type                      | Profiled NBR gasket                                                                                |            | Profiled NBR gasket                                                                                |
| <b>Technical data</b>            |                                                                                                    |            |                                                                                                    |
| Type of termination              | Screw contacts                                                                                     |            | Screw contacts                                                                                     |
|                                  | 0.25 N*m                                                                                           |            | 0.25 N*m                                                                                           |
| Rated voltage                    | 24V AC/DC                                                                                          | 115V AC/DC | 230V AC/DC                                                                                         |
| Circuit type                     | Bipolar led                                                                                        |            | Bipolar Led + Varistor                                                                             |
| Led colour                       | Red                                                                                                |            | Red                                                                                                |
| Suitable cable                   | ø cable 3.5-5.5mm                                                                                  |            | ø cable 3.5-5.5mm                                                                                  |
| Central fixing screw             | M3 L=28mm                                                                                          |            | M3 L=28mm                                                                                          |
| Central fixing screw material    | Iron+Zinc plated                                                                                   |            | Iron+Zinc plated                                                                                   |
| Central screw torque             | 0.4 N*m                                                                                            |            | 0.4 N*m                                                                                            |
| <b>Packaging</b>                 |                                                                                                    |            |                                                                                                    |
| Qty/Box                          | 100pcs / box                                                                                       |            | 100pcs / box                                                                                       |
| <b>Other accessories options</b> |                                                                                                    |            |                                                                                                    |
| See accessories section          |                                                                                                    |            |                                                                                                    |
| <b>Notes:</b>                    | Connector available with different led colour                                                      |            | Connector available with different led colour                                                      |

● GENERAL FEATURES:

**Conductor cross section :**  
0.34(22AWG) ... 1.50mm<sup>2</sup>(16AWG).

**Fixing system :**  
Central fixing screw.

**Max. screw torque IEC60947-1**  
(Central fixing screw) :  
CG1-CM1-CM2-CP2 series: Max. 0.5 N \* m.  
CP1 series: Max. 0.4 N \* m.

**Type of terminations :**  
To solder.

**Contact material and treatment :**  
Brass + Silver plated.

**Housing material :**  
Polypropylene.

**Internal core material :**  
PA66.

**Flammability resistance :**  
UL94-V2 - Standard  
UL94-V0 - UL approved

**Protection class :**  
IP67.

**Operating temperature :**  
-25°C +90°C (connector).  
-25°C +120°C (UL approved connector).  
(NBR gasket -40°C +90°C).  
(Silicone gasket -40°C +125°C).

**Nominal current :**  
CG1-CG5-CM1-CM2 series: 10A.  
CP1-CP2 series: 3A.

CG1

N

0

2

00

0

C

02

2

-

##

**SERIES**

CG1 : EN175301-803 form A (18mm).  
CBG1 : EN175301-803 form A (18mm)with MALE contacts.  
CG5 : form A (18mm) height ~33mm.  
CGB : EN175301-803 form A (18mm) EXIT CABLE 180°.  
CBGB : EN175301-803 form A (18mm) EXIT CABLE 180° WITH MALE CONTACTS.  
CM1 : INDUSTRIAL form B (11mm).  
CM2 : EN175301-803 form B (10mm).  
CM1B : INDUSTRIAL form B (11mm) EXIT CABLE 180°.  
CP1 : EN175301-803 form C (8mm).  
CBP1 : EN175301-803 form C (8mm) WITH MALE CONTACTS.  
CP2 : MICRO INDUSTRIAL form C (9.4mm).  
CBP2 : MICRO INDUSTRIAL form C (9.4mm) WITH MALE CONTACTS.  
CP2C : MICRO INDUSTRIAL form C (9.4mm) EXIT CABLE 180°.

**COLOUR**

G : GREY. N : BLACK (STANDARD).

**CABLE EXIT**

0 : MOULDED CABLE.

**POLES No.**

2 : 2POLES + EARTH. 3 : 3POLES + EARTH.

**CIRCUIT TYPE**

SEE CIRCUITS FEATURES PAGE.

**VOLTAGE**

0 : 250V / 300V. 1 : 24V. 2 : 115V. 3 : 230V. 4 : 12V. 5 : 48V.

**EARTH POSITION**

A : H.6. B : H.12. C : DOUBLE H.6-12. D : H.3. E : H.9. F : DOUBLE H. 3-9.

**CABLE TYPE**

SEE CABLES FEATURES PAGE.

**CABLE LENGTH**

1 : 1m A : +10cm  
2 : 2m B : +20cm  
3 : 3m C : +30cm  
...  
I : +90cm

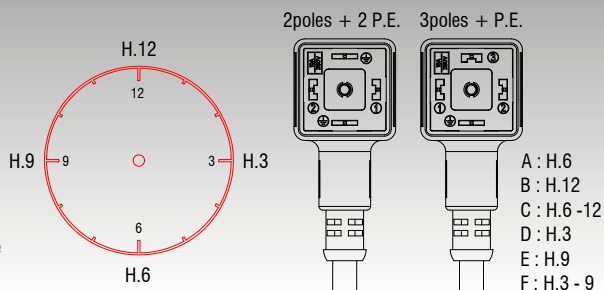
EXAMPLE: "...2C" = 2.3m  
"...2P" = 2.6m  
"...2I" = 2.9m

**SOME VARIABLES**

L : PROFILED GASKET. SS : STAINLESS STEEL SCREW. Y : WITHOUT H.T.P.LOGO. UL : ULapproved (CG1/CG5 connectors - WITHOUT ELECTRONIC)  
4D : BRIDGE RECTIFIER WITH 4 DIODES. 3A : ELECTRONIC COMPONENTS 3A.  
12MA3 : EXTENSION M12 MALE 90° 3p. 12MD3 : EXTENSION M12 MALE 180° 3p.  
12FA3 : EXTENSION M12 FEMALE 90° 3p. 12FD3 : EXTENSION M12 FEMALE 180° 3p.

**EARTH PIN POSITION**

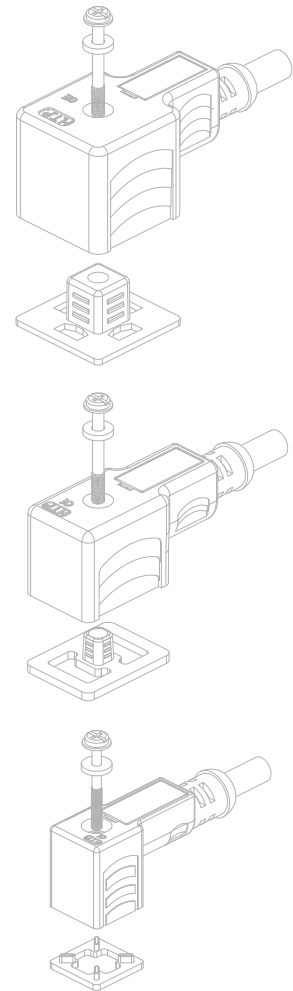
Earth pin position for the DIN43650 valve connectors with moulded cable has to be specified because its internal core is fixed.  
The internal core cannot rotate as in the field attachable connectors.  
To define the earth pin position it is necessary to look at the face view of the connector with the cable exit side down.  
To easily identify the earth pin position you can compare the face view of the connector to a clock face view.



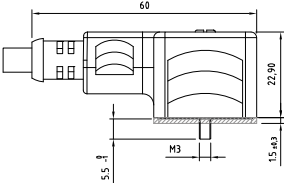
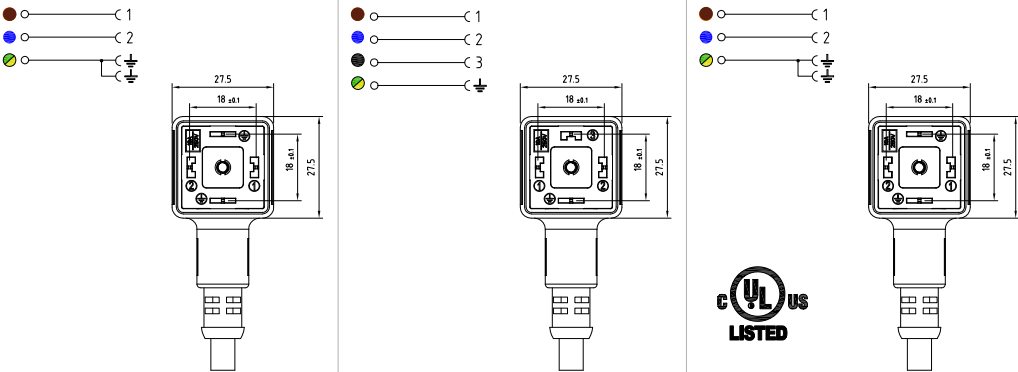
**STANDARD CONNECTION:**

2 P. + 2 P.E.:  
1 : BROWN ●  
2 : BLUE ●  
P.E. : YELLOW-GREEN ●

3 P. + P.E.:  
1 : BROWN ●  
2 : BLUE ●  
3 : BLACK ●  
P.E. : YELLOW-GREEN ●



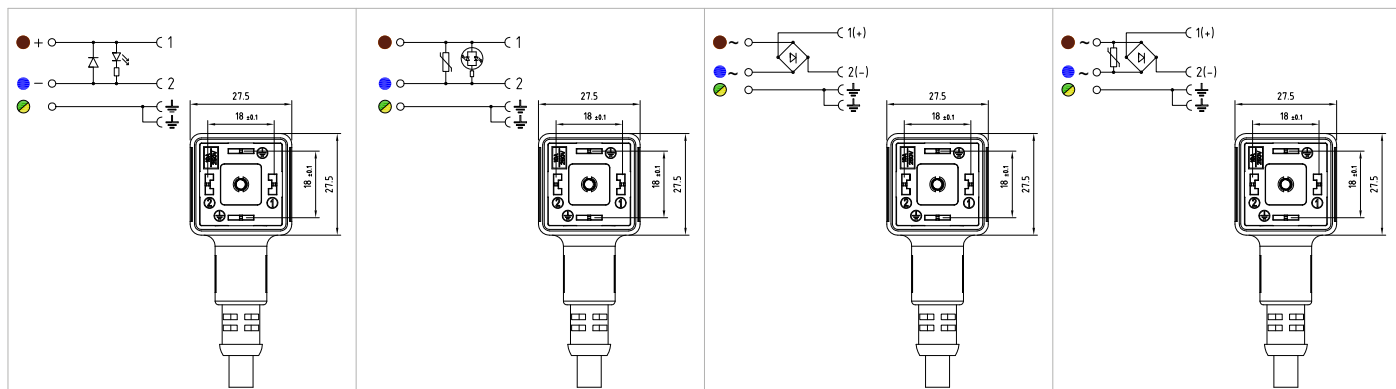


|                                                                                                                                        |                                                                                                  |                                                                                                  |                                                                                                                |
|----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| <b>Technical drawing</b>                              |                                                                                                  |                                                                                                  |                                                                                                                |
|                                                      |                                                                                                  |                                                                                                  |                                                                                                                |
| <b>Product description</b>                                                                                                             |                                                                                                  |                                                                                                  |                                                                                                                |
| Connector type                                                                                                                         | DIN valve connectors                                                                             | DIN valve connectors                                                                             | DIN valve connectors                                                                                           |
| Conforms to                                                                                                                            | EN175301-803                                                                                     | EN175301-803                                                                                     | EN175301-803                                                                                                   |
| Construction type                                                                                                                      | A                                                                                                | A                                                                                                | A                                                                                                              |
| Part number                                                                                                                            | <b>CG1N02000C021</b>                                                                             | <b>CG1N03000AB21</b>                                                                             | <b>CG1N02000C161-UL</b>                                                                                        |
| Description                                                                                                                            | Square connector CG1 series complete with gasket and fixing screw. Connector without electronic. | Square connector CG1 series complete with gasket and fixing screw. Connector without electronic. | Square connector CG1 series, UL approved, complete with gasket and fixing screw. Connector without electronic. |
| Contacts spacing                                                                                                                       | 18mm                                                                                             | 18mm                                                                                             | 18mm                                                                                                           |
| Number of contacts                                                                                                                     | 2poles + 2P.E.                                                                                   | 3poles + P.E.                                                                                    | 2poles + 2P.E.                                                                                                 |
| Earth positioning                                                                                                                      | H.6-12                                                                                           | H.6                                                                                              | H.6-12                                                                                                         |
| Housing colour                                                                                                                         | Black                                                                                            | Black                                                                                            | Black                                                                                                          |
| Housing height                                                                                                                         | 22.9mm                                                                                           | 22.9mm                                                                                           | 22.9mm                                                                                                         |
| Gasket type                                                                                                                            | Integrated NBR gasket                                                                            | Integrated NBR gasket                                                                            | Integrated NBR gasket                                                                                          |
| <b>Technical data</b>                                                                                                                  |                                                                                                  |                                                                                                  |                                                                                                                |
| Rated voltage                                                                                                                          | 250V AC/ 300VDC                                                                                  | 250V AC/ 300VDC                                                                                  | 250V AC/ 300VDC                                                                                                |
| Circuit type                                                                                                                           | -                                                                                                | -                                                                                                | -                                                                                                              |
| Led colour                                                                                                                             | -                                                                                                | -                                                                                                | -                                                                                                              |
| Central fixing screw                                                                                                                   | M3 L=25mm                                                                                        | M3 L=25mm                                                                                        | M3 L=25mm                                                                                                      |
| Central fixing screw material                                                                                                          | Iron+Zinc plated                                                                                 | Iron+Zinc plated                                                                                 | Iron+Zinc plated                                                                                               |
| Central screw torque                                                                                                                   | 0.5 N*m                                                                                          | 0.5 N*m                                                                                          | 0.5 N*m                                                                                                        |
| Cable type                                                                                                                             | PVC/PVC IEC332-1 H05VVF                                                                          | PVC/PVC IEC332-1 H05VVF                                                                          | PVC/PVC ULstyle21179                                                                                           |
| Cable jacket colour                                                                                                                    | Black                                                                                            | Black                                                                                            | Black                                                                                                          |
| No. Conductors / Section                                                                                                               | 3G0.75mm <sup>2</sup>                                                                            | 4G0.75mm <sup>2</sup>                                                                            | 3G18AWG                                                                                                        |
| Conductor colours                                                                                                                      | Brown; Blue; Yellow-Green                                                                        | Brown; Blue; Black; Yellow-Green                                                                 | Brown; Blue; Yellow-Green                                                                                      |
| Cable diameter                                                                                                                         | ø6.7mm (±0.3)                                                                                    | ø7mm (±0.3)                                                                                      | ø6.2mm (±0.3)                                                                                                  |
| Cable length                                                                                                                           | 1m                                                                                               | 1m                                                                                               | 1m                                                                                                             |
| <b>Packaging</b>                                                                                                                       |                                                                                                  |                                                                                                  |                                                                                                                |
| Qty/Box                                                                                                                                | Variable according cable length.                                                                 | Variable according cable length.                                                                 | Variable according cable length.                                                                               |
| <b>Other accessories options</b>                                                                                                       |                                                                                                  |                                                                                                  |                                                                                                                |
| See accessories section                                                                                                                |                                                                                                  |                                                                                                  |                                                                                                                |
| <b>Notes:</b><br>Connector available with different features:<br>See the cable codification scheme page<br>See the cables list section |                                                                                                  |                                                                                                  |                                                                                                                |





|                                               |                                                                                                                |                                                                                               |                                                                                               |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
|                                               |                                                                                                                |                                                                                               |                                                                                               |
| <b>Product description</b>                    |                                                                                                                |                                                                                               |                                                                                               |
| Connector type                                | DIN valve connectors                                                                                           | DIN valve connectors                                                                          | DIN valve connectors                                                                          |
| Conforms to                                   | EN175301-803                                                                                                   | EN175301-803                                                                                  | EN175301-803                                                                                  |
| Construction type                             | A                                                                                                              | A                                                                                             | A                                                                                             |
| Part number                                   | <b>CG1N03000A181-UL</b>                                                                                        | <b>CG1N02D03C021</b>                                                                          | <b>CG1N02L01C021 CG1N02L02C021 CG1N02L03C021</b>                                              |
| Description                                   | Square connector CG1 series, UL approved, complete with gasket and fixing screw. Connector without electronic. | Square connector CG1 series complete with gasket and fixing screw. Connector with electronic. | Square connector CG1 series complete with gasket and fixing screw. Connector with electronic. |
| Contacts spacing                              | 18mm                                                                                                           | 18mm                                                                                          | 18mm                                                                                          |
| Number of contacts                            | 3poles + P.E.                                                                                                  | 2poles + 2P.E.                                                                                | 2poles + 2P.E.                                                                                |
| Earth positioning                             | H.6                                                                                                            | H.6-12                                                                                        | H.6-12                                                                                        |
| Housing colour                                | Black                                                                                                          | Black                                                                                         | Black                                                                                         |
| Housing height                                | 22.9mm                                                                                                         | 22.9mm                                                                                        | 22.9mm                                                                                        |
| Gasket type                                   | Integrated NBR gasket                                                                                          | Integrated NBR gasket                                                                         | Integrated NBR gasket                                                                         |
| <b>Technical data</b>                         |                                                                                                                |                                                                                               |                                                                                               |
| Rated voltage                                 | 250V AC/ 300VDC                                                                                                | 1-230V DC                                                                                     | 24V AC/ DC   115V AC/DC   230V AC/DC                                                          |
| Circuit type                                  | -                                                                                                              | Diode(1A)                                                                                     | Bipolar Led                                                                                   |
| Led colour                                    | -                                                                                                              | -                                                                                             | Red                                                                                           |
| Central fixing screw                          | M3 L=25mm                                                                                                      | M3 L=25mm                                                                                     | M3 L=25mm                                                                                     |
| Central fixing screw material                 | Iron + Zinc plated                                                                                             | Iron + Zinc plated                                                                            | Iron + Zinc plated                                                                            |
| Central screw torque                          | 0.5 N*m                                                                                                        | 0.5 N*m                                                                                       | 0.5 N*m                                                                                       |
| Cable type                                    | PVC/PVC ULstyle21179                                                                                           | PVC/PVC IEC332-1 H05VVF                                                                       | PVC/PVC IEC332-1 H05VVF                                                                       |
| Cable jacket colour                           | Black                                                                                                          | Black                                                                                         | Black                                                                                         |
| No.Conductors / Section                       | 4G18AWG                                                                                                        | 3G0.75mm²                                                                                     | 3G0.75mm²                                                                                     |
| Conductor colours                             | Brown; Blue; Black; Yellow-Green                                                                               | Brown; Blue; Yellow-Green                                                                     | Brown; Blue; Yellow-Green                                                                     |
| Cable diameter                                | ø6.5mm (±0.3)                                                                                                  | ø6.7mm (±0.3)                                                                                 | ø6.7mm (±0.3)                                                                                 |
| Cable length                                  | 1m                                                                                                             | 1m                                                                                            | 1m                                                                                            |
| <b>Packaging</b>                              |                                                                                                                |                                                                                               |                                                                                               |
| Qty/Box                                       | Variable according cable length.                                                                               | Variable according cable length.                                                              |                                                                                               |
| <b>Other accessories options</b>              |                                                                                                                |                                                                                               |                                                                                               |
| See accessories section                       |                                                                                                                |                                                                                               |                                                                                               |
| <b>Notes:</b>                                 |                                                                                                                |                                                                                               |                                                                                               |
| Connector available with different feautures: |                                                                                                                |                                                                                               |                                                                                               |
| See the cable codification scheme page        |                                                                                                                |                                                                                               |                                                                                               |
| See the cables list section                   |                                                                                                                |                                                                                               |                                                                                               |



#### Product description

|                                                                                               |                                                                                               |                                                                                               |                                                                                               |
|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| DIN valve connectors                                                                          | DIN valve connectors                                                                          | DIN valve connectors                                                                          | DIN valve connectors                                                                          |
| EN175301-803                                                                                  | EN175301-803                                                                                  | EN175301-803                                                                                  | EN175301-803                                                                                  |
| A                                                                                             | A                                                                                             | A                                                                                             | A                                                                                             |
| <b>CG1N02DL1C021 CG1N02DL2C021 CG1N02DL3C021</b>                                              | <b>CG1N02VL1C021 CG1N02VL2C021 CG1N02VL3C021</b>                                              | <b>CG1N02R03C021</b>                                                                          | <b>CG1N02RV1C021 CG1N02RV2C021 CG1N02RV3C021</b>                                              |
| Square connector CG1 series complete with gasket and fixing screw. Connector with electronic. | Square connector CG1 series complete with gasket and fixing screw. Connector with electronic. | Square connector CG1 series complete with gasket and fixing screw. Connector with electronic. | Square connector CG1 series complete with gasket and fixing screw. Connector with electronic. |
| 18mm                                                                                          | 18mm                                                                                          | 18mm                                                                                          | 18mm                                                                                          |
| 2poles + 2P.E.                                                                                | 2poles + 2P.E.                                                                                | 2poles + 2P.E.                                                                                | 2poles + 2P.E.                                                                                |
| H.6-12                                                                                        | H.6-12                                                                                        | H.6-12                                                                                        | H.6-12                                                                                        |
| Black                                                                                         | Black                                                                                         | Black                                                                                         | Black                                                                                         |
| 22.9mm                                                                                        | 22.9mm                                                                                        | 22.9mm                                                                                        | 22.9mm                                                                                        |
| Integrated NBR gasket                                                                         | Integrated NBR gasket                                                                         | Integrated NBR gasket                                                                         | Integrated NBR gasket                                                                         |

#### Technical data

| 24V DC                    | 115V DC | 230V DC | 24V AC/ DC                | 115V AC/DC | 230V AC/DC | 1-230V AC                  | 24V AC                                | 115V AC | 230V AC |
|---------------------------|---------|---------|---------------------------|------------|------------|----------------------------|---------------------------------------|---------|---------|
| Led + Diode(1A)           |         |         | Bipolar Led + Varistor    |            |            | Full-Wave Bridge Rectifier | Full-Wave Bridge Rectifier + Varistor |         |         |
| Red                       |         |         | Red                       |            |            | -                          | -                                     |         |         |
| M3 L=25mm                 |         |         | M3 L=25mm                 |            |            | M3 L=25mm                  | M3 L=25mm                             |         |         |
| Iron+Zinc plated          |         |         | Iron+Zinc plated          |            |            | Iron+Zinc plated           | Iron+Zinc plated                      |         |         |
| 0.5 N*m                   |         |         | 0.5 N*m                   |            |            | 0.5 N*m                    | 0.5 N*m                               |         |         |
| PVC/PVC IEC332-1 H05VVF   |         |         | PVC/PVC IEC332-1 H05VVF   |            |            | PVC/PVC IEC332-1 H05VVF    | PVC/PVC IEC332-1 H05VVF               |         |         |
| Black                     |         |         | Black                     |            |            | Black                      | Black                                 |         |         |
| 3G0.75mm <sup>2</sup>     |         |         | 3G0.75mm <sup>2</sup>     |            |            | 3G0.75mm <sup>2</sup>      | 3G0.75mm <sup>2</sup>                 |         |         |
| Brown; Blue; Yellow-Green |         |         | Brown; Blue; Yellow-Green |            |            | Brown; Blue; Yellow-Green  | Brown; Blue; Yellow-Green             |         |         |
| ø6.7mm (±0.3)             |         |         | ø6.7mm (±0.3)             |            |            | ø6.7mm (±0.3)              | ø6.7mm (±0.3)                         |         |         |
| 1m                        |         |         | 1m                        |            |            | 1m                         | 1m                                    |         |         |

#### Packaging

|                                  |                                  |                                  |                                  |
|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| Variable according cable length. | Variable according cable length. | Variable according cable length. | Variable according cable length. |
|----------------------------------|----------------------------------|----------------------------------|----------------------------------|

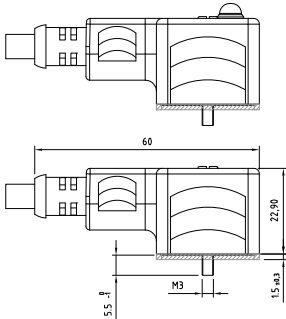
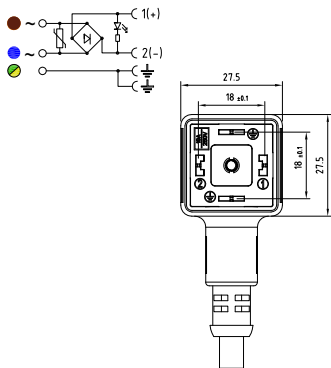
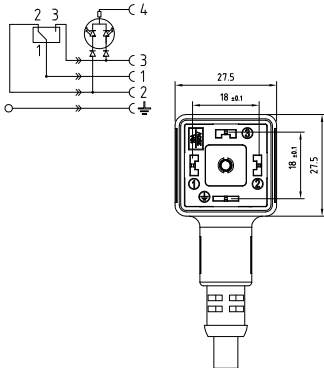
#### Other accessories options

|                         |
|-------------------------|
| See accessories section |
|-------------------------|

#### Notes:

Connector available with different feautres:  
See the cable codification scheme page  
See the cables list section



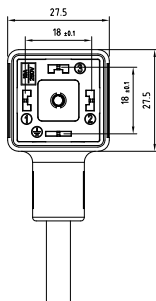
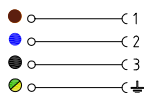
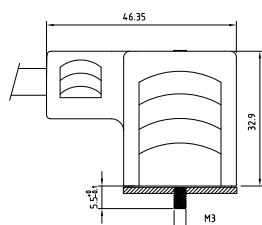
|                                                                                                                                        |                                                                                               |                                                                                                                                     |                                                                                               |
|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
|                                                       |              |                                                   |                                                                                               |
| <b>Product description</b>                                                                                                             |                                                                                               |                                                                                                                                     |                                                                                               |
| Connector type                                                                                                                         | DIN valve connectors                                                                          |                                                                                                                                     | DIN valve connectors                                                                          |
| Conforms to                                                                                                                            | EN175301-803                                                                                  |                                                                                                                                     | EN175301-803                                                                                  |
| Construction type                                                                                                                      | A                                                                                             |                                                                                                                                     | A                                                                                             |
| Part number                                                                                                                            | CG1N02RL1C021 CG1N02RL2C021 CG1N02RL3C021                                                     |                                                                                                                                     | CG1N03Q01AB21 CG1N03Q01AB21 CG1N03Q01AB21                                                     |
| Description                                                                                                                            | Square connector CG1 series complete with gasket and fixing screw. Connector with electronic. |                                                                                                                                     | Square connector CG1 series complete with gasket and fixing screw. Connector with electronic. |
| Contacts spacing                                                                                                                       | 18mm                                                                                          |                                                                                                                                     | 18mm                                                                                          |
| Number of contacts                                                                                                                     | 2poles + 2P.E.                                                                                |                                                                                                                                     | 3poles + P.E.                                                                                 |
| Earth positioning                                                                                                                      | H.6-12                                                                                        |                                                                                                                                     | H.6                                                                                           |
| Housing colour                                                                                                                         | Black                                                                                         |                                                                                                                                     | Black                                                                                         |
| Housing height                                                                                                                         | 22.9mm                                                                                        |                                                                                                                                     | 22.9mm                                                                                        |
| Gasket type                                                                                                                            | Integrated NBR gasket                                                                         |                                                                                                                                     | Integrated NBR gasket                                                                         |
| <b>Technical data</b>                                                                                                                  |                                                                                               |                                                                                                                                     |                                                                                               |
| Rated voltage                                                                                                                          | 24V AC                                                                                        | 115V AC                                                                                                                             | 230V AC                                                                                       |
| Circuit type                                                                                                                           | Full-Wave Bridge Rectifier + Varistor + Led                                                   |                                                                                                                                     | Bicolour Led + no.2 Diodes (1A)                                                               |
| Led colour                                                                                                                             | Red                                                                                           |                                                                                                                                     | Red (pin 2) ; Green (pin3)                                                                    |
| Central fixing screw                                                                                                                   | M3 L=25mm                                                                                     |                                                                                                                                     | M3 L=25mm                                                                                     |
| Central fixing screw material                                                                                                          | Iron + Zinc plated                                                                            |                                                                                                                                     | Iron + Zinc plated                                                                            |
| Central screw torque                                                                                                                   | 0.5 N*m                                                                                       |                                                                                                                                     | 0.5 N*m                                                                                       |
| Cable type                                                                                                                             | PVC/PVC IEC332-1 H05VVF                                                                       |                                                                                                                                     | PVC/PVC IEC332-1 H05VVF                                                                       |
| Cable jacket colour                                                                                                                    | Black                                                                                         |                                                                                                                                     | Black                                                                                         |
| No. Conductors / Section                                                                                                               | 3G0.75mm²                                                                                     |                                                                                                                                     | 4G0.75mm²                                                                                     |
| Conductor colours                                                                                                                      | Brown; Blue; Yellow-Green                                                                     |                                                                                                                                     | Brown; Blue; Black; Yellow-Green                                                              |
| Cable diameter                                                                                                                         | ø6.7mm (±0.3)                                                                                 |                                                                                                                                     | ø7mm (±0.3)                                                                                   |
| Cable length                                                                                                                           | 1m                                                                                            |                                                                                                                                     | 1m                                                                                            |
| <b>Packaging</b>                                                                                                                       |                                                                                               |                                                                                                                                     |                                                                                               |
| Qty/Box                                                                                                                                | Variable according cable length.                                                              |                                                                                                                                     | Variable according cable length.                                                              |
| <b>Other accessories options</b>                                                                                                       |                                                                                               |                                                                                                                                     |                                                                                               |
| See accessories section                                                                                                                |                                                                                               |                                                                                                                                     |                                                                                               |
| <b>Notes:</b><br>Connector available with different feautres:<br>See the cable codification scheme page<br>See the cables list section |                                                                                               | Connector available with different led connection:<br>Q8 circuit (Green pin 2; Red pin 3)<br>Q1 circuit (Yellow pin 2; Green pin 3) |                                                                                               |



|                                                                                                                                        |                                                                                                  |                                                                                                  |                                                                                                                |
|----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| <b>Technical drawing</b>                                                                                                               |                                                                                                  |                                                                                                  |                                                                                                                |
| <b>Product description</b>                                                                                                             |                                                                                                  |                                                                                                  |                                                                                                                |
| Connector type                                                                                                                         | DIN valve connectors                                                                             | DIN valve connectors                                                                             | DIN valve connectors                                                                                           |
| Conforms to                                                                                                                            | EN175301-803                                                                                     | EN175301-803                                                                                     | EN175301-803                                                                                                   |
| Construction type                                                                                                                      | A                                                                                                | A                                                                                                | A                                                                                                              |
| Part number                                                                                                                            | <b>CG5N02000C021</b>                                                                             | <b>CG5N03000AB21</b>                                                                             | <b>CG5N02000C161</b>                                                                                           |
| Description                                                                                                                            | Square connector CG5 series complete with gasket and fixing screw. Connector without electronic. | Square connector CG5 series complete with gasket and fixing screw. Connector without electronic. | Square connector CG5 series, UL approved, complete with gasket and fixing screw. Connector without electronic. |
| Contacts spacing                                                                                                                       | 18mm                                                                                             | 18mm                                                                                             | 18mm                                                                                                           |
| Number of contacts                                                                                                                     | 2poles + 2P.E.                                                                                   | 3poles + 2P.E.                                                                                   | 2poles + 2P.E.                                                                                                 |
| Earth positioning                                                                                                                      | H.6-12                                                                                           | H.6                                                                                              | H.6-12                                                                                                         |
| Housing colour                                                                                                                         | Black                                                                                            | Black                                                                                            | Black                                                                                                          |
| Housing height                                                                                                                         | 32.9mm                                                                                           | 32.9mm                                                                                           | 32.9mm                                                                                                         |
| Gasket type                                                                                                                            | Integrated NBR gasket                                                                            | Integrated NBR gasket                                                                            | Integrated NBR gasket                                                                                          |
| <b>Technical data</b>                                                                                                                  |                                                                                                  |                                                                                                  |                                                                                                                |
| Rated voltage                                                                                                                          | 250V AC/ 300VDC                                                                                  | 250V AC/ 300VDC                                                                                  | 250V AC/ 300VDC                                                                                                |
| Circuit type                                                                                                                           | -                                                                                                | -                                                                                                | -                                                                                                              |
| Led colour                                                                                                                             | -                                                                                                | -                                                                                                | -                                                                                                              |
| Central fixing screw                                                                                                                   | M3 L=35mm                                                                                        | M3 L=35mm                                                                                        | M3 L=35mm                                                                                                      |
| Central fixing screw material                                                                                                          | Iron+Zinc plated                                                                                 | Iron+Zinc plated                                                                                 | Iron+Zinc plated                                                                                               |
| Central screw torque                                                                                                                   | 0.5 N*m                                                                                          | 0.5 N*m                                                                                          | 0.5 N*m                                                                                                        |
| Cable type                                                                                                                             | PVC/PVC IEC332-1 H05VVF                                                                          | PVC/PVC IEC332-1 H05VVF                                                                          | PVC/PVC ULstyle21179                                                                                           |
| Cable jacket colour                                                                                                                    | Black                                                                                            | Black                                                                                            | Black                                                                                                          |
| No. Conductors / Section                                                                                                               | 3G0.75mm <sup>2</sup>                                                                            | 4G0.75mm <sup>2</sup>                                                                            | 3G16AWG                                                                                                        |
| Conductor colours                                                                                                                      | Brown; Blue; Yellow-Green                                                                        | Brown; Blue; Black; Yellow-Green                                                                 | Brown; Blue; Yellow-Green                                                                                      |
| Cable diameter                                                                                                                         | ø6.7mm (±0.3)                                                                                    | ø7mm (±0.3)                                                                                      | ø6.2mm (±0.3)                                                                                                  |
| Cable length                                                                                                                           | 1m                                                                                               | 1m                                                                                               | 1m                                                                                                             |
| <b>Packaging</b>                                                                                                                       |                                                                                                  |                                                                                                  |                                                                                                                |
| Qty/Box                                                                                                                                | Variable according cable length.                                                                 | Variable according cable length.                                                                 | Variable according cable length.                                                                               |
| <b>Other accessories options</b>                                                                                                       |                                                                                                  |                                                                                                  |                                                                                                                |
| See accessories section                                                                                                                |                                                                                                  |                                                                                                  |                                                                                                                |
| <b>Notes:</b><br>Connector available with different features:<br>See the cable codification scheme page<br>See the cables list section |                                                                                                  |                                                                                                  |                                                                                                                |



#### Technical drawing



#### Product description

|                    |                                                                                                                |
|--------------------|----------------------------------------------------------------------------------------------------------------|
| Connector type     | DIN valve connectors                                                                                           |
| Conforms to        | EN175301-803                                                                                                   |
| Construction type  | A                                                                                                              |
| Part number        | <b>CG5N03000A181-UL</b>                                                                                        |
| Description        | Square connector CG5 series, UL approved, complete with gasket and fixing screw. Connector without electronic. |
| Contacts spacing   | 18mm                                                                                                           |
| Number of contacts | 3poles + P.E.                                                                                                  |
| Earth positioning  | H.6                                                                                                            |
| Housing colour     | Black                                                                                                          |
| Housing height     | 32.9mm                                                                                                         |
| Gasket type        | Integrated NBR gasket                                                                                          |

#### Technical data

|                               |                                  |
|-------------------------------|----------------------------------|
| Rated voltage                 | 250V AC/ 300VDC                  |
| Circuit type                  | -                                |
| Led colour                    | -                                |
| Central fixing screw          | M3 L=35mm                        |
| Central fixing screw material | Iron + Zinc plated               |
| Central screw torque          | 0.5 N*m                          |
| Cable type                    | PVC/PVC ULstyle21179             |
| Cable jacket colour           | Black                            |
| No. Conductors / Section      | 4G16AWG                          |
| Conductor colours             | Brown; Blue; Black; Yellow-Green |
| Cable diameter                | ø6.5mm (±0.3)                    |
| Cable length                  | 1m                               |

#### Packaging

|         |                                  |
|---------|----------------------------------|
| Qty/Box | Variable according cable length. |
|---------|----------------------------------|

#### Other accessories options

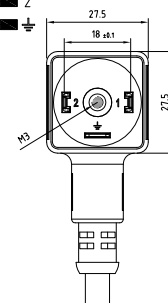
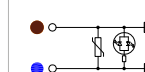
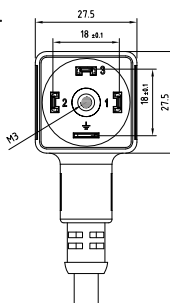
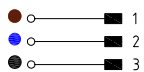
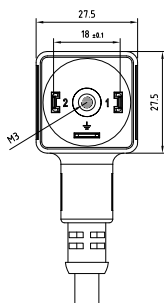
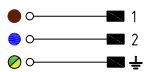
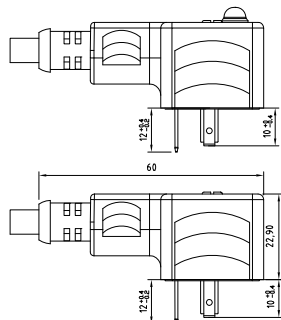
See accessories section

#### Notes:

Connector available with different features:  
See the cable codification scheme page  
See the cables list section



#### Technical drawing



#### Product description

|                    |                                                                                   |                                                                                   |                                                                                |
|--------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| Connector type     | DIN valve connectors                                                              | DIN valve connectors                                                              | DIN valve connectors                                                           |
| Conforms to        | EN175301-803                                                                      | EN175301-803                                                                      | EN175301-803                                                                   |
| Construction type  | A                                                                                 | A                                                                                 | A                                                                              |
| Part number        | <b>CBG1N02000A021</b>                                                             | <b>CBG1N03000AB21</b>                                                             | <b>CBG1N02VL1C021</b>   <b>CBG1N02VL2C021</b>   <b>CBG1N02VL3C021</b>          |
| Description        | Square connector CBG1 series with male contacts.<br>Connector without electronic. | Square connector CBG1 series with male contacts.<br>Connector without electronic. | Square connector CBG1 series with male contacts.<br>Connector with electronic. |
| Contacts spacing   | 18mm                                                                              | 18mm                                                                              | 18mm                                                                           |
| Number of contacts | 2poles + P.E.                                                                     | 3poles + P.E.                                                                     | 2poles + P.E.                                                                  |
| Earth positioning  | H.6                                                                               | H.6                                                                               | H.6                                                                            |
| Housing colour     | Black                                                                             | Black                                                                             | Black                                                                          |
| Housing height     | 22.9mm                                                                            | 22.9mm                                                                            | 22.9mm                                                                         |
| Gasket type        | -                                                                                 | -                                                                                 | -                                                                              |

#### Technical data

|                               |                           |                                  |                                      |
|-------------------------------|---------------------------|----------------------------------|--------------------------------------|
| Rated voltage                 | 250V AC/ 300VDC           | 250V AC/ 300VDC                  | 24V AC/ DC   115V AC/DC   230V AC/DC |
| Circuit type                  | -                         | -                                | Bipolar Led + Varistor               |
| Led colour                    | -                         | -                                | Red                                  |
| Central fixing nut            | M3x0.5 Closed             | M3x0.5 Closed                    | M3x0.5 Closed                        |
| Central fixing screw material | Iron+Zinc plated          | Iron+Zinc plated                 | Iron+Zinc plated                     |
| Central screw torque          | 0.5 N*m                   | 0.5 N*m                          | 0.5 N*m                              |
| Cable type                    | PVC/PVC IEC332-1 H05VVF   | PVC/PVC IEC332-1 H05VVF          | PVC/PVC IEC332-1 H05VVF              |
| Cable jacket colour           | Black                     | Black                            | Black                                |
| No.Conductors / Section       | 3G0.75mm <sup>2</sup>     | 4G0.75mm <sup>2</sup>            | 3G0.75mm <sup>2</sup>                |
| Conductor colours             | Brown; Blue; Yellow-Green | Brown; Blue; Black; Yellow-Green | Brown; Blue; Yellow-Green            |
| Cable diameter                | ø6.7mm (±0.3)             | ø7mm (±0.3)                      | ø6.7mm (±0.3)                        |
| Cable length                  | 1m                        | 1m                               | 1m                                   |

#### Packaging

|         |                                  |                                  |                                  |
|---------|----------------------------------|----------------------------------|----------------------------------|
| Qty/Box | Variable according cable length. | Variable according cable length. | Variable according cable length. |
|---------|----------------------------------|----------------------------------|----------------------------------|

#### Other accessories options

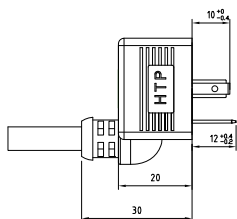
See accessories section

#### Notes:

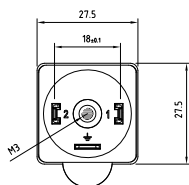
Connector available with different features:  
See the cable codification scheme page  
See the cables list section



# Technical drawing



- 1
- 2
- ⊥



# Product description

|                    |                                                                                               |
|--------------------|-----------------------------------------------------------------------------------------------|
| Connector type     | DIN valve connectors                                                                          |
| Conforms to        | EN175301-803                                                                                  |
| Construction type  | A                                                                                             |
| Part number        | <b>CBGBN02000A021</b>                                                                         |
| Description        | Square connector CBGB1 (TOP EXIT) series with male contacts.<br>Connector without electronic. |
| Contacts spacing   | 18mm                                                                                          |
| Number of contacts | 2poles + P.E.                                                                                 |
| Earth positioning  | H.6                                                                                           |
| Housing colour     | Black                                                                                         |
| Housing height     | 20mm                                                                                          |
| Gasket type        | -                                                                                             |

# Technical data

|                               |                           |
|-------------------------------|---------------------------|
| Rated voltage                 | 250V AC/ 300VDC           |
| Circuit type                  | -                         |
| Led colour                    | -                         |
| Central fixing nut            | M3x0.5                    |
| Central fixing screw material | Iron + Zinc plated        |
| Central screw torque          | 0.5 N*m                   |
| Cable type                    | PVC/PVC IEC332-1 H05VVF   |
| Cable jacket colour           | Black                     |
| No. Conductors / Section      | 3G0.75mm <sup>2</sup>     |
| Conductor colours             | Brown; Blue; Yellow-Green |
| Cable diameter                | ø6.7mm (±0.3)             |
| Cable length                  | 1m                        |

# Packaging

|         |                                  |
|---------|----------------------------------|
| Qty/Box | Variable according cable length. |
|---------|----------------------------------|

# Other accessories options

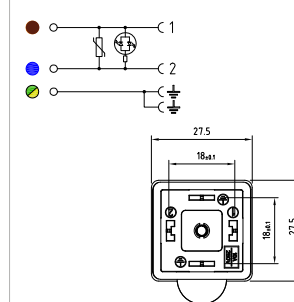
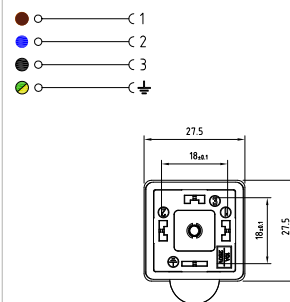
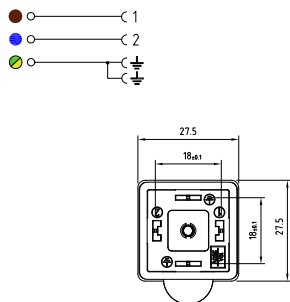
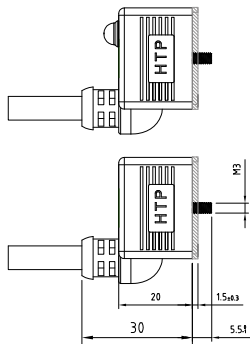
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|-------------------------|--|
| See accessories section |  |
|-------------------------|--|

# Notes:

Connector available with different feautres:  
See the cable codification scheme page  
See the cables list section



#### Technical drawing

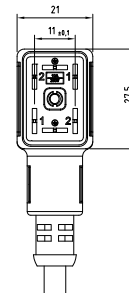
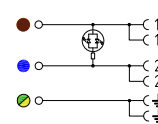
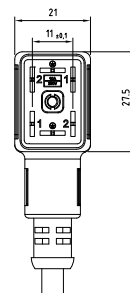
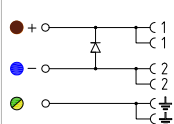
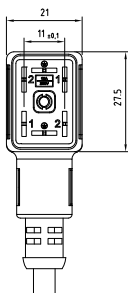
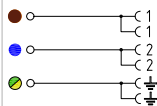
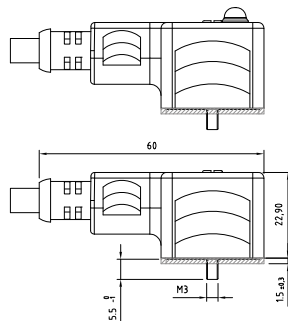


| Product description                                                                                                   |                                                                                                                           |                                                                                                                           |                                                                                                                        |                      |                      |
|-----------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|----------------------|----------------------|
| Connector type                                                                                                        | DIN valve connectors                                                                                                      | DIN valve connectors                                                                                                      | DIN valve connectors                                                                                                   |                      |                      |
| Conforms to                                                                                                           | EN175301-803                                                                                                              | EN175301-803                                                                                                              | EN175301-803                                                                                                           |                      |                      |
| Construction type                                                                                                     | A                                                                                                                         | A                                                                                                                         | A                                                                                                                      |                      |                      |
| Part number                                                                                                           | <b>CGBN02000C021</b>                                                                                                      | <b>CGBN03000AB21</b>                                                                                                      | <b>CGBN02VL1C021</b>                                                                                                   | <b>CGBN02VL2C021</b> | <b>CGBN02VL3C021</b> |
| Description                                                                                                           | Square connector CGB series (TOP exit DIN connector) complete with gasket and fixing screw. Connector without electronic. | Square connector CGB series (TOP exit DIN connector) complete with gasket and fixing screw. Connector without electronic. | Square connector CGB series (TOP exit DIN connector) complete with gasket and fixing screw. Connector with electronic. |                      |                      |
| Contacts spacing                                                                                                      | 18mm                                                                                                                      | 18mm                                                                                                                      | 18mm                                                                                                                   |                      |                      |
| Number of contacts                                                                                                    | 2poles + 2P.E.                                                                                                            | 3poles + P.E.                                                                                                             | 2poles + 2P.E.                                                                                                         |                      |                      |
| Earth positioning                                                                                                     | H.6-12                                                                                                                    | H.6                                                                                                                       | H.6-12                                                                                                                 |                      |                      |
| Housing colour                                                                                                        | Black                                                                                                                     | Black                                                                                                                     | Black                                                                                                                  |                      |                      |
| Housing height                                                                                                        | 20mm                                                                                                                      | 20mm                                                                                                                      | 20mm                                                                                                                   |                      |                      |
| Gasket type                                                                                                           | Integrated NBR gasket                                                                                                     | Integrated NBR gasket                                                                                                     | Integrated NBR gasket                                                                                                  |                      |                      |
| Technical data                                                                                                        |                                                                                                                           |                                                                                                                           |                                                                                                                        |                      |                      |
| Rated voltage                                                                                                         | 250V AC/ 300VDC                                                                                                           | 250V AC/ 300VDC                                                                                                           | 24V AC/ DC                                                                                                             | 115V AC/DC           | 230V AC/DC           |
| Circuit type                                                                                                          | -                                                                                                                         | -                                                                                                                         | Bipolar Led + Varistor                                                                                                 |                      |                      |
| Led colour                                                                                                            | -                                                                                                                         | -                                                                                                                         | Red                                                                                                                    |                      |                      |
| Central fixing screw                                                                                                  | M3 L=22.5mm                                                                                                               | M3 L=22.5mm                                                                                                               | M3 L=22.5mm                                                                                                            |                      |                      |
| Central fixing screw material                                                                                         | Iron+Zinc plated                                                                                                          | Iron+Zinc plated                                                                                                          | Iron+Zinc plated                                                                                                       |                      |                      |
| Central screw torque                                                                                                  | 0.5 N*m                                                                                                                   | 0.5 N*m                                                                                                                   | 0.5 N*m                                                                                                                |                      |                      |
| Cable type                                                                                                            | PVC/PVC IEC332-1 H05VVF                                                                                                   | PVC/PVC IEC332-1 H05VVF                                                                                                   | PVC/PVC IEC332-1 H05VVF                                                                                                |                      |                      |
| Cable jacket colour                                                                                                   | Black                                                                                                                     | Black                                                                                                                     | Black                                                                                                                  |                      |                      |
| No.Conductors / Section                                                                                               | 3G0.75mm²                                                                                                                 | 4G0.75mm²                                                                                                                 | 3G0.75mm²                                                                                                              |                      |                      |
| Conductor colours                                                                                                     | Brown; Blue; Yellow-Green                                                                                                 | Brown; Blue; Black; Yellow-Green                                                                                          | Brown; Blue; Yellow-Green                                                                                              |                      |                      |
| Cable diameter                                                                                                        | ø6.7mm (±0.3)                                                                                                             | ø7mm (±0.3)                                                                                                               | ø6.7mm (±0.3)                                                                                                          |                      |                      |
| Cable length                                                                                                          | 1m                                                                                                                        | 1m                                                                                                                        | 1m                                                                                                                     |                      |                      |
| Packaging                                                                                                             |                                                                                                                           |                                                                                                                           |                                                                                                                        |                      |                      |
| Qty/Box                                                                                                               | Variable according cable length.                                                                                          | Variable according cable length.                                                                                          | Variable according cable length.                                                                                       |                      |                      |
| Other accessories options                                                                                             |                                                                                                                           |                                                                                                                           |                                                                                                                        |                      |                      |
| See accessories section                                                                                               |                                                                                                                           |                                                                                                                           |                                                                                                                        |                      |                      |
| Notes:                                                                                                                |                                                                                                                           |                                                                                                                           |                                                                                                                        |                      |                      |
| Connector available with different feautres:<br>See the cable codification scheme page<br>See the cables list section |                                                                                                                           |                                                                                                                           |                                                                                                                        |                      |                      |





#### Technical drawing



#### Product description

|                    |                                                                                                       |                                                                                                    |                                                                                                    |
|--------------------|-------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| Connector type     | DIN valve connectors                                                                                  | DIN valve connectors                                                                               | DIN valve connectors                                                                               |
| Conforms to        | Industrial                                                                                            | Industrial                                                                                         | Industrial                                                                                         |
| Construction type  | B                                                                                                     | B                                                                                                  | B                                                                                                  |
| Part number        | <b>CM1N02000C021</b>                                                                                  | <b>CM1N02D03C021</b>                                                                               | <b>CM1N02L01C021 CM1N02L02C021 CM1N02L03C021</b>                                                   |
| Description        | Rectangular connector CM1 series complete with gasket and fixing screw. Connector without electronic. | Rectangular connector CM1 series complete with gasket and fixing screw. Connector with electronic. | Rectangular connector CM1 series complete with gasket and fixing screw. Connector with electronic. |
| Contacts spacing   | 11mm                                                                                                  | 11mm                                                                                               | 11mm                                                                                               |
| Number of contacts | 2poles + 2P.E.                                                                                        | 2poles + 2P.E.                                                                                     | 2poles + 2P.E.                                                                                     |
| Earth positioning  | H.6-12                                                                                                | H.6-12                                                                                             | H.6-12                                                                                             |
| Housing colour     | Black                                                                                                 | Black                                                                                              | Black                                                                                              |
| Housing height     | 22.9mm                                                                                                | 22.9mm                                                                                             | 22.9mm                                                                                             |
| Gasket type        | Integrated NBR gasket                                                                                 | Integrated NBR gasket                                                                              | Integrated NBR gasket                                                                              |

#### Technical data

|                               |                           |                           |                           |            |            |
|-------------------------------|---------------------------|---------------------------|---------------------------|------------|------------|
| Rated voltage                 | 250V AC/ 300VDC           | 1-230V DC                 | 24V AC/ DC                | 115V AC/DC | 230V AC/DC |
| Circuit type                  | -                         | Diode(1A)                 | Bipolar Led               |            |            |
| Led colour                    | -                         | -                         | Red                       |            |            |
| Central fixing screw          | M3 L=25mm                 | M3 L=25mm                 | M3 L=25mm                 |            |            |
| Central fixing screw material | Iron + Zinc plated        | Iron + Zinc plated        | Iron + Zinc plated        |            |            |
| Central screw torque          | 0.5 N*m                   | 0.5 N*m                   | 0.5 N*m                   |            |            |
| Cable type                    | PVC/PVC IEC332-1 H05VVF   | PVC/PVC IEC332-1 H05VVF   | PVC/PVC IEC332-1 H05VVF   |            |            |
| Cable jacket colour           | Black                     | Black                     | Black                     |            |            |
| No. Conductors / Section      | 3G0.75mm²                 | 3G0.75mm²                 | 3G0.75mm²                 |            |            |
| Conductor colours             | Brown; Blue; Yellow-Green | Brown; Blue; Yellow-Green | Brown; Blue; Yellow-Green |            |            |
| Cable diameter                | ø6.7mm (±0.3)             | ø6.7mm (±0.3)             | ø6.7mm (±0.3)             |            |            |
| Cable length                  | 1m                        | 1m                        | 1m                        |            |            |

#### Packaging

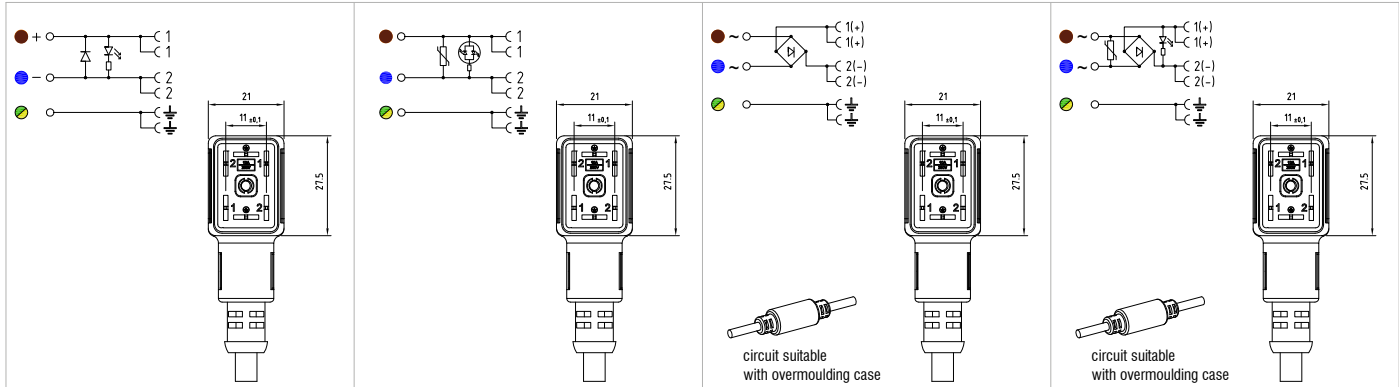
|         |                                  |                                  |                                  |
|---------|----------------------------------|----------------------------------|----------------------------------|
| Qty/Box | Variable according cable length. | Variable according cable length. | Variable according cable length. |
|---------|----------------------------------|----------------------------------|----------------------------------|

#### Other accessories options

See accessories section

#### Notes:

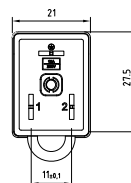
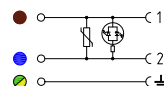
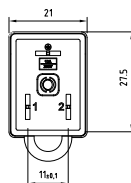
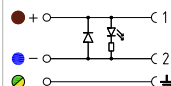
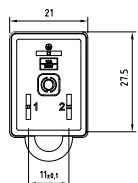
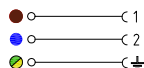
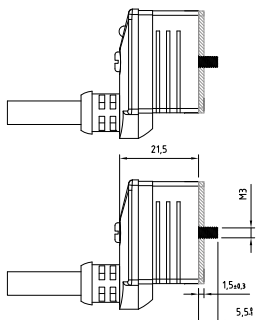
Connector available with different features:  
See the cable codification scheme page  
See the cables list section



| Product description                                                                                |         |         |  | Product description                                                                                |            |            |  | Product description                                                                                |        |         |         | Product description                                                                                |  |  |  |
|----------------------------------------------------------------------------------------------------|---------|---------|--|----------------------------------------------------------------------------------------------------|------------|------------|--|----------------------------------------------------------------------------------------------------|--------|---------|---------|----------------------------------------------------------------------------------------------------|--|--|--|
| DIN valve connectors                                                                               |         |         |  | DIN valve connectors                                                                               |            |            |  | DIN valve connectors                                                                               |        |         |         | DIN valve connectors                                                                               |  |  |  |
| Industrial                                                                                         |         |         |  | Industrial                                                                                         |            |            |  | Industrial                                                                                         |        |         |         | Industrial                                                                                         |  |  |  |
| B                                                                                                  |         |         |  | B                                                                                                  |            |            |  | B                                                                                                  |        |         |         | B                                                                                                  |  |  |  |
| CM1N02DL1C021 CM1N02DL2C021 CM1N02DL3C021                                                          |         |         |  | CM1N02VL1C021 CM1N02VL2C021 CM1N02VL3C021                                                          |            |            |  | CM1N02R03C021                                                                                      |        |         |         | CM1N02RL1C021 CM1N02RL2C021 CM1N02RL3C021                                                          |  |  |  |
| Rectangular connector CM1 series complete with gasket and fixing screw. Connector with electronic. |         |         |  | Rectangular connector CM1 series complete with gasket and fixing screw. Connector with electronic. |            |            |  | Rectangular connector CM1 series complete with gasket and fixing screw. Connector with electronic. |        |         |         | Rectangular connector CM1 series complete with gasket and fixing screw. Connector with electronic. |  |  |  |
| 11mm                                                                                               |         |         |  | 11mm                                                                                               |            |            |  | 11mm                                                                                               |        |         |         | 11mm                                                                                               |  |  |  |
| 2poles + 2P.E.                                                                                     |         |         |  | 2poles + 2P.E.                                                                                     |            |            |  | 2poles + 2P.E.                                                                                     |        |         |         | 2poles + 2P.E.                                                                                     |  |  |  |
| H.6-12                                                                                             |         |         |  | H.6-12                                                                                             |            |            |  | H.6-12                                                                                             |        |         |         | H.6-12                                                                                             |  |  |  |
| Black                                                                                              |         |         |  | Black                                                                                              |            |            |  | Black                                                                                              |        |         |         | Black                                                                                              |  |  |  |
| 22.9mm                                                                                             |         |         |  | 22.9mm                                                                                             |            |            |  | 22.9mm                                                                                             |        |         |         | 22.9mm                                                                                             |  |  |  |
| Integrated NBR gasket                                                                              |         |         |  | Integrated NBR gasket                                                                              |            |            |  | Integrated NBR gasket                                                                              |        |         |         | Integrated NBR gasket                                                                              |  |  |  |
| Technical data                                                                                     |         |         |  | Technical data                                                                                     |            |            |  | Technical data                                                                                     |        |         |         | Technical data                                                                                     |  |  |  |
| 24V DC                                                                                             | 115V DC | 230V DC |  | 24V AC/ DC                                                                                         | 115V AC/DC | 230V AC/DC |  | 1-230V AC                                                                                          | 24V AC | 115V AC | 230V AC |                                                                                                    |  |  |  |
| Led + Diode(1A)                                                                                    |         |         |  | Bipolar Led + Varistor                                                                             |            |            |  | Full-Wave Bridge Rectifier                                                                         |        |         |         | Full-Wave Bridge Rectifier + Varistor + Led                                                        |  |  |  |
| Red                                                                                                |         |         |  | Red                                                                                                |            |            |  | -                                                                                                  |        |         |         | Red                                                                                                |  |  |  |
| M3 L=25mm                                                                                          |         |         |  | M3 L=25mm                                                                                          |            |            |  | M3 L=25mm                                                                                          |        |         |         | M3 L=25mm                                                                                          |  |  |  |
| Iron+Zinc plated                                                                                   |         |         |  | Iron+Zinc plated                                                                                   |            |            |  | Iron+Zinc plated                                                                                   |        |         |         | Iron+Zinc plated                                                                                   |  |  |  |
| 0.5 N*m                                                                                            |         |         |  | 0.5 N*m                                                                                            |            |            |  | 0.5 N*m                                                                                            |        |         |         | 0.5 N*m                                                                                            |  |  |  |
| PVC/PVC IEC332-1 H05VVF                                                                            |         |         |  | PVC/PVC IEC332-1 H05VVF                                                                            |            |            |  | PVC/PVC IEC332-1 H05VVF                                                                            |        |         |         | PVC/PVC IEC332-1 H05VVF                                                                            |  |  |  |
| Black                                                                                              |         |         |  | Black                                                                                              |            |            |  | Black                                                                                              |        |         |         | Black                                                                                              |  |  |  |
| 3G0.75mm <sup>2</sup>                                                                              |         |         |  | 3G0.75mm <sup>2</sup>                                                                              |            |            |  | 3G0.75mm <sup>2</sup>                                                                              |        |         |         | 3G0.75mm <sup>2</sup>                                                                              |  |  |  |
| Brown; Blue; Yellow-Green                                                                          |         |         |  | Brown; Blue; Yellow-Green                                                                          |            |            |  | Brown; Blue; Yellow-Green                                                                          |        |         |         | Brown; Blue; Yellow-Green                                                                          |  |  |  |
| ø6.7mm (±0.3)                                                                                      |         |         |  | ø6.7mm (±0.3)                                                                                      |            |            |  | ø6.7mm (±0.3)                                                                                      |        |         |         | ø6.7mm (±0.3)                                                                                      |  |  |  |
| 1m                                                                                                 |         |         |  | 1m                                                                                                 |            |            |  | 1m                                                                                                 |        |         |         | 1m                                                                                                 |  |  |  |
| Packaging                                                                                          |         |         |  | Packaging                                                                                          |            |            |  | Packaging                                                                                          |        |         |         | Packaging                                                                                          |  |  |  |
| Qty/Box                                                                                            |         |         |  | Variable according cable length.                                                                   |            |            |  | Variable according cable length.                                                                   |        |         |         | Variable according cable length.                                                                   |  |  |  |
| Other accessories options                                                                          |         |         |  | Other accessories options                                                                          |            |            |  | Other accessories options                                                                          |        |         |         | Other accessories options                                                                          |  |  |  |
| See accessories section                                                                            |         |         |  | See accessories section                                                                            |            |            |  | See accessories section                                                                            |        |         |         | See accessories section                                                                            |  |  |  |
| Notes:                                                                                             |         |         |  | Notes:                                                                                             |            |            |  | Notes:                                                                                             |        |         |         | Notes:                                                                                             |  |  |  |
| Connector available with different feautures:                                                      |         |         |  | Connector available with different feautures:                                                      |            |            |  | Connector available with different feautures:                                                      |        |         |         | Connector available with different feautures:                                                      |  |  |  |
| See the cable codification scheme page                                                             |         |         |  | See the cable codification scheme page                                                             |            |            |  | See the cable codification scheme page                                                             |        |         |         | See the cable codification scheme page                                                             |  |  |  |
| See the cables list section                                                                        |         |         |  | See the cables list section                                                                        |            |            |  | See the cables list section                                                                        |        |         |         | See the cables list section                                                                        |  |  |  |



#### Technical drawing



#### Product description

|                    |                                                                                                                                 |                                                                                                                              |                                                                                                                              |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Connector type     | DIN valve connectors                                                                                                            | DIN valve connectors                                                                                                         | DIN valve connectors                                                                                                         |
| Conforms to        | Industrial                                                                                                                      | Industrial                                                                                                                   | Industrial                                                                                                                   |
| Construction type  | B                                                                                                                               | B                                                                                                                            | B                                                                                                                            |
| Part number        | <b>CM1BN02000B021</b>                                                                                                           | <b>CM1BN02DL1B021</b> <b>CM1BN02DL2B021</b> <b>CM1BN02DL3B021</b>                                                            | <b>CM1BN02VL1B021</b> <b>CM1BN02VL2B021</b> <b>CM1BN02VL3B021</b>                                                            |
| Description        | Rectangular connector CM1B series (TOP exit DIN connector) complete with gasket and fixing screw. Connector without electronic. | Rectangular connector CM1B series (TOP exit DIN connector) complete with gasket and fixing screw. Connector with electronic. | Rectangular connector CM1B series (TOP exit DIN connector) complete with gasket and fixing screw. Connector with electronic. |
| Contacts spacing   | 11mm                                                                                                                            | 11mm                                                                                                                         | 11mm                                                                                                                         |
| Number of contacts | 2poles + P.E.                                                                                                                   | 2poles + P.E.                                                                                                                | 2poles + P.E.                                                                                                                |
| Earth positioning  | H.12                                                                                                                            | H.12                                                                                                                         | H.12                                                                                                                         |
| Housing colour     | Black                                                                                                                           | Black                                                                                                                        | Black                                                                                                                        |
| Housing height     | 21.5mm                                                                                                                          | 21.5mm                                                                                                                       | 21.5mm                                                                                                                       |
| Gasket type        | Integrated NBR gasket                                                                                                           | Integrated NBR gasket                                                                                                        | Integrated NBR gasket                                                                                                        |

#### Technical data

|                               |                           |                           |         |         |                           |            |            |
|-------------------------------|---------------------------|---------------------------|---------|---------|---------------------------|------------|------------|
| Rated voltage                 | 250V AC/ 300VDC           | 24V DC                    | 115V DC | 230V DC | 24V AC/ DC                | 115V AC/DC | 230V AC/DC |
| Circuit type                  | -                         | Led + Diode(1A)           |         |         | Bipolar Led + Varistor    |            |            |
| Led colour                    | -                         | Red                       |         |         | Red                       |            |            |
| Central fixing screw          | M3 L=26mm                 | M3 L=26mm                 |         |         | M3 L=26mm                 |            |            |
| Central fixing screw material | Iron+Zinc plated          | Iron+Zinc plated          |         |         | Iron+Zinc plated          |            |            |
| Central screw torque          | 0.5 N*m                   | 0.5 N*m                   |         |         | 0.5 N*m                   |            |            |
| Cable type                    | PVC/PVC IEC332-1 H05VVF   | PVC/PVC IEC332-1 H05VVF   |         |         | PVC/PVC IEC332-1 H05VVF   |            |            |
| Cable jacket colour           | Black                     | Black                     |         |         | Black                     |            |            |
| No.Conductors / Section       | 3G0.75mm <sup>2</sup>     | 3G0.75mm <sup>2</sup>     |         |         | 3G0.75mm <sup>2</sup>     |            |            |
| Conductor colours             | Brown; Blue; Yellow-Green | Brown; Blue; Yellow-Green |         |         | Brown; Blue; Yellow-Green |            |            |
| Cable diameter                | ø6.7mm (±0.3)             | ø6.7mm (±0.3)             |         |         | ø6.7mm (±0.3)             |            |            |
| Cable length                  | 1m                        | 1m                        |         |         | 1m                        |            |            |

#### Packaging

|         |                                  |                                  |                                  |
|---------|----------------------------------|----------------------------------|----------------------------------|
| Qty/Box | Variable according cable length. | Variable according cable length. | Variable according cable length. |
|---------|----------------------------------|----------------------------------|----------------------------------|

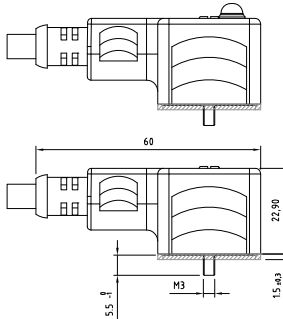
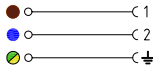
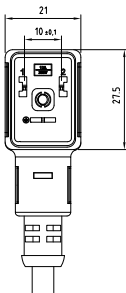
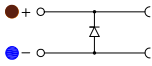
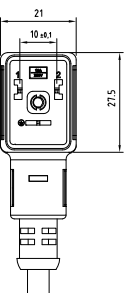
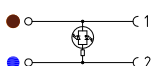
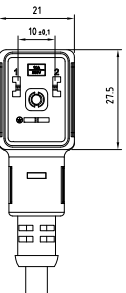
#### Other accessories options

See accessories section

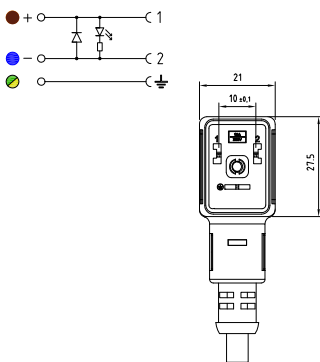
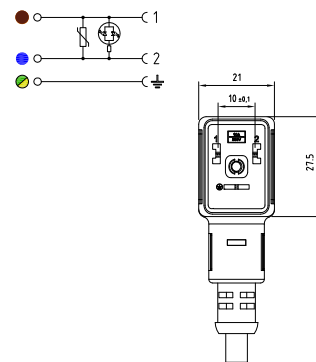
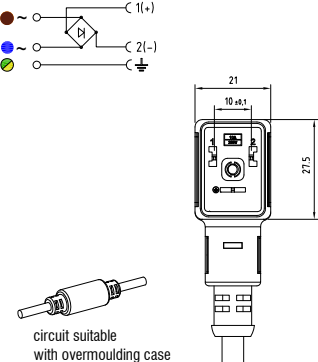
#### Notes:

Connector available with different features:  
See the cable codification scheme page  
See the cables list section



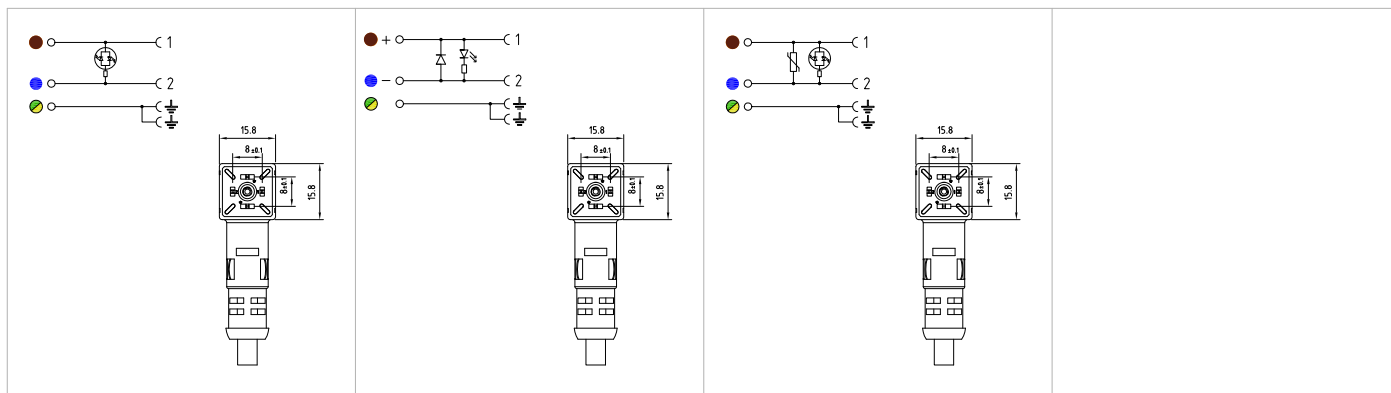
|                                                                                                                                                                         |                                                                                                       |                                                                                                                                                                     |                                                                                                    |                                                                                                                                                                       |                                                                                                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| <b>Technical drawing</b>                                                                                                                                                |                                                                                                       |                                                                                                                                                                     |                                                                                                    |                                                                                                                                                                       |                                                                                                    |
|                                                                                        |                                                                                                       |   |                                                                                                    |   |                                                                                                    |
|   |                                                                                                       |                                                                                                                                                                     |                                                                                                    |                                                                                                                                                                       |                                                                                                    |
| <b>Product description</b>                                                                                                                                              |                                                                                                       |                                                                                                                                                                     |                                                                                                    |                                                                                                                                                                       |                                                                                                    |
| Connector type                                                                                                                                                          | DIN valve connectors                                                                                  |                                                                                                                                                                     | DIN valve connectors                                                                               |                                                                                                                                                                       | DIN valve connectors                                                                               |
| Conforms to                                                                                                                                                             | EN175301-803                                                                                          |                                                                                                                                                                     | EN175301-803                                                                                       |                                                                                                                                                                       | EN175301-803                                                                                       |
| Construction type                                                                                                                                                       | B                                                                                                     |                                                                                                                                                                     | B                                                                                                  |                                                                                                                                                                       | B                                                                                                  |
| Part number                                                                                                                                                             | <b>CM2N02000A021</b>                                                                                  |                                                                                                                                                                     | <b>CM2N02D03A021</b>                                                                               |                                                                                                                                                                       | <b>CM2N02L01A021</b>   <b>CM2N02L02A021</b>   <b>CM2N02L03A021</b>                                 |
| Description                                                                                                                                                             | Rectangular connector CM2 series complete with gasket and fixing screw. Connector without electronic. |                                                                                                                                                                     | Rectangular connector CM2 series complete with gasket and fixing screw. Connector with electronic. |                                                                                                                                                                       | Rectangular connector CM2 series complete with gasket and fixing screw. Connector with electronic. |
| Contacts spacing                                                                                                                                                        | 10mm                                                                                                  |                                                                                                                                                                     | 10mm                                                                                               |                                                                                                                                                                       | 10mm                                                                                               |
| Number of contacts                                                                                                                                                      | 2poles + P.E.                                                                                         |                                                                                                                                                                     | 2poles + P.E.                                                                                      |                                                                                                                                                                       | 2poles + P.E.                                                                                      |
| Earth positioning                                                                                                                                                       | H.6                                                                                                   |                                                                                                                                                                     | H.6                                                                                                |                                                                                                                                                                       | H.6                                                                                                |
| Housing colour                                                                                                                                                          | Black                                                                                                 |                                                                                                                                                                     | Black                                                                                              |                                                                                                                                                                       | Black                                                                                              |
| Housing height                                                                                                                                                          | 22.9mm                                                                                                |                                                                                                                                                                     | 22.9mm                                                                                             |                                                                                                                                                                       | 22.9mm                                                                                             |
| Gasket type                                                                                                                                                             | Integrated NBR gasket                                                                                 |                                                                                                                                                                     | Integrated NBR gasket                                                                              |                                                                                                                                                                       | Integrated NBR gasket                                                                              |
| <b>Technical data</b>                                                                                                                                                   |                                                                                                       |                                                                                                                                                                     |                                                                                                    |                                                                                                                                                                       |                                                                                                    |
| Rated voltage                                                                                                                                                           | 250V AC/ 300VDC                                                                                       |                                                                                                                                                                     | 1-230V DC                                                                                          |                                                                                                                                                                       | 24V AC/ DC   115V AC/DC   230V AC/DC                                                               |
| Circuit type                                                                                                                                                            | -                                                                                                     |                                                                                                                                                                     | Diode(1A)                                                                                          |                                                                                                                                                                       | Bipolar Led                                                                                        |
| Led colour                                                                                                                                                              | -                                                                                                     |                                                                                                                                                                     | -                                                                                                  |                                                                                                                                                                       | Red                                                                                                |
| Central fixing screw                                                                                                                                                    | M3 L=25mm                                                                                             |                                                                                                                                                                     | M3 L=25mm                                                                                          |                                                                                                                                                                       | M3 L=25mm                                                                                          |
| Central fixing screw material                                                                                                                                           | Iron+Zinc plated                                                                                      |                                                                                                                                                                     | Iron+Zinc plated                                                                                   |                                                                                                                                                                       | Iron+Zinc plated                                                                                   |
| Central screw torque                                                                                                                                                    | 0.5 N*m                                                                                               |                                                                                                                                                                     | 0.5 N*m                                                                                            |                                                                                                                                                                       | 0.5 N*m                                                                                            |
| Cable type                                                                                                                                                              | PVC/PVC IEC332-1 H05VVF                                                                               |                                                                                                                                                                     | PVC/PVC IEC332-1 H05VVF                                                                            |                                                                                                                                                                       | PVC/PVC IEC332-1 H05VVF                                                                            |
| Cable jacket colour                                                                                                                                                     | Black                                                                                                 |                                                                                                                                                                     | Black                                                                                              |                                                                                                                                                                       | Black                                                                                              |
| No. Conductors / Section                                                                                                                                                | 3G0.75mm²                                                                                             |                                                                                                                                                                     | 3G0.75mm²                                                                                          |                                                                                                                                                                       | 3G0.75mm²                                                                                          |
| Conductor colours                                                                                                                                                       | Brown; Blue; Yellow-Green                                                                             |                                                                                                                                                                     | Brown; Blue; Yellow-Green                                                                          |                                                                                                                                                                       | Brown; Blue; Yellow-Green                                                                          |
| Cable diameter                                                                                                                                                          | ø6.7mm (±0.3)                                                                                         |                                                                                                                                                                     | ø6.7mm (±0.3)                                                                                      |                                                                                                                                                                       | ø6.7mm (±0.3)                                                                                      |
| Cable length                                                                                                                                                            | 1m                                                                                                    |                                                                                                                                                                     | 1m                                                                                                 |                                                                                                                                                                       | 1m                                                                                                 |
| <b>Packaging</b>                                                                                                                                                        |                                                                                                       |                                                                                                                                                                     |                                                                                                    |                                                                                                                                                                       |                                                                                                    |
| Qty/Box                                                                                                                                                                 | Variable according cable length.                                                                      |                                                                                                                                                                     | Variable according cable length.                                                                   |                                                                                                                                                                       | Variable according cable length.                                                                   |
| <b>Other accessories options</b>                                                                                                                                        |                                                                                                       |                                                                                                                                                                     |                                                                                                    |                                                                                                                                                                       |                                                                                                    |
| See accessories section                                                                                                                                                 |                                                                                                       |                                                                                                                                                                     |                                                                                                    |                                                                                                                                                                       |                                                                                                    |
| <b>Notes:</b>                                                                                                                                                           |                                                                                                       |                                                                                                                                                                     |                                                                                                    |                                                                                                                                                                       |                                                                                                    |
| Connector available with different features:<br>See the cable codification scheme page<br>See the cables list section                                                   |                                                                                                       |                                                                                                                                                                     |                                                                                                    |                                                                                                                                                                       |                                                                                                    |



|                                                                                                                       |                                                                                                    |                                                                                                    |
|-----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
|                                      |                   |                  |
| <b>Product description</b>                                                                                            |                                                                                                    |                                                                                                    |
| DIN valve connectors                                                                                                  | DIN valve connectors                                                                               | DIN valve connectors                                                                               |
| EN175301-803                                                                                                          | EN175301-803                                                                                       | EN175301-803                                                                                       |
| B                                                                                                                     | B                                                                                                  | B                                                                                                  |
| CM2N02DL1A021                                                                                                         | CM2N02DL2A021                                                                                      | CM2N02DL3A021                                                                                      |
| CM2N02VL1A021                                                                                                         | CM2N02VL2A021                                                                                      | CM2N02VL3A021                                                                                      |
| <b>CM2N02R03A021</b>                                                                                                  |                                                                                                    |                                                                                                    |
| Rectangular connector CM2 series complete with gasket and fixing screw. Connector with electronic.                    | Rectangular connector CM2 series complete with gasket and fixing screw. Connector with electronic. | Rectangular connector CM2 series complete with gasket and fixing screw. Connector with electronic. |
| 10mm                                                                                                                  | 10mm                                                                                               | 10mm                                                                                               |
| 2poles + P.E.                                                                                                         | 2poles + P.E.                                                                                      | 2poles + P.E.                                                                                      |
| H.6                                                                                                                   | H.6                                                                                                | H.6                                                                                                |
| Black                                                                                                                 | Black                                                                                              | Black                                                                                              |
| 22.9mm                                                                                                                | 22.9mm                                                                                             | 22.9mm                                                                                             |
| Integrated NBR gasket                                                                                                 | Integrated NBR gasket                                                                              | Integrated NBR gasket                                                                              |
| <b>Technical data</b>                                                                                                 |                                                                                                    |                                                                                                    |
| 24V DC                                                                                                                | 115V DC                                                                                            | 230V DC                                                                                            |
| Led + Diode(1A)                                                                                                       | Bipolar Led + Varistor                                                                             | 1-230V AC                                                                                          |
| Red                                                                                                                   | Red                                                                                                | Full-Wave Bridge Rectifier                                                                         |
| M3 L=25mm                                                                                                             | M3 L=25mm                                                                                          | -                                                                                                  |
| Iron+Zinc plated                                                                                                      | Iron+Zinc plated                                                                                   | M3 L=25mm                                                                                          |
| 0.5 N*m                                                                                                               | 0.5 N*m                                                                                            | Iron+Zinc plated                                                                                   |
| PVC/PVC IEC332-1 H05VVF                                                                                               | PVC/PVC IEC332-1 H05VVF                                                                            | 0.5 N*m                                                                                            |
| Black                                                                                                                 | Black                                                                                              | PVC/PVC IEC332-1 H05VVF                                                                            |
| 3G0.75mm²                                                                                                             | 3G0.75mm²                                                                                          | Black                                                                                              |
| Brown; Blue; Yellow-Green                                                                                             | Brown; Blue; Yellow-Green                                                                          | 3G0.75mm²                                                                                          |
| ø6.7mm (±0.3)                                                                                                         | ø6.7mm (±0.3)                                                                                      | Brown; Blue; Yellow-Green                                                                          |
| 1m                                                                                                                    | 1m                                                                                                 | ø6.7mm (±0.3)                                                                                      |
| <b>Packaging</b>                                                                                                      |                                                                                                    |                                                                                                    |
| Qty/Box                                                                                                               | Variable according cable length.                                                                   | 1m                                                                                                 |
| <b>Other accessories options</b>                                                                                      |                                                                                                    |                                                                                                    |
| See accessories section                                                                                               |                                                                                                    |                                                                                                    |
| <b>Notes:</b>                                                                                                         |                                                                                                    |                                                                                                    |
| Connector available with different features:<br>See the cable codification scheme page<br>See the cables list section |                                                                                                    |                                                                                                    |



|                                                                                                                                        |                                                                                                        |                                                                                                        |                                                                                                     |
|----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| <b>Technical drawing</b>                                                                                                               |                                                                                                        |                                                                                                        |                                                                                                     |
|                                                                                                                                        |                                                                                                        |                                                                                                        |                                                                                                     |
| <b>Product description</b>                                                                                                             |                                                                                                        |                                                                                                        |                                                                                                     |
| Connector type                                                                                                                         | DIN valve connectors                                                                                   | DIN valve connectors                                                                                   | DIN valve connectors                                                                                |
| Conforms to                                                                                                                            | EN175301-803                                                                                           | EN175301-803                                                                                           | EN175301-803                                                                                        |
| Construction type                                                                                                                      | C                                                                                                      | C                                                                                                      | C                                                                                                   |
| Part number                                                                                                                            | <b>CP1N02000C011</b>                                                                                   | <b>CP1N03000AB11</b>                                                                                   | <b>CP1N02D03C011</b>                                                                                |
| Description                                                                                                                            | Square micro connector CP1 series complete with gasket and fixing screw. Connector without electronic. | Square micro connector CP1 series complete with gasket and fixing screw. Connector without electronic. | Square micro connector CP1 series complete with gasket and fixing screw. Connector with electronic. |
| Contacts spacing                                                                                                                       | 8mm                                                                                                    | 8mm                                                                                                    | 8mm                                                                                                 |
| Number of contacts                                                                                                                     | 2poles + 2P.E.                                                                                         | 3poles + P.E.                                                                                          | 2poles + 2P.E.                                                                                      |
| Earth positioning                                                                                                                      | H.6-12                                                                                                 | H.6                                                                                                    | H.6-12                                                                                              |
| Housing colour                                                                                                                         | Black                                                                                                  | Black                                                                                                  | Black                                                                                               |
| Housing height                                                                                                                         | 21mm                                                                                                   | 21mm                                                                                                   | 21mm                                                                                                |
| Gasket type                                                                                                                            | Integrated NBR gasket                                                                                  | Integrated NBR gasket                                                                                  | Integrated NBR gasket                                                                               |
| <b>Technical data</b>                                                                                                                  |                                                                                                        |                                                                                                        |                                                                                                     |
| Rated voltage                                                                                                                          | 250V AC/ 300VDC                                                                                        | 250V AC/ 300VDC                                                                                        | 1-230V DC                                                                                           |
| Circuit type                                                                                                                           | -                                                                                                      | -                                                                                                      | -                                                                                                   |
| Led colour                                                                                                                             | -                                                                                                      | -                                                                                                      | -                                                                                                   |
| Central fixing screw                                                                                                                   | M2.5 L=22.5mm                                                                                          | M2.5 L=22.5mm                                                                                          | M2.5 L=22.5mm                                                                                       |
| Central fixing screw material                                                                                                          | Iron+Zinc plated                                                                                       | Iron+Zinc plated                                                                                       | Iron+Zinc plated                                                                                    |
| Central screw torque                                                                                                                   | 0.4 N*m                                                                                                | 0.4 N*m                                                                                                | 0.4 N*m                                                                                             |
| Cable type                                                                                                                             | PVC/PVC IEC332-1 H03VVF                                                                                | PVC/PVC IEC332-1 H03VVF                                                                                | PVC/PVC IEC332-1 H03VVF                                                                             |
| Cable jacket colour                                                                                                                    | Black                                                                                                  | Black                                                                                                  | Black                                                                                               |
| No. Conductors / Section                                                                                                               | 3G0.5mm <sup>2</sup>                                                                                   | 4G0.5mm <sup>2</sup>                                                                                   | 3G0.5mm <sup>2</sup>                                                                                |
| Conductor colours                                                                                                                      | Brown; Blue; Yellow-Green                                                                              | Brown; Blue; Black; Yellow-Green                                                                       | Brown; Blue; Yellow-Green                                                                           |
| Cable diameter                                                                                                                         | ø5mm (±0.3)                                                                                            | ø6mm (±0.3)                                                                                            | ø5mm (±0.3)                                                                                         |
| Cable length                                                                                                                           | 1m                                                                                                     | 1m                                                                                                     | 1m                                                                                                  |
| <b>Packaging</b>                                                                                                                       |                                                                                                        |                                                                                                        |                                                                                                     |
| Qty/Box                                                                                                                                | Variable according cable length.                                                                       | Variable according cable length.                                                                       | Variable according cable length.                                                                    |
| <b>Other accessories options</b>                                                                                                       |                                                                                                        |                                                                                                        |                                                                                                     |
| See accessories section                                                                                                                |                                                                                                        |                                                                                                        |                                                                                                     |
| <b>Notes:</b><br>Connector available with different feautres:<br>See the cable codification scheme page<br>See the cables list section |                                                                                                        |                                                                                                        |                                                                                                     |



|                                                                                                                       |               |               |                                                                                                     |               |               |                                                                                                     |               |               |  |
|-----------------------------------------------------------------------------------------------------------------------|---------------|---------------|-----------------------------------------------------------------------------------------------------|---------------|---------------|-----------------------------------------------------------------------------------------------------|---------------|---------------|--|
| Product description                                                                                                   |               |               |                                                                                                     |               |               |                                                                                                     |               |               |  |
| DIN valve connectors                                                                                                  |               |               | DIN valve connectors                                                                                |               |               | DIN valve connectors                                                                                |               |               |  |
| EN175301-803                                                                                                          |               |               | EN175301-803                                                                                        |               |               | EN175301-803                                                                                        |               |               |  |
| C                                                                                                                     |               |               | C                                                                                                   |               |               | C                                                                                                   |               |               |  |
| CP1N02L01C011                                                                                                         | CP1N02L02C011 | CP1N02L03C011 | CP1N02DL1C011                                                                                       | CP1N02DL2C011 | CP1N02DL3C011 | CP1N02VL1C011                                                                                       | CP1N02VL2C011 | CP1N02VL3C011 |  |
| Square micro connector CP1 series complete with gasket and fixing screw. Connector with electronic.                   |               |               | Square micro connector CP1 series complete with gasket and fixing screw. Connector with electronic. |               |               | Square micro connector CP1 series complete with gasket and fixing screw. Connector with electronic. |               |               |  |
| 8mm                                                                                                                   |               |               | 8mm                                                                                                 |               |               | 8mm                                                                                                 |               |               |  |
| 2poles + 2P.E.                                                                                                        |               |               | 2poles + 2P.E.                                                                                      |               |               | 2poles + 2P.E.                                                                                      |               |               |  |
| H.6-12                                                                                                                |               |               | H.6-12                                                                                              |               |               | H.6-12                                                                                              |               |               |  |
| Black                                                                                                                 |               |               | Black                                                                                               |               |               | Black                                                                                               |               |               |  |
| 21mm                                                                                                                  |               |               | 21mm                                                                                                |               |               | 21mm                                                                                                |               |               |  |
| Integrated NBR gasket                                                                                                 |               |               | Integrated NBR gasket                                                                               |               |               | Integrated NBR gasket                                                                               |               |               |  |
| Technical data                                                                                                        |               |               |                                                                                                     |               |               |                                                                                                     |               |               |  |
| 24V AC/ DC                                                                                                            | 115V AC/DC    | 230V AC/DC    | 24V DC                                                                                              | 115V DC       | 230V DC       | 24V AC/ DC                                                                                          | 115V AC/DC    | 230V AC/DC    |  |
| Bipolar Led                                                                                                           |               |               | Led + Diode(1A)                                                                                     |               |               | Bipolar Led + Varistor                                                                              |               |               |  |
| Red                                                                                                                   |               |               | Red                                                                                                 |               |               | Red                                                                                                 |               |               |  |
| M2.5 L=22.5mm                                                                                                         |               |               | M2.5 L=22.5mm                                                                                       |               |               | M2.5 L=22.5mm                                                                                       |               |               |  |
| Iron+Zinc plated                                                                                                      |               |               | Iron+Zinc plated                                                                                    |               |               | Iron+Zinc plated                                                                                    |               |               |  |
| 0.4 N/m                                                                                                               |               |               | 0.4 N/m                                                                                             |               |               | 0.4 N/m                                                                                             |               |               |  |
| PVC/PVC IEC332-1 H03VVF                                                                                               |               |               | PVC/PVC IEC332-1 H03VVF                                                                             |               |               | PVC/PVC IEC332-1 H03VVF                                                                             |               |               |  |
| Black                                                                                                                 |               |               | Black                                                                                               |               |               | Black                                                                                               |               |               |  |
| 3G0.5mm²                                                                                                              |               |               | 3G0.5mm²                                                                                            |               |               | 3G0.5mm²                                                                                            |               |               |  |
| Brown; Blue; Yellow-Green                                                                                             |               |               | Brown; Blue; Yellow-Green                                                                           |               |               | Brown; Blue; Yellow-Green                                                                           |               |               |  |
| ø5mm (±0.3)                                                                                                           |               |               | ø5mm (±0.3)                                                                                         |               |               | ø5mm (±0.3)                                                                                         |               |               |  |
| 1m                                                                                                                    |               |               | 1m                                                                                                  |               |               | 1m                                                                                                  |               |               |  |
| Packaging                                                                                                             |               |               |                                                                                                     |               |               |                                                                                                     |               |               |  |
| Variable according cable length.                                                                                      |               |               | Variable according cable length.                                                                    |               |               | Variable according cable length.                                                                    |               |               |  |
| Other accessories options                                                                                             |               |               |                                                                                                     |               |               |                                                                                                     |               |               |  |
| See accessories section                                                                                               |               |               |                                                                                                     |               |               |                                                                                                     |               |               |  |
| Notes:                                                                                                                |               |               |                                                                                                     |               |               |                                                                                                     |               |               |  |
| Connector available with different feautres:<br>See the cable codification scheme page<br>See the cables list section |               |               |                                                                                                     |               |               |                                                                                                     |               |               |  |



|                                                                                                                                        |                                                                                                        |                                                                                                        |                                                                                                     |
|----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| <b>Technical drawing</b>                                                                                                               |                                                                                                        |                                                                                                        |                                                                                                     |
|                                                                                                                                        |                                                                                                        |                                                                                                        |                                                                                                     |
|                                                                                                                                        |                                                                                                        |                                                                                                        |                                                                                                     |
|                                                                                                                                        |                                                                                                        |                                                                                                        |                                                                                                     |
|                                                                                                                                        |                                                                                                        |                                                                                                        |                                                                                                     |
| <b>Product description</b>                                                                                                             |                                                                                                        |                                                                                                        |                                                                                                     |
| Connector type                                                                                                                         | DIN valve connectors                                                                                   | DIN valve connectors                                                                                   | DIN valve connectors                                                                                |
| Conforms to                                                                                                                            | Industrial                                                                                             | Industrial                                                                                             | Industrial                                                                                          |
| Construction type                                                                                                                      | C                                                                                                      | C                                                                                                      | C                                                                                                   |
| Part number                                                                                                                            | <b>CP2N02000C011</b>                                                                                   | <b>CP2N03000AB11</b>                                                                                   | <b>CP2N02D03C011</b>                                                                                |
| Description                                                                                                                            | Square micro connector CP2 series complete with gasket and fixing screw. Connector without electronic. | Square micro connector CP2 series complete with gasket and fixing screw. Connector without electronic. | Square micro connector CP2 series complete with gasket and fixing screw. Connector with electronic. |
| Contacts spacing                                                                                                                       | 9.4mm                                                                                                  | 9.4mm                                                                                                  | 9.4mm                                                                                               |
| Number of contacts                                                                                                                     | 2poles + 2P.E.                                                                                         | 3poles + P.E.                                                                                          | 2poles + 2P.E.                                                                                      |
| Earth positioning                                                                                                                      | H.6-12                                                                                                 | H.6                                                                                                    | H.6-12                                                                                              |
| Housing colour                                                                                                                         | Black                                                                                                  | Black                                                                                                  | Black                                                                                               |
| Housing height                                                                                                                         | 21mm                                                                                                   | 21mm                                                                                                   | 21mm                                                                                                |
| Gasket type                                                                                                                            | Integrated NBR gasket                                                                                  | Integrated NBR gasket                                                                                  | Integrated NBR gasket                                                                               |
| <b>Technical data</b>                                                                                                                  |                                                                                                        |                                                                                                        |                                                                                                     |
| Rated voltage                                                                                                                          | 250V AC/ 300VDC                                                                                        | 250V AC/ 300VDC                                                                                        | 1-230V DC                                                                                           |
| Circuit type                                                                                                                           | -                                                                                                      | -                                                                                                      | -                                                                                                   |
| Led colour                                                                                                                             | -                                                                                                      | -                                                                                                      | -                                                                                                   |
| Central fixing screw                                                                                                                   | M3 L=22.5mm                                                                                            | M3 L=22.5mm                                                                                            | M3 L=22.5mm                                                                                         |
| Central fixing screw material                                                                                                          | Iron+Zinc plated                                                                                       | Iron+Zinc plated                                                                                       | Iron+Zinc plated                                                                                    |
| Central screw torque                                                                                                                   | 0.5 N*m                                                                                                | 0.5 N*m                                                                                                | 0.5 N*m                                                                                             |
| Cable type                                                                                                                             | PVC/PVC IEC332-1 H03VVF                                                                                | PVC/PVC IEC332-1 H03VVF                                                                                | PVC/PVC IEC332-1 H03VVF                                                                             |
| Cable jacket colour                                                                                                                    | Black                                                                                                  | Black                                                                                                  | Black                                                                                               |
| No.Conductors / Section                                                                                                                | 3G0.5mm²                                                                                               | 4G0.5mm²                                                                                               | 3G0.5mm²                                                                                            |
| Conductor colours                                                                                                                      | Brown; Blue; Yellow-Green                                                                              | Brown; Blue; Black; Yellow-Green                                                                       | Brown; Blue; Yellow-Green                                                                           |
| Cable diameter                                                                                                                         | ø5mm (±0.3)                                                                                            | ø6mm (±0.3)                                                                                            | ø5mm (±0.3)                                                                                         |
| Cable length                                                                                                                           | 1m                                                                                                     | 1m                                                                                                     | 1m                                                                                                  |
| <b>Packaging</b>                                                                                                                       |                                                                                                        |                                                                                                        |                                                                                                     |
| Qty/Box                                                                                                                                | Variable according cable length.                                                                       | Variable according cable length.                                                                       | Variable according cable length.                                                                    |
| <b>Other accessories options</b>                                                                                                       |                                                                                                        |                                                                                                        |                                                                                                     |
| See accessories section                                                                                                                |                                                                                                        |                                                                                                        |                                                                                                     |
| <b>Notes:</b><br>Connector available with different feautres:<br>See the cable codification scheme page<br>See the cables list section |                                                                                                        |                                                                                                        |                                                                                                     |





|                                                                                                                       |  |  |  |                                                                                                        |  |  |  |                                                                                                        |  |  |  |                                  |  |  |  |                                  |  |  |  |                                  |  |  |  |                                  |  |  |  |                                  |  |  |  |                           |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------|--|--|--|--------------------------------------------------------------------------------------------------------|--|--|--|--------------------------------------------------------------------------------------------------------|--|--|--|----------------------------------|--|--|--|----------------------------------|--|--|--|----------------------------------|--|--|--|----------------------------------|--|--|--|----------------------------------|--|--|--|---------------------------|--|--|--|
|                                                                                                                       |  |  |  |                                                                                                        |  |  |  |                                                                                                        |  |  |  |                                  |  |  |  |                                  |  |  |  |                                  |  |  |  |                                  |  |  |  |                                  |  |  |  |                           |  |  |  |
| <b>Product description</b>                                                                                            |  |  |  |                                                                                                        |  |  |  |                                                                                                        |  |  |  |                                  |  |  |  |                                  |  |  |  |                                  |  |  |  |                                  |  |  |  |                                  |  |  |  |                           |  |  |  |
| DIN valve connectors                                                                                                  |  |  |  | DIN valve connectors                                                                                   |  |  |  | DIN valve connectors                                                                                   |  |  |  |                                  |  |  |  |                                  |  |  |  |                                  |  |  |  |                                  |  |  |  |                                  |  |  |  |                           |  |  |  |
| Industrial                                                                                                            |  |  |  | Industrial                                                                                             |  |  |  | Industrial                                                                                             |  |  |  |                                  |  |  |  |                                  |  |  |  |                                  |  |  |  |                                  |  |  |  |                                  |  |  |  |                           |  |  |  |
| C                                                                                                                     |  |  |  | C                                                                                                      |  |  |  | C                                                                                                      |  |  |  |                                  |  |  |  |                                  |  |  |  |                                  |  |  |  |                                  |  |  |  |                                  |  |  |  |                           |  |  |  |
| CP2N02L01C011                                                                                                         |  |  |  | CP2N02L02C011                                                                                          |  |  |  | CP2N02L03C011                                                                                          |  |  |  | CP1N02DL1C011                    |  |  |  | CP1N02DL2C011                    |  |  |  | CP1N02DL3C011                    |  |  |  | CP2N02VL1C011                    |  |  |  | CP2N02VL2C011                    |  |  |  | CP2N02VL3C011             |  |  |  |
| Square micro connector CP2 series complete with gasket and fixing screw. Connector without electronic.                |  |  |  | Square micro connector CP2 series complete with gasket and fixing screw. Connector without electronic. |  |  |  | Square micro connector CP2 series complete with gasket and fixing screw. Connector without electronic. |  |  |  |                                  |  |  |  |                                  |  |  |  |                                  |  |  |  |                                  |  |  |  |                                  |  |  |  |                           |  |  |  |
| 9.4mm                                                                                                                 |  |  |  | 9.4mm                                                                                                  |  |  |  | 9.4mm                                                                                                  |  |  |  |                                  |  |  |  |                                  |  |  |  |                                  |  |  |  |                                  |  |  |  |                                  |  |  |  |                           |  |  |  |
| 2poles + 2P.E.                                                                                                        |  |  |  | 2poles + 2P.E.                                                                                         |  |  |  | 2poles + 2P.E.                                                                                         |  |  |  |                                  |  |  |  |                                  |  |  |  |                                  |  |  |  |                                  |  |  |  |                                  |  |  |  |                           |  |  |  |
| H.6-12                                                                                                                |  |  |  | H.6-12                                                                                                 |  |  |  | H.6-12                                                                                                 |  |  |  |                                  |  |  |  |                                  |  |  |  |                                  |  |  |  |                                  |  |  |  |                                  |  |  |  |                           |  |  |  |
| Black                                                                                                                 |  |  |  | Black                                                                                                  |  |  |  | Black                                                                                                  |  |  |  |                                  |  |  |  |                                  |  |  |  |                                  |  |  |  |                                  |  |  |  |                                  |  |  |  |                           |  |  |  |
| 21mm                                                                                                                  |  |  |  | 21mm                                                                                                   |  |  |  | 21mm                                                                                                   |  |  |  |                                  |  |  |  |                                  |  |  |  |                                  |  |  |  |                                  |  |  |  |                                  |  |  |  |                           |  |  |  |
| Integrated NBR gasket                                                                                                 |  |  |  | Integrated NBR gasket                                                                                  |  |  |  | Integrated NBR gasket                                                                                  |  |  |  |                                  |  |  |  |                                  |  |  |  |                                  |  |  |  |                                  |  |  |  |                                  |  |  |  |                           |  |  |  |
| <b>Technical data</b>                                                                                                 |  |  |  |                                                                                                        |  |  |  |                                                                                                        |  |  |  |                                  |  |  |  |                                  |  |  |  |                                  |  |  |  |                                  |  |  |  |                                  |  |  |  |                           |  |  |  |
| 24V AC/ DC                                                                                                            |  |  |  | 115V AC/DC                                                                                             |  |  |  | 230V AC/DC                                                                                             |  |  |  | 24V DC                           |  |  |  | 115V DC                          |  |  |  | 230V DC                          |  |  |  | 24V AC/ DC                       |  |  |  | 115V AC/DC                       |  |  |  | 230V AC/DC                |  |  |  |
| Bipolar Led                                                                                                           |  |  |  | Bipolar Led                                                                                            |  |  |  | Bipolar Led                                                                                            |  |  |  | Led + Diode(1A)                  |  |  |  | Led + Diode(1A)                  |  |  |  | Led + Diode(1A)                  |  |  |  | Bipolar Led + Varistor           |  |  |  | Bipolar Led + Varistor           |  |  |  | Bipolar Led + Varistor    |  |  |  |
| Red                                                                                                                   |  |  |  | Red                                                                                                    |  |  |  | Red                                                                                                    |  |  |  | Red                              |  |  |  | Red                              |  |  |  | Red                              |  |  |  | Red                              |  |  |  | Red                              |  |  |  | Red                       |  |  |  |
| M3 L=22.5mm                                                                                                           |  |  |  | M3 L=22.5mm                                                                                            |  |  |  | M3 L=22.5mm                                                                                            |  |  |  | M3 L=22.5mm                      |  |  |  | M3 L=22.5mm                      |  |  |  | M3 L=22.5mm                      |  |  |  | M3 L=22.5mm                      |  |  |  | M3 L=22.5mm                      |  |  |  | M3 L=22.5mm               |  |  |  |
| Iron+Zinc plated                                                                                                      |  |  |  | Iron+Zinc plated                                                                                       |  |  |  | Iron+Zinc plated                                                                                       |  |  |  | Iron+Zinc plated                 |  |  |  | Iron+Zinc plated                 |  |  |  | Iron+Zinc plated                 |  |  |  | Iron+Zinc plated                 |  |  |  | Iron+Zinc plated                 |  |  |  | Iron+Zinc plated          |  |  |  |
| 0.5 N*m                                                                                                               |  |  |  | 0.5 N*m                                                                                                |  |  |  | 0.5 N*m                                                                                                |  |  |  | 0.5 N*m                          |  |  |  | 0.5 N*m                          |  |  |  | 0.5 N*m                          |  |  |  | 0.5 N*m                          |  |  |  | 0.5 N*m                          |  |  |  | 0.5 N*m                   |  |  |  |
| PVC/PVC IEC332-1 H03VVF                                                                                               |  |  |  | PVC/PVC IEC332-1 H03VVF                                                                                |  |  |  | PVC/PVC IEC332-1 H03VVF                                                                                |  |  |  | PVC/PVC IEC332-1 H03VVF          |  |  |  | PVC/PVC IEC332-1 H03VVF          |  |  |  | PVC/PVC IEC332-1 H03VVF          |  |  |  | PVC/PVC IEC332-1 H03VVF          |  |  |  | PVC/PVC IEC332-1 H03VVF          |  |  |  | PVC/PVC IEC332-1 H03VVF   |  |  |  |
| Black                                                                                                                 |  |  |  | Black                                                                                                  |  |  |  | Black                                                                                                  |  |  |  | Black                            |  |  |  | Black                            |  |  |  | Black                            |  |  |  | Black                            |  |  |  | Black                            |  |  |  | Black                     |  |  |  |
| 3G0.5mm²                                                                                                              |  |  |  | 3G0.5mm²                                                                                               |  |  |  | 3G0.5mm²                                                                                               |  |  |  | 3G0.5mm²                         |  |  |  | 3G0.5mm²                         |  |  |  | 3G0.5mm²                         |  |  |  | 3G0.5mm²                         |  |  |  | 3G0.5mm²                         |  |  |  | 3G0.5mm²                  |  |  |  |
| Brown; Blue; Yellow-Green                                                                                             |  |  |  | Brown; Blue; Yellow-Green                                                                              |  |  |  | Brown; Blue; Yellow-Green                                                                              |  |  |  | Brown; Blue; Yellow-Green        |  |  |  | Brown; Blue; Yellow-Green        |  |  |  | Brown; Blue; Yellow-Green        |  |  |  | Brown; Blue; Yellow-Green        |  |  |  | Brown; Blue; Yellow-Green        |  |  |  | Brown; Blue; Yellow-Green |  |  |  |
| ø5mm (±0.3)                                                                                                           |  |  |  | ø5mm (±0.3)                                                                                            |  |  |  | ø5mm (±0.3)                                                                                            |  |  |  | ø5mm (±0.3)                      |  |  |  | ø5mm (±0.3)                      |  |  |  | ø5mm (±0.3)                      |  |  |  | ø5mm (±0.3)                      |  |  |  | ø5mm (±0.3)                      |  |  |  | ø5mm (±0.3)               |  |  |  |
| 1m                                                                                                                    |  |  |  | 1m                                                                                                     |  |  |  | 1m                                                                                                     |  |  |  | 1m                               |  |  |  | 1m                               |  |  |  | 1m                               |  |  |  | 1m                               |  |  |  | 1m                               |  |  |  | 1m                        |  |  |  |
| <b>Packaging</b>                                                                                                      |  |  |  |                                                                                                        |  |  |  |                                                                                                        |  |  |  |                                  |  |  |  |                                  |  |  |  |                                  |  |  |  |                                  |  |  |  |                                  |  |  |  |                           |  |  |  |
| Variable according cable length.                                                                                      |  |  |  | Variable according cable length.                                                                       |  |  |  | Variable according cable length.                                                                       |  |  |  | Variable according cable length. |  |  |  | Variable according cable length. |  |  |  | Variable according cable length. |  |  |  | Variable according cable length. |  |  |  | Variable according cable length. |  |  |  |                           |  |  |  |
| <b>Other accessories options</b>                                                                                      |  |  |  |                                                                                                        |  |  |  |                                                                                                        |  |  |  |                                  |  |  |  |                                  |  |  |  |                                  |  |  |  |                                  |  |  |  |                                  |  |  |  |                           |  |  |  |
| See accessories section                                                                                               |  |  |  |                                                                                                        |  |  |  |                                                                                                        |  |  |  |                                  |  |  |  |                                  |  |  |  |                                  |  |  |  |                                  |  |  |  |                                  |  |  |  |                           |  |  |  |
| <b>Notes:</b>                                                                                                         |  |  |  |                                                                                                        |  |  |  |                                                                                                        |  |  |  |                                  |  |  |  |                                  |  |  |  |                                  |  |  |  |                                  |  |  |  |                                  |  |  |  |                           |  |  |  |
| Connector available with different feautres:<br>See the cable codification scheme page<br>See the cables list section |  |  |  |                                                                                                        |  |  |  |                                                                                                        |  |  |  |                                  |  |  |  |                                  |  |  |  |                                  |  |  |  |                                  |  |  |  |                                  |  |  |  |                           |  |  |  |



|                                                                                                                                         |                                                                                                                                  |                                                                                                                                  |                                                                                                                               |                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| <b>Technical drawing</b>                                                                                                                |                                                                                                                                  |                                                                                                                                  |                                                                                                                               |                                             |
|                                                                                                                                         |                                                                                                                                  |                                                                                                                                  |                                                                                                                               |                                             |
| <b>Product description</b>                                                                                                              |                                                                                                                                  |                                                                                                                                  |                                                                                                                               |                                             |
| Connector type                                                                                                                          | DIN valve connectors                                                                                                             | DIN valve connectors                                                                                                             | DIN valve connectors                                                                                                          |                                             |
| Conforms to                                                                                                                             | Industrial                                                                                                                       | Industrial                                                                                                                       | Industrial                                                                                                                    |                                             |
| Construction type                                                                                                                       | C                                                                                                                                | C                                                                                                                                | C                                                                                                                             |                                             |
| Part number                                                                                                                             | <b>CP2CN02000C011</b>                                                                                                            | <b>CP2CN03000AB11</b>                                                                                                            | <b>CP2CN02VL1C011</b>                                                                                                         | <b>CP2CN02VL2C011</b> <b>CP2CN02VL3C011</b> |
| Description                                                                                                                             | Square micro connector CP2C series (TOP exit DIN connector) complete with gasket and fixing screw. Connector without electronic. | Square micro connector CP2C series (TOP exit DIN connector) complete with gasket and fixing screw. Connector without electronic. | Square micro connector CP2C series (TOP exit DIN connector) complete with gasket and fixing screw. Connector with electronic. |                                             |
| Contacts spacing                                                                                                                        | 9.4mm                                                                                                                            | 9.4mm                                                                                                                            | 9.4mm                                                                                                                         |                                             |
| Number of contacts                                                                                                                      | 2poles + 2P.E.                                                                                                                   | 3poles + P.E.                                                                                                                    | 2poles + 2P.E.                                                                                                                |                                             |
| Earth positioning                                                                                                                       | H.6-12                                                                                                                           | H.6                                                                                                                              | H.6-12                                                                                                                        |                                             |
| Housing colour                                                                                                                          | Black                                                                                                                            | Black                                                                                                                            | Black                                                                                                                         |                                             |
| Housing height                                                                                                                          | 21mm                                                                                                                             | 21mm                                                                                                                             | 21mm                                                                                                                          |                                             |
| Gasket type                                                                                                                             | Integrated NBR gasket                                                                                                            | Integrated NBR gasket                                                                                                            | Integrated NBR gasket                                                                                                         |                                             |
| <b>Technical data</b>                                                                                                                   |                                                                                                                                  |                                                                                                                                  |                                                                                                                               |                                             |
| Rated voltage                                                                                                                           | 250V AC/ 300VDC                                                                                                                  | 250V AC/ 300VDC                                                                                                                  | 24V AC/ DC                                                                                                                    | 115V AC/DC 230V AC/DC                       |
| Circuit type                                                                                                                            | -                                                                                                                                | -                                                                                                                                | Bipolar Led + Varistor                                                                                                        |                                             |
| Led colour                                                                                                                              | -                                                                                                                                | -                                                                                                                                | Red                                                                                                                           |                                             |
| Central fixing screw                                                                                                                    | M3 L=21.5mm                                                                                                                      | M3 L=21.5mm                                                                                                                      | M3 L=21.5mm                                                                                                                   |                                             |
| Central fixing screw material                                                                                                           | Iron+Zinc plated                                                                                                                 | Iron+Zinc plated                                                                                                                 | Iron+Zinc plated                                                                                                              |                                             |
| Central screw torque                                                                                                                    | 0.5 N*m                                                                                                                          | 0.5 N*m                                                                                                                          | 0.5 N*m                                                                                                                       |                                             |
| Cable type                                                                                                                              | PVC/PVC IEC332-1 H03VVF                                                                                                          | PVC/PVC IEC332-1 H03VVF                                                                                                          | PVC/PVC IEC332-1 H03VVF                                                                                                       |                                             |
| Cable jacket colour                                                                                                                     | Black                                                                                                                            | Black                                                                                                                            | Black                                                                                                                         |                                             |
| No.Conductors / Section                                                                                                                 | 3G0.5mm²                                                                                                                         | 4G0.5mm²                                                                                                                         | 3G0.5mm²                                                                                                                      |                                             |
| Conductor colours                                                                                                                       | Brown; Blue; Yellow-Green                                                                                                        | Brown; Blue; Black; Yellow-Green                                                                                                 | Brown; Blue; Yellow-Green                                                                                                     |                                             |
| Cable diameter                                                                                                                          | ø5mm (±0.3)                                                                                                                      | ø6mm (±0.3)                                                                                                                      | ø5mm (±0.3)                                                                                                                   |                                             |
| Cable length                                                                                                                            | 1m                                                                                                                               | 1m                                                                                                                               | 1m                                                                                                                            |                                             |
| <b>Packaging</b>                                                                                                                        |                                                                                                                                  |                                                                                                                                  |                                                                                                                               |                                             |
| Qty/Box                                                                                                                                 | Variable according cable length.                                                                                                 | Variable according cable length.                                                                                                 | Variable according cable length.                                                                                              |                                             |
| <b>Other accessories options</b>                                                                                                        |                                                                                                                                  |                                                                                                                                  |                                                                                                                               |                                             |
| See accessories section                                                                                                                 |                                                                                                                                  |                                                                                                                                  |                                                                                                                               |                                             |
| <b>Notes:</b><br>Connector available with different feautures:<br>See the cable codification scheme page<br>See the cables list section |                                                                                                                                  |                                                                                                                                  |                                                                                                                               |                                             |

● GENERAL FEATURES:

Conductor cross section :

BG series: Max. 1.00mm²(19AWG).  
BM series: Max. 1.00mm²(19AWG).  
BP series: Max. 0.75mm² (18AWG).

Fixing system :

Central fixing screw.

Max- screw torque IEC60947-1

(Central fixing nut) :  
BG series - BM1series - BP2 series: Max. 0.5 N \* m.  
BP1 series: Max. 0.4 N \* m.

Type of terminations :

To Solder.

Contact material and treatment :

Brass + Silver plated.

Base material :

PA66.

Flammability resistance :

UL94-V2 - Standard.  
UL94-V0 - UL approved (upon request).

Protection class :

IP 65 coupled.

Operating temperature :

-40°C +90°C Standard base  
-40°C +65°C UL approved base (-UL)  
-40°C +90°C UL approved base (-UL90)  
-40°C +90°C with NBR gasket.  
-40°C +125°C with Silicone gasket.

Nominal current :

10A (BP1-BP2 series: 6A).

Max contact current :

16A (BP1-BP2 series: 10A).

BG1 N 0 2 00 0 - ##

SERIES

**BG0** : SQUARE EN175301-803 BASE form A (18mm)  
WITH No.4 FIXING HOLES.  
**BG1** : SQUARE EN175301-803 BASE form A (18mm)  
WITH No.4 FIXING HOLES.  
**BG4** : SQUARE EN175301-803 BASE form A (18mm)  
WITH No.4 FIXING HOLES + CIRCULAR PART ø22mm.  
**BG5** : SQUARE EN175301-803 BASE form A (18mm)  
WITH No.2 FIXING HOLES.  
**BG7** : CIRCULAR EN175301-803 form A (18mm) ø27mm.  
**BG8** : SQUARE EN175301-803 form A (18mm) SUITABLE  
FOR CYLINDERS ø80mm.  
**BG10** : SQUARE EN175301-803 form A (18mm) SUITABLE  
FOR CYLINDERS ø100mm.  
**BG16** : SQUARE EN175301-803 form A (18mm) SUITABLE  
FOR CYLINDERS ø160mm.  
**BG33** : SQUARE EN175301-803 form A (18mm) SUITABLE  
FOR CYLINDERS ø33mm.  
**BG42** : SQUARE EN175301-803 form A (18mm) SUITABLE  
FOR CYLINDERS ø42mm.  
**BGR** : CIRCULAR EN175301-803 form A (18mm) with M27  
FIXING CIRCULAR NUT.  
**BM1** : RECTANGULAR INDUSTRIAL form B (11mm)  
**BP1** : SQUARE MICRO EN175301-803 form C (8mm)  
**BP2** : SQUARE MICRO INDUSTRIAL form C (9.4mm)  
**BP3** : SQUARE MICRO INDUSTRIAL form C (9.4mm) WITH  
CIRCULAR PART ø15.2mm.

COLOUR

G : GREY. N : BLACK (STANDARD). T : TRANSPARENT.

0

POLES No.

2 : 2POLES + EARTH. 3 : 3POLES + EARTH.

CIRCUIT TYPE

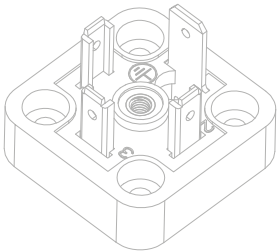
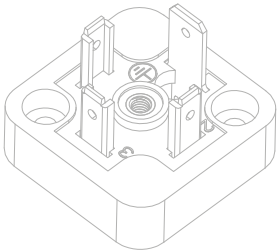
00 : WITHOUT ELECTRONIC.

VOLTAGE

0 : 250V / 300V.

SOME VARIABLES

UL : UL APPROVED +65°C.  
UL90: UL APPROVED +90°C  
PG11 : BGR SERIES WITH ADAPTER FROM M27 TO PG11.  
PG13.5 : BGR SERIES WITH ADAPTER FROM M27 TO PG13.5.  
M20 : BGR SERIES WITH ADAPTER FROM M27 TO M20X1.5.  
1/2" NPTF : BGR SERIES WITH ADAPTER FROM M27 TO 1/2" NPTF.

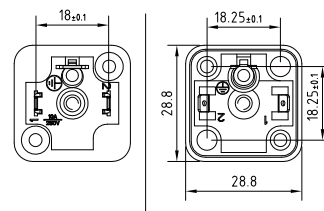
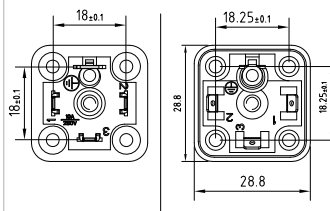
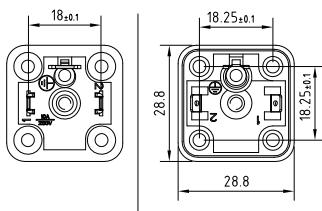
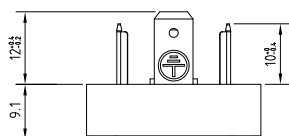




|                                  |                                                                          |                                                                          |
|----------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|
| <b>Technical drawing</b>         |                                                                          |                                                                          |
|                                  |                                                                          |                                                                          |
| <b>Product description</b>       |                                                                          |                                                                          |
| Connector type                   | Square base for DIN valve connectors                                     | Square base for DIN valve connectors                                     |
| Conforms to                      | EN175301-803                                                             | EN175301-803                                                             |
| Construction type                | A                                                                        | A                                                                        |
| Part number                      | <b>BG0N02000</b>                                                         | <b>BG0N03000</b>                                                         |
| Description                      | Square base connector BG0 series complete with gasket and fixing screws. | Square base connector BG0 series complete with gasket and fixing screws. |
| Contacts spacing                 | 18mm                                                                     | 18mm                                                                     |
| Number of contacts               | 2poles + P.E.                                                            | 3poles + P.E.                                                            |
| Earth positioning                | -                                                                        | -                                                                        |
| Base colour                      | Black                                                                    | Black                                                                    |
| Base height                      | 5.5mm                                                                    | 5.5mm                                                                    |
| Gasket type                      | Flat NBR gasket                                                          | Flat NBR gasket                                                          |
| <b>Technical data</b>            |                                                                          |                                                                          |
| Rated voltage                    | 250V AC/ 300VDC                                                          | 250V AC/ 300VDC                                                          |
| Number of fixing holes           | N°4                                                                      | N°4                                                                      |
| Diameter of fixing holes         | ø3.2mm                                                                   | ø3.2mm                                                                   |
| Fixing screws material (x4)      | Iron + Zinc plated                                                       | Iron + Zinc plated                                                       |
| Fixing screws length (x4)        | M3 L=7.3mm                                                               | M3 L=7.3mm                                                               |
| Fixing screws torque (x4)        | 0.5 N*m                                                                  | 0.5 N*m                                                                  |
| Earth fixing screw material      | -                                                                        | -                                                                        |
| Earth fixing screws length       | -                                                                        | -                                                                        |
| Earth screw torque               | -                                                                        | -                                                                        |
| Central nut type                 | M3 Closed                                                                | M3 Closed                                                                |
| <b>Packaging</b>                 |                                                                          |                                                                          |
| Qty/Box                          | 200pcs / box                                                             | 200pcs / box                                                             |
| <b>Other accessories options</b> |                                                                          |                                                                          |
| See accessories section          |                                                                          |                                                                          |
| <b>Notes:</b>                    |                                                                          |                                                                          |
|                                  | Base in Grey colour: P/N BG0G02000                                       | Base in Grey colour: P/N BG0G03000                                       |



#### Technical drawing



#### Product description

|                    |                                                                          |                                                                          |                                                                          |
|--------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|
| Connector type     | Square base for DIN valve connectors                                     | Square base for DIN valve connectors                                     | Square base for DIN valve connectors                                     |
| Conforms to        | EN175301-803                                                             | EN175301-803                                                             | EN175301-803                                                             |
| Construction type  | A                                                                        | A                                                                        | A                                                                        |
| Part number        | <b>BG1N02000</b>                                                         | <b>BG1N03000</b>                                                         | <b>BG5N02000</b>                                                         |
| Description        | Square base connector BG1 series complete with gasket and fixing screws. | Square base connector BG1 series complete with gasket and fixing screws. | Square base connector BG5 series complete with gasket and fixing screws. |
| Contacts spacing   | 18mm                                                                     | 18mm                                                                     | 18mm                                                                     |
| Number of contacts | 2poles + P.E.                                                            | 3poles + P.E.                                                            | 2poles + P.E.                                                            |
| Earth positioning  | -                                                                        | -                                                                        | -                                                                        |
| Base colour        | Black                                                                    | Black                                                                    | Black                                                                    |
| Base height        | 9.1mm                                                                    | 9.1mm                                                                    | 9.1mm                                                                    |
| Gasket type        | Flat NBR gasket                                                          | Flat NBR gasket                                                          | Flat NBR gasket                                                          |

#### Technical data

|                             |                    |                    |                    |
|-----------------------------|--------------------|--------------------|--------------------|
| Rated voltage               | 250V AC/ 300VDC    | 250V AC/ 300VDC    | 250V AC/ 300VDC    |
| Number of fixing holes      | N°4                | N°4                | N°2                |
| Diameter of fixing holes    | ø3.2mm             | ø3.2mm             | ø3.2mm             |
| Fixing screws material (x4) | Iron + Zinc plated | Iron + Zinc plated | Iron + Zinc plated |
| Fixing screws length (x4)   | M3 L=10mm          | M3 L=10mm          | M3 L=10mm          |
| Fixing screws torque (x4)   | 0.5 N*m            | 0.5 N*m            | 0.5 N*m            |
| Earth fixing screw material | Iron + Zinc plated | Iron + Zinc plated | Iron + Zinc plated |
| Earth fixing screws length  | M3 L=4.8mm         | M3 L=4.8mm         | M3 L=4.8mm         |
| Earth screw torque          | 0.5 N*m            | 0.5 N*m            | 0.5 N*m            |
| Central nut type            | M3 Open            | M3 Open            | M3 Open            |

#### Packaging

|         |              |              |              |
|---------|--------------|--------------|--------------|
| Qty/Box | 200pcs / box | 200pcs / box | 200pcs / box |
|---------|--------------|--------------|--------------|

#### Other accessories options

See accessories section

#### Notes:

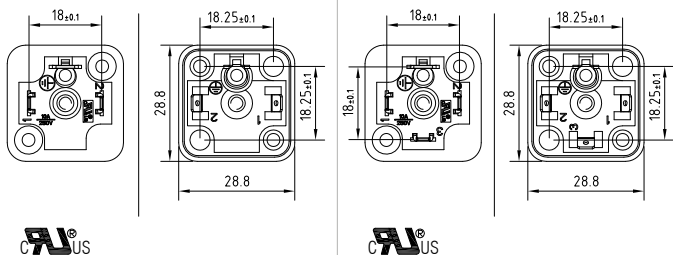
Base in Grey colour: P/N BG1G02000

Base in Grey colour: P/N BG1G03000

Base in Grey colour: P/N BG5G02000



|                                  |                                                                          |                                                                                        |                                                                                        |
|----------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| <b>Technical drawing</b>         |                                                                          |                                                                                        |                                                                                        |
|                                  |                                                                          |                                                                                        |                                                                                        |
| <b>Product description</b>       |                                                                          |                                                                                        |                                                                                        |
| Connector type                   | Square base for DIN valve connectors                                     | Square base for DIN valve connectors                                                   | Square base for DIN valve connectors                                                   |
| Conforms to                      | EN175301-803                                                             | EN175301-803                                                                           | EN175301-803                                                                           |
| Construction type                | A                                                                        | A                                                                                      | A                                                                                      |
| Part number                      | <b>BG5N03000</b>                                                         | <b>BG1N02000-UL</b>                                                                    | <b>BG1N03000-UL</b>                                                                    |
| Description                      | Square base connector BG5 series complete with gasket and fixing screws. | Square base connector BG1 series, UL approved, complete with gasket and fixing screws. | Square base connector BG1 series, UL approved, complete with gasket and fixing screws. |
| Contacts spacing                 | 18mm                                                                     | 18mm                                                                                   | 18mm                                                                                   |
| Number of contacts               | 3poles + P.E.                                                            | 2poles + P.E.                                                                          | 3poles + P.E.                                                                          |
| Earth positioning                | -                                                                        | -                                                                                      | -                                                                                      |
| Base colour                      | Black                                                                    | Black                                                                                  | Black                                                                                  |
| Base height                      | 9.1mm                                                                    | 9.1mm                                                                                  | 9.1mm                                                                                  |
| Gasket type                      | Flat NBR gasket                                                          | Flat NBR gasket                                                                        | Flat NBR gasket                                                                        |
| <b>Technical data</b>            |                                                                          |                                                                                        |                                                                                        |
| Rated voltage                    | 250V AC/ 300VDC                                                          | 250V AC/ 300VDC                                                                        | 250V AC/ 300VDC                                                                        |
| Number of fixing holes           | N°2                                                                      | N°4                                                                                    | N°4                                                                                    |
| Diameter of fixing holes         | ø3.2mm                                                                   | ø3.2mm                                                                                 | ø3.2mm                                                                                 |
| Fixing screws material (x4)      | Iron+Zinc plated                                                         | Iron+Zinc plated                                                                       | Iron+Zinc plated                                                                       |
| Fixing screws length (x4)        | M3 L=10mm                                                                | M3 L=10mm                                                                              | M3 L=10mm                                                                              |
| Fixing screws torque (x4)        | 0.5 N*m                                                                  | 0.5 N*m                                                                                | 0.5 N*m                                                                                |
| Earth fixing screw material      | Iron+Zinc plated                                                         | Iron+Zinc plated                                                                       | Iron+Zinc plated                                                                       |
| Earth fixing screws length       | M3 L=4.8mm                                                               | M3 L=4.8mm                                                                             | M3 L=4.8mm                                                                             |
| Earth screw torque               | 0.5 N*m                                                                  | 0.5 N*m                                                                                | 0.5 N*m                                                                                |
| Central nut type                 | M3 Open                                                                  | M3 Open                                                                                | M3 Open                                                                                |
| <b>Packaging</b>                 |                                                                          |                                                                                        |                                                                                        |
| Qty/Box                          | 200pcs / box                                                             | 200pcs / box                                                                           | 200pcs / box                                                                           |
| <b>Other accessories options</b> |                                                                          |                                                                                        |                                                                                        |
| See accessories section          |                                                                          |                                                                                        |                                                                                        |
| <b>Notes:</b>                    |                                                                          |                                                                                        |                                                                                        |
|                                  | Base in Grey colour: P/N BG5G03000                                       |                                                                                        |                                                                                        |



#### Product description

Square base for DIN valve connectors

EN175301-803

A

**BG5N02000-UL**

Square base connector BG5 series, UL approved, complete with gasket and fixing screws.

18mm

2poles + P.E.

-

Black

9.1mm

Flat NBR gasket

Square base for DIN valve connectors

EN175301-803

A

**BG5N03000-UL**

Square base connector BG5 series, UL approved, complete with gasket and fixing screws.

18mm

3poles + P.E.

-

Black

9.1mm

Flat NBR gasket

#### Technical data

250V AC/ 300VDC

N°2

ø3.2mm

Iron+Zinc plated

M3 L=10mm

0.5 N\*m

Iron+Zinc plated

M3 L=4.8mm

0.5 N\*m

M3 Open

250V AC/ 300VDC

N°2

ø3.2mm

Iron+Zinc plated

M3 L=10mm

0.5 N\*m

Iron+Zinc plated

M3 L=4.8mm

0.5 N\*m

M3 Open

#### Packaging

200pcs / box

200pcs / box

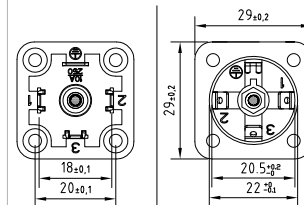
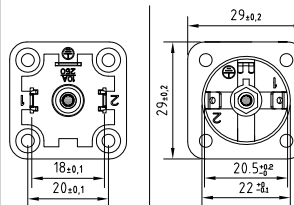
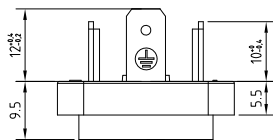
#### Other accessories options

See accessories section

#### Notes:



#### Technical drawing



#### Product description

|                    |                                                                          |                                                                          |
|--------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|
| Connector type     | Square base for DIN valve connectors                                     | Square base for DIN valve connectors                                     |
| Conforms to        | EN175301-803                                                             | EN175301-803                                                             |
| Construction type  | A                                                                        | A                                                                        |
| Part number        | <b>BG4N02000</b>                                                         | <b>BG4N03000</b>                                                         |
| Description        | Square base connector BG4 series complete with gasket and fixing screws. | Square base connector BG4 series complete with gasket and fixing screws. |
| Contacts spacing   | 18mm                                                                     | 18mm                                                                     |
| Number of contacts | 2poles + P.E.                                                            | 3poles + P.E.                                                            |
| Earth positioning  | -                                                                        | -                                                                        |
| Base colour        | Black                                                                    | Black                                                                    |
| Base height        | 9.5mm                                                                    | 9.5mm                                                                    |
| Gasket type        | Flat NBR gasket                                                          | Flat NBR gasket                                                          |

#### Technical data

|                             |                     |                     |
|-----------------------------|---------------------|---------------------|
| Rated voltage               | 250V AC/ 300VDC     | 250V AC/ 300VDC     |
| Number of fixing holes      | N°4                 | N°4                 |
| Diameter of fixing holes    | ø3.2mm              | ø3.2mm              |
| Fixing screws material (x4) | Iron + Zinc plated  | Iron + Zinc plated  |
| Fixing screws length (x4)   | M3 L=7.3mm          | M3 L=7.3mm          |
| Fixing screws torque (x4)   | 0.5 N*m             | 0.5 N*m             |
| Earth fixing screw material | -                   | -                   |
| Earth fixing screws length  | -                   | -                   |
| Earth screw torque          | -                   | -                   |
| Central nut type            | M3 Hexagonal closed | M3 Hexagonal closed |

#### Packaging

|         |              |              |
|---------|--------------|--------------|
| Qty/Box | 200pcs / box | 200pcs / box |
|---------|--------------|--------------|

#### Other accessories options

See accessories section

#### Notes:

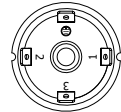
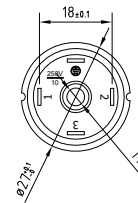
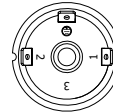
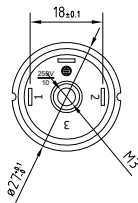
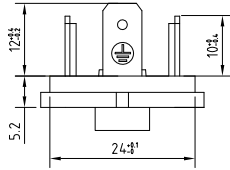
Base in Grey colour: P/N BG4G02000

Base in Grey colour: P/N BG4G03000





#### Technical drawing



#### Product description

|                    |                                                                      |                                                                      |
|--------------------|----------------------------------------------------------------------|----------------------------------------------------------------------|
| Connector type     | Circular base for DIN valve connectors                               | Circular base for DIN valve connectors                               |
| Conforms to        | EN175301-803                                                         | EN175301-803                                                         |
| Construction type  | A                                                                    | A                                                                    |
| Part number        | <b>BG7N02000</b>                                                     | <b>BG7N03000</b>                                                     |
| Description        | Circular base connector BG7 series without gasket and fixing screws. | Circular base connector BG7 series without gasket and fixing screws. |
| Contacts spacing   | 18mm                                                                 | 18mm                                                                 |
| Number of contacts | 2poles + P.E.                                                        | 3poles + P.E.                                                        |
| Earth positioning  | -                                                                    | -                                                                    |
| Base colour        | Black                                                                | Black                                                                |
| Base height        | 5.2mm                                                                | 5.2mm                                                                |
| Gasket type        | -                                                                    | -                                                                    |

#### Technical data

|                             |                 |                 |
|-----------------------------|-----------------|-----------------|
| Rated voltage               | 250V AC/ 300VDC | 250V AC/ 300VDC |
| Number of fixing holes      | -               | -               |
| Diameter of fixing holes    | -               | -               |
| Fixing screws material      | -               | -               |
| Fixing screws length        | -               | -               |
| Fixing screws torque        | -               | -               |
| Earth fixing screw material | -               | -               |
| Earth fixing screws length  | -               | -               |
| Earth screw torque          | -               | -               |
| Central nut type            | M3 Closed       | M3 Closed       |

#### Packaging

|         |              |              |
|---------|--------------|--------------|
| Qty/Box | 200pcs / box | 200pcs / box |
|---------|--------------|--------------|

#### Other accessories options

See accessories section

#### Notes:

Base in Grey colour: P/N BG7G02000

Base in Grey colour: P/N BG7G03000



|                                  |                                                                                                |                                                                                                |                                                                                                               |
|----------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| <b>Technical drawing</b>         |                                                                                                |                                                                                                |                                                                                                               |
|                                  |                                                                                                |                                                                                                |                                                                                                               |
| <b>Product description</b>       |                                                                                                |                                                                                                |                                                                                                               |
| Connector type                   | Circular base for DIN valve connectors                                                         | Circular base for DIN valve connectors                                                         | Circular base for DIN valve connectors                                                                        |
| Conforms to                      | EN175301-803                                                                                   | EN175301-803                                                                                   | EN175301-803                                                                                                  |
| Construction type                | A                                                                                              | A                                                                                              | A                                                                                                             |
| Part number                      | <b>BGRN02000</b>                                                                               | <b>BGRN03000</b>                                                                               | <b>BGRN02000-PG11</b>                                                                                         |
| Description                      | Circular base connector BGR series with plastic fixing nut M27X1.5. Base without fixing screws | Circular base connector BGR series with plastic fixing nut M27X1.5. Base without fixing screws | Circular base connector BGR series with plastic fixing nut M27X1.5+PG11 reduction. Base without fixing screws |
| Contacts spacing                 | 18mm                                                                                           | 18mm                                                                                           | 18mm                                                                                                          |
| Number of contacts               | 2poles + P.E.                                                                                  | 3poles + P.E.                                                                                  | 2poles + P.E.                                                                                                 |
| Earth positioning                | -                                                                                              | -                                                                                              | -                                                                                                             |
| Base colour                      | Black                                                                                          | Black                                                                                          | Black                                                                                                         |
| Base height                      | 10.5mm (with plastic fixing nut)                                                               | 10.5mm (with plastic fixing nut)                                                               | 24.5mm (with fixing nut and reduction)                                                                        |
| Gasket type                      | -                                                                                              | -                                                                                              | -                                                                                                             |
| <b>Technical data</b>            |                                                                                                |                                                                                                |                                                                                                               |
| Rated voltage                    | 250V AC/ 300VDC                                                                                | 250V AC/ 300VDC                                                                                | 250V AC/ 300VDC                                                                                               |
| Number of fixing holes           | -                                                                                              | -                                                                                              | -                                                                                                             |
| Diameter of fixing holes         | -                                                                                              | -                                                                                              | -                                                                                                             |
| Fixing screws material           | -                                                                                              | -                                                                                              | -                                                                                                             |
| Fixing screws length             | -                                                                                              | -                                                                                              | -                                                                                                             |
| Fixing screws torque             | -                                                                                              | -                                                                                              | -                                                                                                             |
| Earth fixing screw material      | -                                                                                              | -                                                                                              | -                                                                                                             |
| Earth fixing screws length       | -                                                                                              | -                                                                                              | -                                                                                                             |
| Earth screw torque               | -                                                                                              | -                                                                                              | -                                                                                                             |
| Central nut type                 | M3 Open                                                                                        | M3 Open                                                                                        | M3 Open                                                                                                       |
| Reduction type                   | -                                                                                              | -                                                                                              | From M27x1.5 to PG11                                                                                          |
| <b>Packaging</b>                 |                                                                                                |                                                                                                |                                                                                                               |
| Qty/Box                          | 200pcs / box                                                                                   | 200pcs / box                                                                                   | 200pcs / box                                                                                                  |
| <b>Other accessories options</b> |                                                                                                |                                                                                                |                                                                                                               |
| See accessories section          |                                                                                                |                                                                                                |                                                                                                               |
| <b>Notes:</b>                    |                                                                                                |                                                                                                |                                                                                                               |
|                                  | Base in Grey colour: P/N BGRG02000                                                             | Base in Grey colour: P/N BGRG03000                                                             |                                                                                                               |



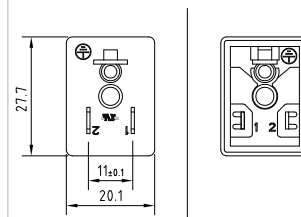
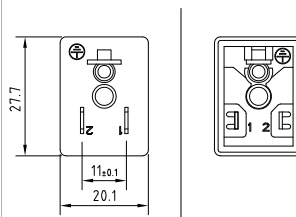
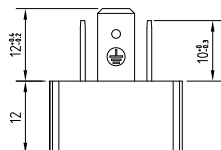
|                                  |                                                                                                               |                                                                                                                 |                                                                                                                 |
|----------------------------------|---------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| <b>Technical drawing</b>         |                                                                                                               |                                                                                                                 |                                                                                                                 |
|                                  |                                                                                                               |                                                                                                                 |                                                                                                                 |
| <b>Product description</b>       |                                                                                                               |                                                                                                                 |                                                                                                                 |
| Connector type                   | Circular base for DIN valve connectors                                                                        | Circular base for DIN valve connectors                                                                          | Circular base for DIN valve connectors                                                                          |
| Conforms to                      | EN175301-803                                                                                                  | EN175301-803                                                                                                    | EN175301-803                                                                                                    |
| Construction type                | A                                                                                                             | A                                                                                                               | A                                                                                                               |
| Part number                      | <b>BGRN03000-PG11</b>                                                                                         | <b>BGRN02000-PG13.5</b>                                                                                         | <b>BGRN03000-PG13.5</b>                                                                                         |
| Description                      | Circular base connector BGR series with plastic fixing nut M27X1.5+PG11 reduction. Base without fixing screws | Circular base connector BGR series with plastic fixing nut M27X1.5+PG13.5 reduction. Base without fixing screws | Circular base connector BGR series with plastic fixing nut M27X1.5+PG13.5 reduction. Base without fixing screws |
| Contacts spacing                 | 18mm                                                                                                          | 18mm                                                                                                            | 18mm                                                                                                            |
| Number of contacts               | 3poles + P.E.                                                                                                 | 2poles + P.E.                                                                                                   | 3poles + P.E.                                                                                                   |
| Earth positioning                | -                                                                                                             | -                                                                                                               | -                                                                                                               |
| Base colour                      | Black                                                                                                         | Black                                                                                                           | Black                                                                                                           |
| Base height                      | 24.5mm (with fixing nut and reduction)                                                                        | 24.5mm (with fixing nut and reduction)                                                                          | 24.5mm (with fixing nut and reduction)                                                                          |
| Gasket type                      | -                                                                                                             | -                                                                                                               | -                                                                                                               |
| <b>Technical data</b>            |                                                                                                               |                                                                                                                 |                                                                                                                 |
| Rated voltage                    | 250V AC/ 300VDC                                                                                               | 250V AC/ 300VDC                                                                                                 | 250V AC/ 300VDC                                                                                                 |
| Number of fixing holes           | -                                                                                                             | -                                                                                                               | -                                                                                                               |
| Diameter of fixing holes         | -                                                                                                             | -                                                                                                               | -                                                                                                               |
| Fixing screws material           | -                                                                                                             | -                                                                                                               | -                                                                                                               |
| Fixing screws length             | -                                                                                                             | -                                                                                                               | -                                                                                                               |
| Fixing screws torque             | -                                                                                                             | -                                                                                                               | -                                                                                                               |
| Earth fixing screw material      | -                                                                                                             | -                                                                                                               | -                                                                                                               |
| Earth fixing screws length       | -                                                                                                             | -                                                                                                               | -                                                                                                               |
| Earth screw torque               | -                                                                                                             | -                                                                                                               | -                                                                                                               |
| Central nut type                 | M3 Open                                                                                                       | M3 Open                                                                                                         | M3 Open                                                                                                         |
| Reduction type                   | From M27x1.5 to PG11                                                                                          | From M27x1.5 to PG13.5                                                                                          | From M27x1.5 to PG13.5                                                                                          |
| <b>Packaging</b>                 |                                                                                                               |                                                                                                                 |                                                                                                                 |
| Qty/Box                          | 200pcs / box                                                                                                  | 200pcs / box                                                                                                    | 200pcs / box                                                                                                    |
| <b>Other accessories options</b> |                                                                                                               |                                                                                                                 |                                                                                                                 |
| See accessories section          |                                                                                                               |                                                                                                                 |                                                                                                                 |
| <b>Notes:</b>                    |                                                                                                               |                                                                                                                 |                                                                                                                 |



|                                                                                                                           |  |                                                                                                                           |  |                                                                                                                           |  |                                                                                                                           |  |
|---------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------|--|
|                                                                                                                           |  |                                                                                                                           |  |                                                                                                                           |  |                                                                                                                           |  |
| <b>Product description</b>                                                                                                |  |                                                                                                                           |  |                                                                                                                           |  |                                                                                                                           |  |
| Circular base for DIN valve connectors                                                                                    |  | Circular base for DIN valve connectors                                                                                    |  | Circular base for DIN valve connectors                                                                                    |  | Circular base for DIN valve connectors                                                                                    |  |
| EN175301-803                                                                                                              |  | EN175301-803                                                                                                              |  | EN175301-803                                                                                                              |  | EN175301-803                                                                                                              |  |
| A                                                                                                                         |  | A                                                                                                                         |  | A                                                                                                                         |  | A                                                                                                                         |  |
| <b>BGRN02000-M20</b>                                                                                                      |  | <b>BGRN03000-M20</b>                                                                                                      |  | <b>BGRN02000-1/2NPTF</b>                                                                                                  |  | <b>BGRN03000-1/2NPTF</b>                                                                                                  |  |
| Circular base connector BGR series <b>with plastic fixing nut M27X1.5</b> + M20x1.5 reduction. Base without fixing screws |  | Circular base connector BGR series <b>with plastic fixing nut M27X1.5</b> + M20x1.5 reduction. Base without fixing screws |  | Circular base connector BGR series <b>with plastic fixing nut M27X1.5</b> + 1/2NPTF reduction. Base without fixing screws |  | Circular base connector BGR series <b>with plastic fixing nut M27X1.5</b> + 1/2NPTF reduction. Base without fixing screws |  |
| 18mm                                                                                                                      |  | 18mm                                                                                                                      |  | 18mm                                                                                                                      |  | 18mm                                                                                                                      |  |
| 2poles + P.E.                                                                                                             |  | 3poles + P.E.                                                                                                             |  | 2poles + P.E.                                                                                                             |  | 3poles + P.E.                                                                                                             |  |
| -                                                                                                                         |  | -                                                                                                                         |  | -                                                                                                                         |  | -                                                                                                                         |  |
| Black                                                                                                                     |  | Black                                                                                                                     |  | Black                                                                                                                     |  | Black                                                                                                                     |  |
| 24.5mm (with fixing nut and reduction)                                                                                    |  | 24.5mm (with fixing nut and reduction)                                                                                    |  | 29.5mm (with fixing nut and reduction)                                                                                    |  | 29.5mm (with fixing nut and reduction)                                                                                    |  |
| -                                                                                                                         |  | -                                                                                                                         |  | -                                                                                                                         |  | -                                                                                                                         |  |
| <b>Technical data</b>                                                                                                     |  |                                                                                                                           |  |                                                                                                                           |  |                                                                                                                           |  |
| 250V AC/ 300VDC                                                                                                           |  | 250V AC/ 300VDC                                                                                                           |  | 250V AC/ 300VDC                                                                                                           |  | 250V AC/ 300VDC                                                                                                           |  |
| -                                                                                                                         |  | -                                                                                                                         |  | -                                                                                                                         |  | -                                                                                                                         |  |
| -                                                                                                                         |  | -                                                                                                                         |  | -                                                                                                                         |  | -                                                                                                                         |  |
| -                                                                                                                         |  | -                                                                                                                         |  | -                                                                                                                         |  | -                                                                                                                         |  |
| -                                                                                                                         |  | -                                                                                                                         |  | -                                                                                                                         |  | -                                                                                                                         |  |
| -                                                                                                                         |  | -                                                                                                                         |  | -                                                                                                                         |  | -                                                                                                                         |  |
| -                                                                                                                         |  | -                                                                                                                         |  | -                                                                                                                         |  | -                                                                                                                         |  |
| -                                                                                                                         |  | -                                                                                                                         |  | -                                                                                                                         |  | -                                                                                                                         |  |
| -                                                                                                                         |  | -                                                                                                                         |  | -                                                                                                                         |  | -                                                                                                                         |  |
| M3 Open                                                                                                                   |  | M3 Open                                                                                                                   |  | M3 Open                                                                                                                   |  | M3 Open                                                                                                                   |  |
| From M27x1.5 to M20x1.5                                                                                                   |  | From M27x1.5 to M20x1.5                                                                                                   |  | From M27x1.5 to 1/2"NPTF                                                                                                  |  | From M27x1.5 to 1/2"NPTF                                                                                                  |  |
|                                                                                                                           |  |                                                                                                                           |  |                                                                                                                           |  |                                                                                                                           |  |
| <b>Packaging</b>                                                                                                          |  |                                                                                                                           |  |                                                                                                                           |  |                                                                                                                           |  |
| 200pcs / box                                                                                                              |  | 200pcs / box                                                                                                              |  | 200pcs / box                                                                                                              |  | 200pcs / box                                                                                                              |  |
| <b>Other accessories options</b>                                                                                          |  |                                                                                                                           |  |                                                                                                                           |  |                                                                                                                           |  |
| See accessories section                                                                                                   |  |                                                                                                                           |  |                                                                                                                           |  |                                                                                                                           |  |
| <b>Notes:</b>                                                                                                             |  |                                                                                                                           |  |                                                                                                                           |  |                                                                                                                           |  |



#### Technical drawing



#### Product description

|                    |                                                                               |                                                                                             |
|--------------------|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| Connector type     | Rectangular base for DIN valve connectors                                     | Rectangular base for DIN valve connectors                                                   |
| Conforms to        | Industrial                                                                    | Industrial                                                                                  |
| Construction type  | B                                                                             | B                                                                                           |
| Part number        | <b>BM1N02000</b>                                                              | <b>BM1N02000-UL</b>                                                                         |
| Description        | Rectangular base connector BM1 series complete with gasket and fixing screws. | Rectangular base connector BM1 series, UL approved, complete with gasket and fixing screws. |
| Contacts spacing   | 11mm                                                                          | 11mm                                                                                        |
| Number of contacts | 2poles + P.E.                                                                 | 2poles + P.E.                                                                               |
| Earth positioning  | -                                                                             | -                                                                                           |
| Base colour        | Black                                                                         | Black                                                                                       |
| Base height        | 12mm                                                                          | 12mm                                                                                        |
| Gasket type        | Flat NBR gasket                                                               | Flat NBR gasket                                                                             |

#### Technical data

|                             |                            |                            |
|-----------------------------|----------------------------|----------------------------|
| Rated voltage               | 250V AC/ 300VDC            | 250V AC/ 300VDC            |
| Number of fixing holes      | -                          | -                          |
| Diameter of fixing holes    | -                          | -                          |
| Fixing screws material (x1) | Iron + Zinc plated         | Iron + Zinc plated         |
| Fixing screws length (x1)   | M3(int.)-M4(ext.) L=15.5mm | M3(int.)-M4(ext.) L=15.5mm |
| Fixing screws torque (x1)   | 0.5 N*m                    | 0.5 N*m                    |
| Earth fixing screw material | Iron + Zinc plated         | Iron + Zinc plated         |
| Earth fixing screws length  | M3 L=5mm                   | M3 L=5mm                   |
| Earth screw torque          | 0.5 N*m                    | 0.5 N*m                    |
| Central nut type            | -                          | -                          |

#### Packaging

|         |              |              |
|---------|--------------|--------------|
| Qty/Box | 200pcs / box | 200pcs / box |
|---------|--------------|--------------|

#### Other accessories options

See accessories section

#### Notes:

Base in Grey colour: P/N BM1G02000



|                                                                       |                                                                          |                                                                          |                                                                                        |
|-----------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| <b>Technical drawing</b>                                              |                                                                          |                                                                          |                                                                                        |
|                                                                       |                                                                          |                                                                          |                                                                                        |
| <b>Product description</b>                                            |                                                                          |                                                                          |                                                                                        |
| Connector type                                                        | Square base for DIN valve connectors                                     | Square base for DIN valve connectors                                     | Square base for DIN valve connectors                                                   |
| Conforms to                                                           | EN175301-803                                                             | EN175301-803                                                             | EN175301-803                                                                           |
| Construction type                                                     | C                                                                        | C                                                                        | C                                                                                      |
| Part number                                                           | <b>BP1N02000</b>                                                         | <b>BP1N03000</b>                                                         | <b>BP1N02000-UL</b>                                                                    |
| Description                                                           | Square base connector BP1 series complete with gasket and fixing screws. | Square base connector BP1 series complete with gasket and fixing screws. | Square base connector BP1 series, UL approved, complete with gasket and fixing screws. |
| Contacts spacing                                                      | 8mm                                                                      | 8mm                                                                      | 8mm                                                                                    |
| Number of contacts                                                    | 2poles + P.E.                                                            | 3poles + P.E.                                                            | 2poles + P.E.                                                                          |
| Earth positioning                                                     | -                                                                        | -                                                                        | -                                                                                      |
| Base colour                                                           | Black                                                                    | Black                                                                    | Black                                                                                  |
| Base height                                                           | 8.5mm                                                                    | 8.5mm                                                                    | 8.5mm                                                                                  |
| Gasket type                                                           | Flat NBR gasket                                                          | Flat NBR gasket                                                          | Flat NBR gasket                                                                        |
| <b>Technical data</b>                                                 |                                                                          |                                                                          |                                                                                        |
| Rated voltage                                                         | 250V AC/ 300VDC                                                          | 250V AC/ 300VDC                                                          | 250V AC/ 300VDC                                                                        |
| Number of fixing holes                                                | N°2                                                                      | N°2                                                                      | N°2                                                                                    |
| Diameter of fixing holes                                              | ø3mm                                                                     | ø3mm                                                                     | ø3mm                                                                                   |
| Fixing screws material (x1)                                           | Iron+Zinc plated                                                         | Iron+Zinc plated                                                         | Iron+Zinc plated                                                                       |
| Fixing screws length (x1)                                             | M2.5 L=8mm                                                               | M2.5 L=8mm                                                               | M2.5 L=8mm                                                                             |
| Fixing screws torque (x1)                                             | 0.4 N*m                                                                  | 0.4 N*m                                                                  | 0.4 N*m                                                                                |
| Earth fixing screw material                                           | Iron+Zinc plated                                                         | Iron+Zinc plated                                                         | Iron+Zinc plated                                                                       |
| Earth fixing screws length                                            | -                                                                        | -                                                                        | -                                                                                      |
| Earth screw torque                                                    | -                                                                        | -                                                                        | -                                                                                      |
| Central nut type                                                      | M2.5 Open                                                                | M2.5 Open                                                                | M2.5 Open                                                                              |
| <b>Packaging</b>                                                      |                                                                          |                                                                          |                                                                                        |
| Qty/Box                                                               | 200pcs / box                                                             | 200pcs / box                                                             | 200pcs / box                                                                           |
| <b>Other accessories options</b><br>to be ordered separately see page |                                                                          |                                                                          |                                                                                        |
| <b>Notes:</b>                                                         |                                                                          |                                                                          |                                                                                        |
|                                                                       | Base in Grey colour: P/N BP1G02000                                       | Base in Grey colour: P/N BP1G03000                                       |                                                                                        |



|                                                                                        |                                   |                                                                          |                                                                          |
|----------------------------------------------------------------------------------------|-----------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|
| <br>                                                                                   | <b>Technical drawing</b>          |                                                                          | <br><br>                                                                 |
| <b>Product description</b>                                                             |                                   |                                                                          |                                                                          |
| Square base for DIN valve connectors                                                   | Connector type                    | Square base for DIN valve connectors                                     | Square base for DIN valve connectors                                     |
| EN175301-803                                                                           | Conforms to                       | Industrial                                                               | Industrial                                                               |
| C                                                                                      | Construction type                 | C                                                                        | C                                                                        |
| <b>BP1N03000-UL</b>                                                                    | Part number                       | <b>BP2N02000</b>                                                         | <b>BP2N03000</b>                                                         |
| Square base connector BP1 series, UL approved, complete with gasket and fixing screws. | Description                       | Square base connector BP2 series complete with gasket and fixing screws. | Square base connector BP2 series complete with gasket and fixing screws. |
| 8mm                                                                                    | Contacts spacing                  | 9.4mm                                                                    | 9.4mm                                                                    |
| 3poles + P.E.                                                                          | Number of contacts                | 2poles + P.E.                                                            | 3poles + P.E.                                                            |
| -                                                                                      | Earth positioning                 | -                                                                        | -                                                                        |
| Black                                                                                  | Base colour                       | Black                                                                    | Black                                                                    |
| 8.5mm                                                                                  | Base height                       | 8.5mm                                                                    | 8.5mm                                                                    |
| Flat NBR gasket                                                                        | Gasket type                       | Flat NBR gasket                                                          | Flat NBR gasket                                                          |
| <b>Technical data</b>                                                                  |                                   |                                                                          |                                                                          |
| 250V AC/ 300VDC                                                                        | Rated voltage                     | 250V AC/ 300VDC                                                          | 250V AC/ 300VDC                                                          |
| N°2                                                                                    | Number of fixing holes            | N°2                                                                      | N°2                                                                      |
| ø3mm                                                                                   | Diameter of fixing holes          | ø3mm                                                                     | ø3mm                                                                     |
| Iron+Zinc plated                                                                       | Fixing screws material (x1)       | Iron+Zinc plated                                                         | Iron+Zinc plated                                                         |
| M2.5 L=8mm                                                                             | Fixing screws length (x1)         | M3 L=8mm                                                                 | M3 L=8mm                                                                 |
| 0.4 N*m                                                                                | Fixing screws torque (x1)         | 0.5 N*m                                                                  | 0.5 N*m                                                                  |
| Iron+Zinc plated                                                                       | Earth fixing screw material       | Iron+Zinc plated                                                         | Iron+Zinc plated                                                         |
| -                                                                                      | Earth fixing screws length        | -                                                                        | -                                                                        |
| -                                                                                      | Earth screw torque                | -                                                                        | -                                                                        |
| M2.5 Open                                                                              | Central nut type                  | M3 Open                                                                  | M3 Open                                                                  |
|                                                                                        |                                   |                                                                          |                                                                          |
|                                                                                        |                                   |                                                                          |                                                                          |
| <b>Packaging</b>                                                                       |                                   |                                                                          |                                                                          |
| 200pcs / box                                                                           | Qty/Box                           | 400pcs / box                                                             | 400pcs / box                                                             |
| <b>Other accessories options</b>                                                       |                                   |                                                                          |                                                                          |
|                                                                                        | to be ordered separately see page |                                                                          |                                                                          |
|                                                                                        | <b>Notes:</b>                     | Base in Grey colour: P/N BP2G02000                                       | Base in Grey colour: P/N BP2G03000                                       |

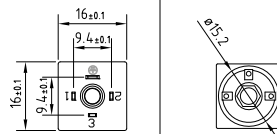
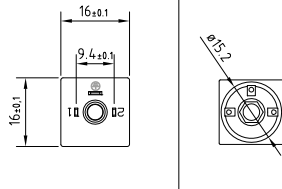
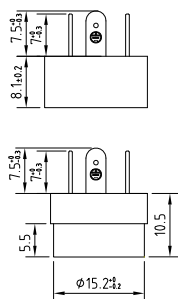


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|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <br><br>                                                                               | <br><br>                                                                               | <br><br>                                                                                                                                  | <br><br>                                                                                                                                  |
| Square base for DIN valve connectors                                                   | Square base for DIN valve connectors                                                   | Circular base for DIN valve connectors                                                                                                    | Circular base for DIN valve connectors                                                                                                    |
| Industrial                                                                             | Industrial                                                                             | Industrial                                                                                                                                | Industrial                                                                                                                                |
| C                                                                                      | C                                                                                      | C                                                                                                                                         | C                                                                                                                                         |
| <b>BP2N02000-UL</b>                                                                    | <b>BP2N03000-UL</b>                                                                    | <b>BP2RN02000</b>                                                                                                                         | <b>BP2RN03000</b>                                                                                                                         |
| Square base connector BP2 series, UL approved, complete with gasket and fixing screws. | Square base connector BP2 series, UL approved, complete with gasket and fixing screws. | Circular base connector BP2R series with plastic fixing nut M27X1.5. Base without fixing screws                                           | Circular base connector BP2R series with plastic fixing nut M27X1.5. Base without fixing screws                                           |
| 9,4mm                                                                                  | 9,4mm                                                                                  | 9,4mm                                                                                                                                     | 9,4mm                                                                                                                                     |
| 2poles + P.E.                                                                          | 3poles + P.E.                                                                          | 2poles + P.E.                                                                                                                             | 3poles + P.E.                                                                                                                             |
| -                                                                                      | -                                                                                      | -                                                                                                                                         | -                                                                                                                                         |
| Black                                                                                  | Black                                                                                  | Black                                                                                                                                     | Black                                                                                                                                     |
| 8.5mm                                                                                  | 8.5mm                                                                                  | 10.5mm (with plastic fixing nut)                                                                                                          | 10.5mm (with plastic fixing nut)                                                                                                          |
| Flat NBR gasket                                                                        | Flat NBR gasket                                                                        | -                                                                                                                                         | -                                                                                                                                         |
| 250V AC/ 300VDC                                                                        | 250V AC/ 300VDC                                                                        | 250V AC/ 300VDC                                                                                                                           | 250V AC/ 300VDC                                                                                                                           |
| N°2                                                                                    | N°2                                                                                    | -                                                                                                                                         | -                                                                                                                                         |
| ø3mm                                                                                   | ø3mm                                                                                   | -                                                                                                                                         | -                                                                                                                                         |
| Iron + Zinc plated                                                                     | Iron + Zinc plated                                                                     | -                                                                                                                                         | -                                                                                                                                         |
| M3 L=8mm                                                                               | M3 L=8mm                                                                               | -                                                                                                                                         | -                                                                                                                                         |
| 0.5 N*m                                                                                | 0.5 N*m                                                                                | -                                                                                                                                         | -                                                                                                                                         |
| Iron + Zinc plated                                                                     | Iron + Zinc plated                                                                     | -                                                                                                                                         | -                                                                                                                                         |
| -                                                                                      | -                                                                                      | -                                                                                                                                         | -                                                                                                                                         |
| -                                                                                      | -                                                                                      | -                                                                                                                                         | -                                                                                                                                         |
| M3 Open                                                                                | M3 Open                                                                                | M3 Open                                                                                                                                   | M3 Open                                                                                                                                   |
|                                                                                        |                                                                                        | -                                                                                                                                         | -                                                                                                                                         |
| 400pcs / box                                                                           | 400pcs / box                                                                           | 200pcs / box                                                                                                                              | 200pcs / box                                                                                                                              |
|                                                                                        |                                                                                        |                                                                                                                                           |                                                                                                                                           |
|                                                                                        |                                                                                        | Base available with different reductions:<br>P/N BP2RN02000-PG11<br>P/N BP2RN02000-PG13.5<br>P/N BP2RN02000-M20<br>P/N BP2RN02000-1/2NPTF | Base available with different reductions:<br>P/N BP2RN03000-PG11<br>P/N BP2RN03000-PG13.5<br>P/N BP2RN03000-M20<br>P/N BP2RN03000-1/2NPTF |





#### Technical drawing



#### Product description

|                    |                                                       |                                                       |  |
|--------------------|-------------------------------------------------------|-------------------------------------------------------|--|
| Connector type     | Square base for DIN valve connectors                  | Square base for DIN valve connectors                  |  |
| Conforms to        | Industrial                                            | Industrial                                            |  |
| Construction type  | C                                                     | C                                                     |  |
| Part number        | <b>BP3N02000</b>                                      | <b>BP3N03000</b>                                      |  |
| Description        | Square base connector BP3 series complete with gasket | Square base connector BP3 series complete with gasket |  |
| Contacts spacing   | 9.4mm                                                 | 9.4mm                                                 |  |
| Number of contacts | 2poles + P.E.                                         | 3poles + P.E.                                         |  |
| Earth positioning  | -                                                     | -                                                     |  |
| Base colour        | Black                                                 | Black                                                 |  |
| Base height        | 10.5mm                                                | 10.5mm                                                |  |
| Gasket type        | Flat NBR gasket                                       | Flat NBR gasket                                       |  |

#### Technical data

|                             |                 |                 |  |
|-----------------------------|-----------------|-----------------|--|
| Rated voltage               | 250V AC/ 300VDC | 250V AC/ 300VDC |  |
| Number of fixing holes      | -               | -               |  |
| Diameter of fixing holes    | -               | -               |  |
| Fixing screws material (x1) | -               | -               |  |
| Fixing screws length (x1)   | -               | -               |  |
| Fixing screws torque (x1)   | -               | -               |  |
| Earth fixing screw material | -               | -               |  |
| Earth fixing screws length  | -               | -               |  |
| Earth screw torque          | -               | -               |  |
| Central nut type            | M3 Open         | M3 Open         |  |

#### Packaging

|         |              |              |  |
|---------|--------------|--------------|--|
| Qty/Box | 300pcs / box | 300pcs / box |  |
|---------|--------------|--------------|--|

#### Other accessories options

to be ordered separately see page

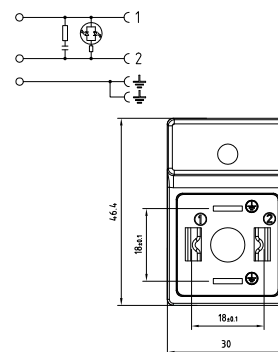
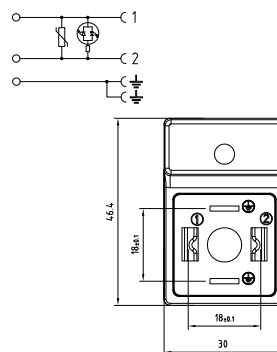
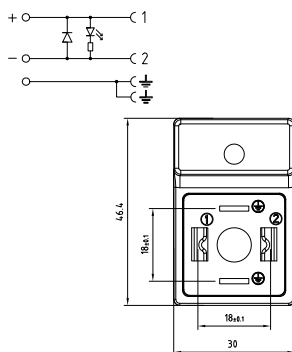
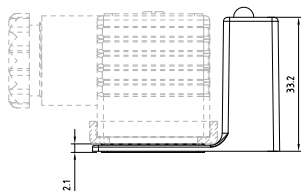
#### Notes:

Base in Grey colour: P/N BP3G02000

Base in Grey colour: P/N BP3G03000



## Technical drawing



### Product description

|                    |                                       |                  |                  |                                       |                  |                  |                                       |                  |                  |
|--------------------|---------------------------------------|------------------|------------------|---------------------------------------|------------------|------------------|---------------------------------------|------------------|------------------|
| Connector type     | Adapter base for DIN valve connectors |                  |                  | Adapter base for DIN valve connectors |                  |                  | Adapter base for DIN valve connectors |                  |                  |
| Conforms to        | EN175301-803                          |                  |                  | EN175301-803                          |                  |                  | EN175301-803                          |                  |                  |
| Construction type  | A                                     |                  |                  | A                                     |                  |                  | A                                     |                  |                  |
| Part number        | <b>AG1N02DL1</b>                      | <b>AG1N02DL2</b> | <b>AG1N02DL3</b> | <b>AG1N02VL1</b>                      | <b>AG1N02VL2</b> | <b>AG1N02VL3</b> | <b>AG1N02FL1</b>                      | <b>AG1N02FL2</b> | <b>AG1N02FL3</b> |
| Description        | Square Angled 90° adapter AG1 series  |                  |                  | Square Angled 90° adapter AG1 series  |                  |                  | Square Angled 90° adapter AG1 series  |                  |                  |
| Contacts spacing   | 18mm                                  |                  |                  | 18mm                                  |                  |                  | 18mm                                  |                  |                  |
| Number of contacts | 2poles + 2P.E.                        |                  |                  | 2poles + 2P.E.                        |                  |                  | 2poles + 2P.E.                        |                  |                  |
| Earth positioning  | H.6-12                                |                  |                  | H.6-12                                |                  |                  | H.6-12                                |                  |                  |
| Adapter colour     | Black                                 |                  |                  | Black                                 |                  |                  | Black                                 |                  |                  |
| Adapter height     | 33.2mm                                |                  |                  | 33.2mm                                |                  |                  | 33.2mm                                |                  |                  |

## Technical data

[illegible]

## Packaging

|         |           |           |           |
|---------|-----------|-----------|-----------|
| Qty/Bag | 1pc / bag | 1pc / bag | 1pc / bag |
|---------|-----------|-----------|-----------|

### Other accessories options

-

**Notes:**

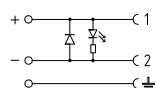
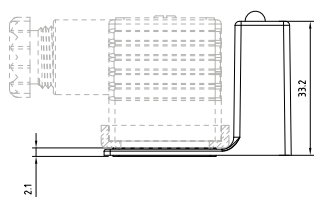
Adapter available with different led colour.  
Adapter available with different circuits.

Adapter available with different led colour.  
Adapter available with different circuits.

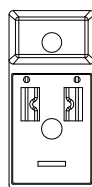
Adapter available with different led colour.  
Adapter available with different circuits.



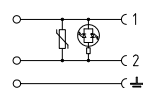
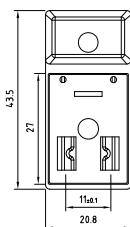
#### Technical drawing



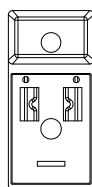
H.6



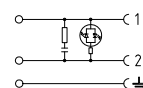
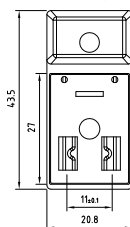
H.12



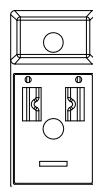
H.6



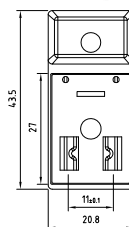
H.12



H.6



H.12



#### Product description

|                         |                                           |                   |                   |                                           |                   |                   |                                           |                   |                   |
|-------------------------|-------------------------------------------|-------------------|-------------------|-------------------------------------------|-------------------|-------------------|-------------------------------------------|-------------------|-------------------|
| Connector type          | Adapter base for DIN valve connectors     |                   |                   | Adapter base for DIN valve connectors     |                   |                   | Adapter base for DIN valve connectors     |                   |                   |
| Conforms to             | Industrial                                |                   |                   | Industrial                                |                   |                   | Industrial                                |                   |                   |
| Construction type       | B                                         |                   |                   | B                                         |                   |                   | B                                         |                   |                   |
| Part number (P.E. H.6)  | <b>AM1N02DL1A</b>                         | <b>AM1N02DL2A</b> | <b>AM1N02DL3A</b> | <b>AM1N02VL1A</b>                         | <b>AM1N02VL2A</b> | <b>AM1N02VL3A</b> | <b>AM1N02FL1A</b>                         | <b>AM1N02FL2A</b> | <b>AM1N02FL3A</b> |
| Part number (P.E. H.12) | <b>AM1N02DL1B</b>                         | <b>AM1N02DL2B</b> | <b>AM1N02DL3B</b> | <b>AM1N02VL1B</b>                         | <b>AM1N02VL2B</b> | <b>AM1N02VL3B</b> | <b>AM1N02FL1B</b>                         | <b>AM1N02FL2B</b> | <b>AM1N02FL3B</b> |
| Description             | Rectangular angled 90° adapter AM1 series |                   |                   | Rectangular angled 90° adapter AM1 series |                   |                   | Rectangular angled 90° adapter AM1 series |                   |                   |
| Contacts spacing        | 11mm                                      |                   |                   | 11mm                                      |                   |                   | 11mm                                      |                   |                   |
| Number of contacts      | 2poles + P.E.                             |                   |                   | 2poles + P.E.                             |                   |                   | 2poles + P.E.                             |                   |                   |
| Earth positioning       | H.6 or H.12                               |                   |                   | H.6 or H.12                               |                   |                   | H.6 or H.12                               |                   |                   |
| Adapter colour          | Black                                     |                   |                   | Black                                     |                   |                   | Black                                     |                   |                   |
| Adapter height          | 33.2mm                                    |                   |                   | 33.2mm                                    |                   |                   | 33.2mm                                    |                   |                   |

#### Technical data

|               |                 |         |         |                        |            |            |                          |            |            |
|---------------|-----------------|---------|---------|------------------------|------------|------------|--------------------------|------------|------------|
| Rated voltage | 24V DC          | 115V DC | 230V DC | 24V AC/DC              | 115V AC/DC | 230V AC/DC | 24V AC/DC                | 115V AC/DC | 230V AC/DC |
| Circuit type  | Led + Diode(1A) |         |         | Bipolar Led + Varistor |            |            | Bipolar Led + RC circuit |            |            |
| Led colour    | Red             |         |         | Red                    |            |            | Red                      |            |            |
|               |                 |         |         |                        |            |            |                          |            |            |
|               |                 |         |         |                        |            |            |                          |            |            |
|               |                 |         |         |                        |            |            |                          |            |            |
|               |                 |         |         |                        |            |            |                          |            |            |
|               |                 |         |         |                        |            |            |                          |            |            |
|               |                 |         |         |                        |            |            |                          |            |            |
|               |                 |         |         |                        |            |            |                          |            |            |

#### Packaging

|         |           |  |  |           |  |  |           |  |  |
|---------|-----------|--|--|-----------|--|--|-----------|--|--|
| Qty/Bag | 1pc / bag |  |  | 1pc / bag |  |  | 1pc / bag |  |  |
|---------|-----------|--|--|-----------|--|--|-----------|--|--|

#### Other accessories options

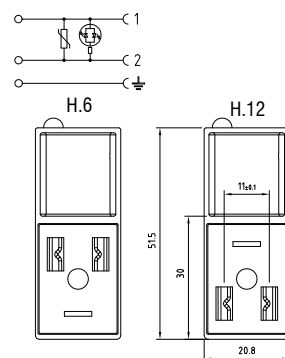
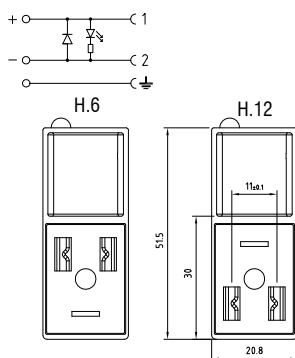
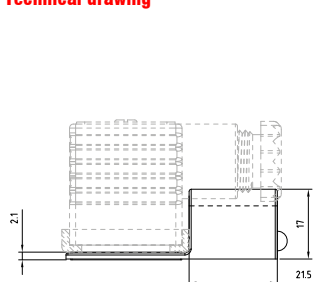
|   |  |  |  |  |  |  |  |  |  |
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| - |  |  |  |  |  |  |  |  |  |
|---|--|--|--|--|--|--|--|--|--|

#### Notes:

Adapter available with different led colour.  
Adapter available with different circuits.



#### Technical drawing



#### Product description

|                         |                                              |                       |                       |                                              |                       |                       |
|-------------------------|----------------------------------------------|-----------------------|-----------------------|----------------------------------------------|-----------------------|-----------------------|
| Connector type          | Adapter base for DIN valve connectors        |                       |                       | Adapter base for DIN valve connectors        |                       |                       |
| Conforms to             | Industrial                                   |                       |                       | Industrial                                   |                       |                       |
| Construction type       | B                                            |                       |                       | B                                            |                       |                       |
| Part number (P.E. H.6)  | <b>AM1N02DL1A-180</b>                        | <b>AM1N02DL2A-180</b> | <b>AM1N02DL3A-180</b> | <b>AM1N02VL1A-180</b>                        | <b>AM1N02VL2A-180</b> | <b>AM1N02VL3A-180</b> |
| Part number (P.E. H.12) | <b>AM1N02DL1B-180</b>                        | <b>AM1N02DL2B-180</b> | <b>AM1N02DL3B-180</b> | <b>AM1N02VL1B-180</b>                        | <b>AM1N02VL2B-180</b> | <b>AM1N02VL3B-180</b> |
| Description             | Rectangular straight 180° adapter AM1 series |                       |                       | Rectangular straight 180° adapter AM1 series |                       |                       |
| Contacts spacing        | 11mm                                         |                       |                       | 11mm                                         |                       |                       |
| Number of contacts      | 2poles + P.E.                                |                       |                       | 2poles + P.E.                                |                       |                       |
| Earth positioning       | H.6 or H.12                                  |                       |                       | H.6 or H.12                                  |                       |                       |
| Adapter colour          | Black                                        |                       |                       | Black                                        |                       |                       |
| Adapter height          | 33.2mm                                       |                       |                       | 33.2mm                                       |                       |                       |

#### Technical data

|               |                 |         |         |                        |            |            |
|---------------|-----------------|---------|---------|------------------------|------------|------------|
| Rated voltage | 24V DC          | 115V DC | 230V DC | 24V AC/DC              | 115V AC/DC | 230V AC/DC |
| Circuit type  | Led + Diode(1A) |         |         | Bipolar Led + Varistor |            |            |
| Led colour    | Red             |         |         | Red                    |            |            |
|               |                 |         |         |                        |            |            |
|               |                 |         |         |                        |            |            |
|               |                 |         |         |                        |            |            |
|               |                 |         |         |                        |            |            |
|               |                 |         |         |                        |            |            |
|               |                 |         |         |                        |            |            |

#### Packaging

|         |           |           |
|---------|-----------|-----------|
| Qty/Bag | 1pc / bag | 1pc / bag |
|---------|-----------|-----------|

#### Other accessories options

|   |
|---|
| - |
|---|

#### Notes:

Adapter available with different led colour.  
Adapter available with different circuits.



|                                              |                                            |                  |                  |                                            |                  |                  |                                            |                  |                  |
|----------------------------------------------|--------------------------------------------|------------------|------------------|--------------------------------------------|------------------|------------------|--------------------------------------------|------------------|------------------|
| <b>Technical drawing</b>                     |                                            |                  |                  |                                            |                  |                  |                                            |                  |                  |
|                                              |                                            |                  |                  |                                            |                  |                  |                                            |                  |                  |
| <b>Product description</b>                   |                                            |                  |                  |                                            |                  |                  |                                            |                  |                  |
| Connector type                               | Adapter base for DIN valve connectors      |                  |                  | Adapter base for DIN valve connectors      |                  |                  | Adapter base for DIN valve connectors      |                  |                  |
| Conforms to                                  | EN175301-803                               |                  |                  | EN175301-803                               |                  |                  | EN175301-803                               |                  |                  |
| Construction type                            | C                                          |                  |                  | C                                          |                  |                  | C                                          |                  |                  |
| Part number                                  | <b>AP1N02L01</b>                           | <b>AP1N02L02</b> | <b>AP1N02L03</b> | <b>AP1N02DL1</b>                           | <b>AP1N02DL2</b> | <b>AP1N02DL3</b> | <b>AP1N02VL1</b>                           | <b>AP1N02VL2</b> | <b>AP1N02VL3</b> |
| Description                                  | Square micro angled 90° adapter AP1 series |                  |                  | Square micro angled 90° adapter AP1 series |                  |                  | Square micro angled 90° adapter AP1 series |                  |                  |
| Contacts spacing                             | 8mm                                        |                  |                  | 8mm                                        |                  |                  | 8mm                                        |                  |                  |
| Number of contacts                           | 2poles + 2P.E.                             |                  |                  | 2poles + 2P.E.                             |                  |                  | 2poles + 2P.E.                             |                  |                  |
| Earth positioning                            | H.6-12                                     |                  |                  | H.6-12                                     |                  |                  | H.6-12                                     |                  |                  |
| Adapter colour                               | Black                                      |                  |                  | Black                                      |                  |                  | Black                                      |                  |                  |
| Adapter height                               | 26mm                                       |                  |                  | 26mm                                       |                  |                  | 26mm                                       |                  |                  |
| <b>Technical data</b>                        |                                            |                  |                  |                                            |                  |                  |                                            |                  |                  |
| Rated voltage                                | 24V AC/DC                                  | 115V AC/DC       | 230V AC/DC       | 24V DC                                     | 115V DC          | 230V DC          | 24V AC/DC                                  | 115V AC/DC       | 230V AC/DC       |
| Circuit type                                 | Bipolar Led                                |                  |                  | Led + Diode(1A)                            |                  |                  | Bipolar Led + Varistor                     |                  |                  |
| Led colour                                   | Red                                        |                  |                  | Red                                        |                  |                  | Red                                        |                  |                  |
|                                              |                                            |                  |                  |                                            |                  |                  |                                            |                  |                  |
|                                              |                                            |                  |                  |                                            |                  |                  |                                            |                  |                  |
|                                              |                                            |                  |                  |                                            |                  |                  |                                            |                  |                  |
|                                              |                                            |                  |                  |                                            |                  |                  |                                            |                  |                  |
|                                              |                                            |                  |                  |                                            |                  |                  |                                            |                  |                  |
|                                              |                                            |                  |                  |                                            |                  |                  |                                            |                  |                  |
|                                              |                                            |                  |                  |                                            |                  |                  |                                            |                  |                  |
|                                              |                                            |                  |                  |                                            |                  |                  |                                            |                  |                  |
| <b>Packaging</b>                             |                                            |                  |                  |                                            |                  |                  |                                            |                  |                  |
| Qty/Bag                                      | 1pc / bag                                  |                  |                  | 1pc / bag                                  |                  |                  | 1pc / bag                                  |                  |                  |
| <b>Other accessories options</b>             |                                            |                  |                  |                                            |                  |                  |                                            |                  |                  |
| -                                            |                                            |                  |                  |                                            |                  |                  |                                            |                  |                  |
| <b>Notes:</b>                                |                                            |                  |                  |                                            |                  |                  |                                            |                  |                  |
| Adapter available with different led colour. |                                            |                  |                  |                                            |                  |                  |                                            |                  |                  |
| Adapter available with different circuits.   |                                            |                  |                  |                                            |                  |                  |                                            |                  |                  |



|                                              |                                            |                  |                  |                                            |                  |                  |                                            |                  |                  |  |
|----------------------------------------------|--------------------------------------------|------------------|------------------|--------------------------------------------|------------------|------------------|--------------------------------------------|------------------|------------------|--|
| <b>Technical drawing</b>                     |                                            |                  |                  |                                            |                  |                  |                                            |                  |                  |  |
|                                              |                                            |                  |                  |                                            |                  |                  |                                            |                  |                  |  |
| <b>Product description</b>                   |                                            |                  |                  |                                            |                  |                  |                                            |                  |                  |  |
| Connector type                               | Adapter base for DIN valve connectors      |                  |                  | Adapter base for DIN valve connectors      |                  |                  | Adapter base for DIN valve connectors      |                  |                  |  |
| Conforms to                                  | Industrial                                 |                  |                  | Industrial                                 |                  |                  | Industrial                                 |                  |                  |  |
| Construction type                            | C                                          |                  |                  | C                                          |                  |                  | C                                          |                  |                  |  |
| Part number                                  | <b>AP2N02L01</b>                           | <b>AP2N02L02</b> | <b>AP2N02L03</b> | <b>AP2N02DL1</b>                           | <b>AP2N02DL2</b> | <b>AP2N02DL3</b> | <b>AP2N02VL1</b>                           | <b>AP2N02VL2</b> | <b>AP2N02VL3</b> |  |
| Description                                  | Square micro angled 90° adapter AP2 series |                  |                  | Square micro angled 90° adapter AP2 series |                  |                  | Square micro angled 90° adapter AP2 series |                  |                  |  |
|                                              |                                            |                  |                  |                                            |                  |                  |                                            |                  |                  |  |
| Contacts spacing                             | 9.4mm                                      |                  |                  | 9.4mm                                      |                  |                  | 9.4mm                                      |                  |                  |  |
| Number of contacts                           | 2poles + 2P.E.                             |                  |                  | 2poles + 2P.E.                             |                  |                  | 2poles + 2P.E.                             |                  |                  |  |
| Earth positioning                            | H.6-12                                     |                  |                  | H.6-12                                     |                  |                  | H.6-12                                     |                  |                  |  |
| Adapter colour                               | Black                                      |                  |                  | Black                                      |                  |                  | Black                                      |                  |                  |  |
| Adapter height                               | 26mm                                       |                  |                  | 26mm                                       |                  |                  | 26mm                                       |                  |                  |  |
|                                              |                                            |                  |                  |                                            |                  |                  |                                            |                  |                  |  |
| <b>Technical data</b>                        |                                            |                  |                  |                                            |                  |                  |                                            |                  |                  |  |
| Rated voltage                                | 24V AC/DC                                  | 115V AC/DC       | 230V AC/DC       | 24V DC                                     | 115V DC          | 230V DC          | 24V AC/DC                                  | 115V AC/DC       | 230V AC/DC       |  |
| Circuit type                                 | Bipolar Led                                |                  |                  | Led + Diode(1A)                            |                  |                  | Bipolar Led + Varistor                     |                  |                  |  |
| Led colour                                   | Red                                        |                  |                  | Red                                        |                  |                  | Red                                        |                  |                  |  |
|                                              |                                            |                  |                  |                                            |                  |                  |                                            |                  |                  |  |
|                                              |                                            |                  |                  |                                            |                  |                  |                                            |                  |                  |  |
|                                              |                                            |                  |                  |                                            |                  |                  |                                            |                  |                  |  |
|                                              |                                            |                  |                  |                                            |                  |                  |                                            |                  |                  |  |
|                                              |                                            |                  |                  |                                            |                  |                  |                                            |                  |                  |  |
|                                              |                                            |                  |                  |                                            |                  |                  |                                            |                  |                  |  |
|                                              |                                            |                  |                  |                                            |                  |                  |                                            |                  |                  |  |
|                                              |                                            |                  |                  |                                            |                  |                  |                                            |                  |                  |  |
|                                              |                                            |                  |                  |                                            |                  |                  |                                            |                  |                  |  |
| <b>Packaging</b>                             |                                            |                  |                  |                                            |                  |                  |                                            |                  |                  |  |
| Qty/Bag                                      | 1pc / bag                                  |                  |                  | 1pc / bag                                  |                  |                  | 1pc / bag                                  |                  |                  |  |
| <b>Other accessories options</b>             |                                            |                  |                  |                                            |                  |                  |                                            |                  |                  |  |
| -                                            |                                            |                  |                  |                                            |                  |                  |                                            |                  |                  |  |
| <b>Notes:</b>                                |                                            |                  |                  |                                            |                  |                  |                                            |                  |                  |  |
| Adapter available with different led colour. |                                            |                  |                  |                                            |                  |                  |                                            |                  |                  |  |
| Adapter available with different circuits.   |                                            |                  |                  |                                            |                  |                  |                                            |                  |                  |  |

● GENERAL FEATURES:

**Adapter :**  
**M8 :** M8 circular connector.  
**M12:** M12 circular connector.

**Fixing system :**  
Central fixing screw.

**Max. screw torque IEC60947-1**  
(Central fixing screw) :  
G1-M1-P2 series: Max. 0.5 N \* m.  
P1 series: Max. 0.4 N \* m.

**Type of terminations :**  
Screw(with protection plate).

**Contact material and treatment :**  
Brass + Silver plated.

**Housing material :**  
Polypropylene.

**Internal core material :**  
PA66.

**Flammability resistance :**  
UL94-V2 - Standard.

**Protection class :**  
IP 65 / 67 (assembled).

**Operating temperature :**  
-40°C +90°C with NBR gasket.  
-40°C +125°C with Silicone gasket.

G1 N 0 2 00 0 C - 12MD - ##

**SERIES**  
G1 : EN175301-803 form A (18mm).  
G1B : EN175301-803 form A (18mm) TOP EXIT.  
BG1 : EN175301-803 form A (18mm)WITH MALE CONTACTS.  
BG1B: EN175301-803 form A (18mm)WITH MALE CONTACTS  
TOP EXIT.  
M1 : INDUSTRIAL form B (11mm).  
M2 : EN175301-803 form B (10mm).  
P1 : EN175301-803 form C (8mm).  
P2 : MICRO INDUSTRIAL form C (9.4mm).

**COLOUR**  
G : GREY.  
N : BLACK (STANDARD).

**CABLE GLAND**  
0 : MOULDED CONNECTOR.

**POLES No.**  
2 : 2POLES + EARTH.  
3 : 3POLES + EARTH.

**CIRCUIT TYPE**  
SEE CIRCUITS FEATURES PAGE.  
(BG1B SERIES ONLY WITHOUT ELECTRONIC).

**VOLTAGE**  
0 : 60V.  
1 : 24V.

**EARTH POSITION**  
A : H.6. B : H.12. C : DOUBLE H.6-12. D : H.3. E : H.9. F : DOUBLE H. 3-9.

**ADAPTER WITH**  
12MD : M12 MALE 180° 3p. 12FD : M12 FEMALE 180° 3p.  
08MD3 : M8 MALE 180° 3p. 08FD3 : M8 FEMALE 180° 3p.  
08MD4 : M8 MALE 180° 4p. 08FD4 : M8 FEMALE 180° 4p.

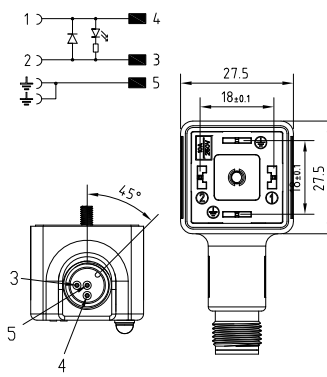
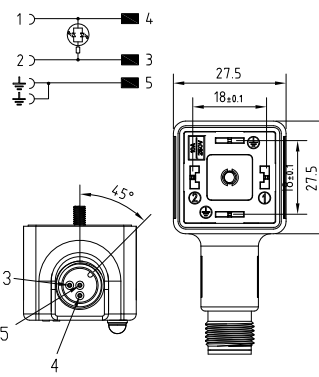
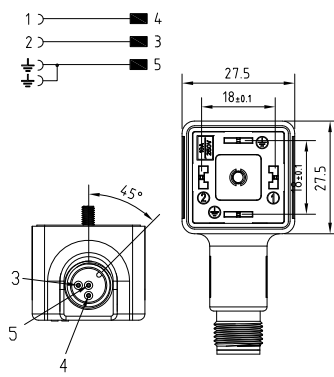
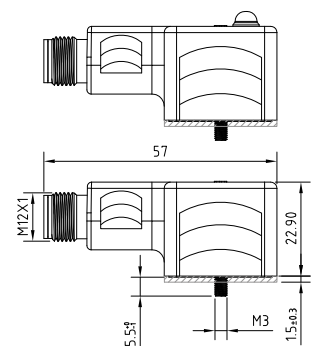
**SOME VARIABLES**  
L : PROFILED GASKET. SS : STAINLESS STEEL SCREW. Y : WITHOUT H.T.P.LOGO.







#### Technical drawing



#### Product description

|                         |                                                                          |                                                                          |                                                                          |
|-------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|
| Connector type          | Adapter DIN valve connector-M12 connector                                | Adapter DIN valve connector-M12 connector                                | Adapter DIN valve connector-M12 connector                                |
| Conforms to             | EN175301-803                                                             | EN175301-803                                                             | EN175301-803                                                             |
| Construction type       | A                                                                        | A                                                                        | A                                                                        |
| Part number             | <b>G1N02000C-12MD</b>                                                    | <b>G1N02L01C-12MD</b>                                                    | <b>G1N02DL1C-12MD</b>                                                    |
| Description             | Adapter square connector EN175301-803 (form A) - M12 circular connector. | Adapter square connector EN175301-803 (form A) - M12 circular connector. | Adapter square connector EN175301-803 (form A) - M12 circular connector. |
| Contacts spacing        | 18mm                                                                     | 18mm                                                                     | 18mm                                                                     |
| Number of contacts      | 2poles + 2P.E.                                                           | 2poles + 2P.E.                                                           | 2poles + 2P.E.                                                           |
| Earth positioning       | H.6-12                                                                   | H.6-12                                                                   | H.6-12                                                                   |
| Housing colour          | Black                                                                    | Black                                                                    | Black                                                                    |
| Housing height          | 22.9mm                                                                   | 22.9mm                                                                   | 22.9mm                                                                   |
| Gasket type             | Integrated NBR gasket                                                    | Integrated NBR gasket                                                    | Integrated NBR gasket                                                    |
| Circular connector type | M12                                                                      | M12                                                                      | M12                                                                      |

#### Technical data

|                               |                    |                    |                    |
|-------------------------------|--------------------|--------------------|--------------------|
| Rated voltage                 | 60V AC/DC          | 24V AC/DC          | 24V DC             |
| Circuit type                  | -                  | Bipolar Led        | Led + Diode(1A)    |
| Led colour                    | -                  | Red                | Red                |
| Central fixing screw          | M3 L=25mm          | M3 L=25mm          | M3 L=25mm          |
| Central fixing screw material | Iron + Zinc plated | Iron + Zinc plated | Iron + Zinc plated |
| Central screw torque          | 0.5 N*m            | 0.5 N*m            | 0.5 N*m            |
| M12 Connector type            | Straight 180°      | Straight 180°      | Straight 180°      |
| M12 contacts type             | Male 3poles        | Male 3poles        | Male 3poles        |
| Number of contacts connected  | n°3                | n°3                | n°3                |

#### Packaging

|         |           |           |           |
|---------|-----------|-----------|-----------|
| Qty/Bag | 1pc / bag | 1pc / bag | 1pc / bag |
|---------|-----------|-----------|-----------|

#### Other accessories options

See accessories section

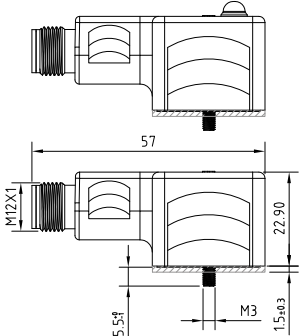
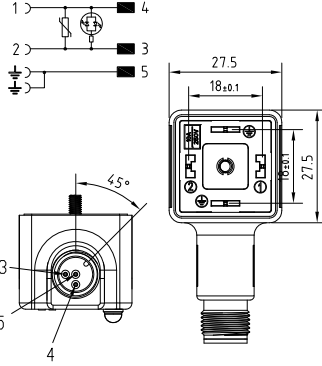
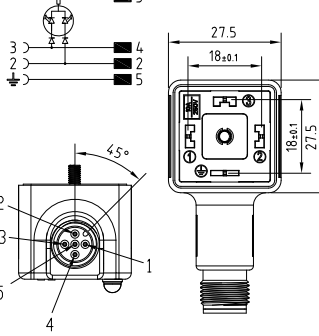
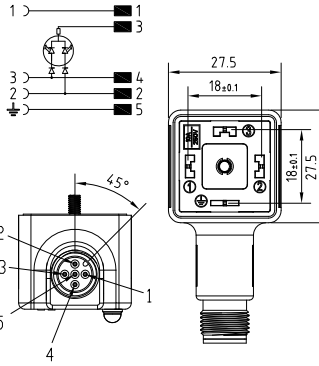
#### Notes:

Connector available with different circuits

Connector available with different led colour

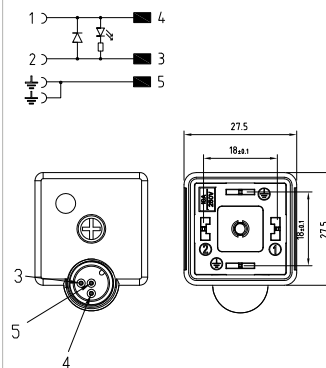
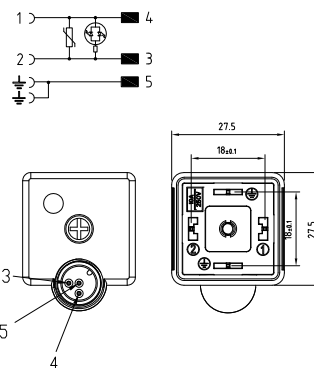
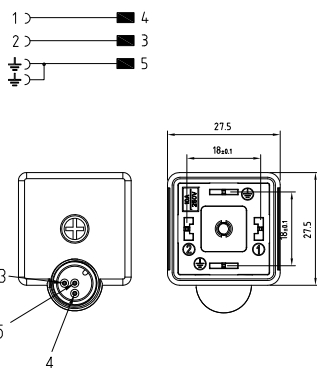
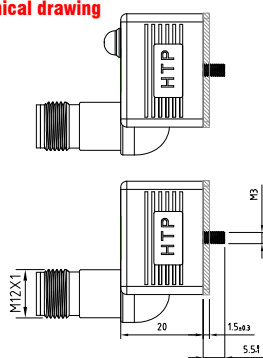
Connector available with different led colour



|                                                                                    |                                                                          |                                                                                                                                     |  |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Technical drawing</b>                                                           |                                                                          |                                                                                                                                     |  |
|   |                                                                          |                                                    |  |
|  |                                                                          |                                                   |  |
| <b>Product description</b>                                                         |                                                                          |                                                                                                                                     |  |
| Connector type                                                                     | Adapter DIN valve connector-M12 connector                                | Adapter DIN valve connector-M12 connector                                                                                           |  |
| Conforms to                                                                        | EN175301-803                                                             | EN175301-803                                                                                                                        |  |
| Construction type                                                                  | A                                                                        | A                                                                                                                                   |  |
| Part number                                                                        | <b>G1N02VL1C-12MD</b>                                                    | <b>G1N03Q01A-12MD</b>                                                                                                               |  |
| Description                                                                        | Adapter square connector EN175301-803 (form A) - M12 circular connector. | Adapter square connector EN175301-803 (form A) - M12 circular connector.                                                            |  |
| Contacts spacing                                                                   | 18mm                                                                     | 18mm                                                                                                                                |  |
| Number of contacts                                                                 | 2poles + 2P.E.                                                           | 3poles + P.E.                                                                                                                       |  |
| Earth positioning                                                                  | H.6-12                                                                   | H.6                                                                                                                                 |  |
| Housing colour                                                                     | Black                                                                    | Black                                                                                                                               |  |
| Housing height                                                                     | 22.9mm                                                                   | 22.9mm                                                                                                                              |  |
| Gasket type                                                                        | Integrated NBR gasket                                                    | Integrated NBR gasket                                                                                                               |  |
| Circular connector type                                                            | M12                                                                      | M12                                                                                                                                 |  |
| <b>Technical data</b>                                                              |                                                                          |                                                                                                                                     |  |
| Rated voltage                                                                      | 24V AC/DC                                                                | 24V DC                                                                                                                              |  |
| Circuit type                                                                       | Bipolar Led + Varistor                                                   | Bicolour Led + no.2 Diodes (1A)                                                                                                     |  |
| Led colour                                                                         | Red                                                                      | Red (pin 2) ; Green (pin3)                                                                                                          |  |
| Central fixing screw                                                               | M3 L=25mm                                                                | M3 L=25mm                                                                                                                           |  |
| Central fixing screw material                                                      | Iron+Zinc plated                                                         | Iron+Zinc plated                                                                                                                    |  |
| Central screw torque                                                               | 0.5 N*m                                                                  | 0.5 N*m                                                                                                                             |  |
| M12 Connector type                                                                 | Straight 180°                                                            | Straight 180°                                                                                                                       |  |
| M12 contacts type                                                                  | Male 3poles                                                              | Male 5poles                                                                                                                         |  |
| Number of contacts connected                                                       | n°3                                                                      | n°5                                                                                                                                 |  |
|                                                                                    |                                                                          |                                                                                                                                     |  |
|                                                                                    |                                                                          |                                                                                                                                     |  |
|                                                                                    |                                                                          |                                                                                                                                     |  |
| <b>Packaging</b>                                                                   |                                                                          |                                                                                                                                     |  |
| Qty/Bag                                                                            | 1pc / bag                                                                | 1pc / bag                                                                                                                           |  |
| <b>Other accessories options</b>                                                   |                                                                          |                                                                                                                                     |  |
| See accessories section                                                            |                                                                          |                                                                                                                                     |  |
| <b>Notes:</b>                                                                      |                                                                          |                                                                                                                                     |  |
|                                                                                    | Connector available with different led colour                            | Connector available with different led connection:<br>Q8 circuit (Green pin 2; Red pin 3)<br>Q1 circuit (Yellow pin 2; Green pin 3) |  |



#### Technical drawing



#### Product description

|                         |                                                                                   |                                                                                   |                                                                                   |
|-------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Connector type          | Adapter DIN valve connector-M12 connector                                         | Adapter DIN valve connector-M12 connector                                         | Adapter DIN valve connector-M12 connector                                         |
| Conforms to             | EN175301-803                                                                      | EN175301-803                                                                      | EN175301-803                                                                      |
| Construction type       | A                                                                                 | A                                                                                 | A                                                                                 |
| Part number             | <b>GBN02000C-12MD</b>                                                             | <b>GBN02VL1C-12MD</b>                                                             | <b>GBN02DL1C-12MD</b>                                                             |
| Description             | Adapter square connector EN175301-803 (form A) top exit - M12 circular connector. | Adapter square connector EN175301-803 (form A) top exit - M12 circular connector. | Adapter square connector EN175301-803 (form A) top exit - M12 circular connector. |
| Contacts spacing        | 18mm                                                                              | 18mm                                                                              | 18mm                                                                              |
| Number of contacts      | 2poles + 2P.E.                                                                    | 2poles + 2P.E.                                                                    | 2poles + 2P.E.                                                                    |
| Earth positioning       | H.6-12                                                                            | H.6-12                                                                            | H.6-12                                                                            |
| Housing colour          | Black                                                                             | Black                                                                             | Black                                                                             |
| Housing height          | 20mm                                                                              | 20mm                                                                              | 20mm                                                                              |
| Gasket type             | Integrated NBR gasket                                                             | Integrated NBR gasket                                                             | Integrated NBR gasket                                                             |
| Circular connector type | M12                                                                               | M12                                                                               | M12                                                                               |

#### Technical data

|                               |                  |                        |                  |
|-------------------------------|------------------|------------------------|------------------|
| Rated voltage                 | 60V AC/DC        | 24V AC/DC              | 24V DC           |
| Circuit type                  | -                | Bipolar Led + Varistor | Led + Diode(1A)  |
| Led colour                    | -                | Red                    | Red              |
| Central fixing screw          | M3 L=22.5mm      | M3 L=22.5mm            | M3 L=22.5mm      |
| Central fixing screw material | Iron+Zinc plated | Iron+Zinc plated       | Iron+Zinc plated |
| Central screw torque          | 0.5 N*m          | 0.5 N*m                | 0.5 N*m          |
| M12 Connector type            | Straight 180°    | Straight 180°          | Straight 180°    |
| M12 contacts type             | Male 3poles      | Male 3poles            | Male 3poles      |
| Number of contacts connected  | n°3              | n°3                    | n°3              |
|                               |                  |                        |                  |
|                               |                  |                        |                  |
|                               |                  |                        |                  |

#### Packaging

|         |           |           |           |
|---------|-----------|-----------|-----------|
| Qty/Bag | 1pc / bag | 1pc / bag | 1pc / bag |
|---------|-----------|-----------|-----------|

#### Other accessories options

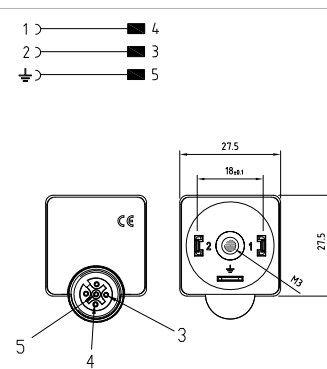
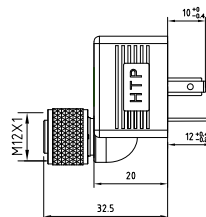
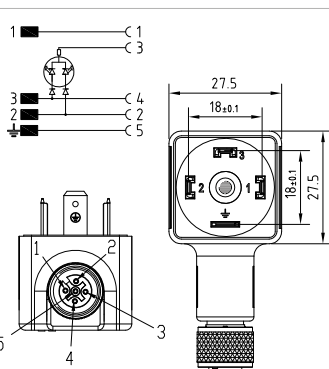
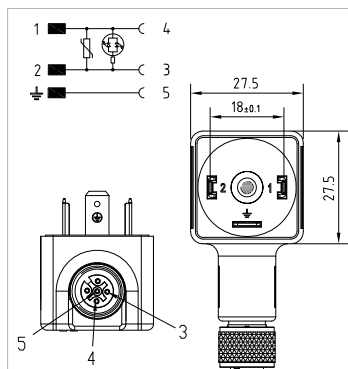
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|-------------------------|--|--|--|
| See accessories section |  |  |  |
|-------------------------|--|--|--|

#### Notes:

|                                             |                                               |                                               |
|---------------------------------------------|-----------------------------------------------|-----------------------------------------------|
| Connector available with different circuits | Connector available with different led colour | Connector available with different led colour |
|---------------------------------------------|-----------------------------------------------|-----------------------------------------------|



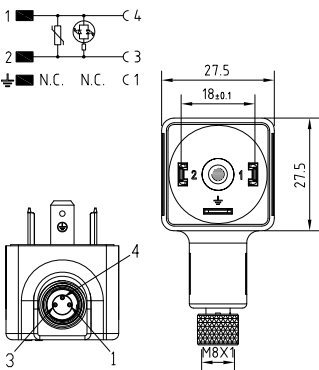
|                                  |                                                                               |  |                                                                               |                                                                               |
|----------------------------------|-------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| <b>Technical drawing</b>         |                                                                               |  |                                                                               |                                                                               |
| <b>Product description</b>       |                                                                               |  |                                                                               |                                                                               |
| Connector type                   | Adapter DIN valve connector-M12 connector                                     |  | Adapter DIN valve connector-M12 connector                                     | Adapter DIN valve connector-M12 connector                                     |
| Conforms to                      | EN175301-803                                                                  |  | EN175301-803                                                                  | EN175301-803                                                                  |
| Construction type                | A                                                                             |  | A                                                                             | A                                                                             |
| Part number                      | <b>BG1N02000A-12FD</b>                                                        |  | <b>BG1N02L01A-12FD</b>                                                        | <b>BG1N02DL1A-12FD</b>                                                        |
| Description                      | Adapter square connector EN175301-803 (form A) male - M12 circular connector. |  | Adapter square connector EN175301-803 (form A) male - M12 circular connector. | Adapter square connector EN175301-803 (form A) male - M12 circular connector. |
| Contacts spacing                 | 18mm                                                                          |  | 18mm                                                                          | 18mm                                                                          |
| Number of contacts               | 2poles + P.E.                                                                 |  | 2poles + P.E.                                                                 | 2poles + P.E.                                                                 |
| Earth positioning                | H.6                                                                           |  | H.6                                                                           | H.6                                                                           |
| Housing colour                   | Black                                                                         |  | Black                                                                         | Black                                                                         |
| Housing height                   | 22.9mm                                                                        |  | 22.9mm                                                                        | 22.9mm                                                                        |
| Gasket type                      | -                                                                             |  | -                                                                             | -                                                                             |
| Circular connector type          | M12                                                                           |  | M12                                                                           | M12                                                                           |
| <b>Technical data</b>            |                                                                               |  |                                                                               |                                                                               |
| Rated voltage                    | 60V AC/DC                                                                     |  | 24V AC/DC                                                                     | 24V DC                                                                        |
| Circuit type                     | -                                                                             |  | Bipolar Led                                                                   | Led + Diode(1A)                                                               |
| Led colour                       | -                                                                             |  | Red                                                                           | Red                                                                           |
|                                  | M3x0.5 Closed                                                                 |  | M3x0.5 Closed                                                                 | M3x0.5 Closed                                                                 |
| Central fixing screw material    | Iron+Zinc plated                                                              |  | Iron+Zinc plated                                                              | Iron+Zinc plated                                                              |
| Central screw torque             | 0.5 N*m                                                                       |  | 0.5 N*m                                                                       | 0.5 N*m                                                                       |
| M12 Connector type               | Straight 180°                                                                 |  | Straight 180°                                                                 | Straight 180°                                                                 |
| M12 contacts type                | Female 3poles                                                                 |  | Female 3poles                                                                 | Female 3poles                                                                 |
| Number of contacts connected     | n°3                                                                           |  | n°3                                                                           | n°3                                                                           |
|                                  |                                                                               |  |                                                                               |                                                                               |
|                                  |                                                                               |  |                                                                               |                                                                               |
|                                  |                                                                               |  |                                                                               |                                                                               |
| <b>Packaging</b>                 |                                                                               |  |                                                                               |                                                                               |
| Qty/Bag                          | 1pc / bag                                                                     |  | 1pc / bag                                                                     | 1pc / bag                                                                     |
| <b>Other accessories options</b> |                                                                               |  |                                                                               |                                                                               |
| See accessories section          |                                                                               |  |                                                                               |                                                                               |
| <b>Notes:</b>                    | Connector available with different circuits                                   |  | Connector available with different led colour                                 | Connector available with different led colour                                 |



| Product description                                                           |                                                                                                                                     | Product description           |                                                                                     |
|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------|
| Adapter DIN valve connector-M12 connector                                     | Adapter DIN valve connector-M12 connector                                                                                           | Connector type                | Adapter DIN valve connector-M12 connector                                           |
| EN175301-803                                                                  | EN175301-803                                                                                                                        | Conforms to                   | EN175301-803                                                                        |
| A                                                                             | A                                                                                                                                   | Construction type             | A                                                                                   |
| <b>BG1N02VL1A-12FD</b>                                                        | <b>BG1N02Q01A-12FD</b>                                                                                                              | Part number                   | <b>BGB1N02000A-12FD</b>                                                             |
| Adapter square connector EN175301-803 (form A) male - M12 circular connector. | Adapter square connector EN175301-803 (form A) male - M12 circular connector.                                                       | Description                   | Adapter square connector EN175301-803 (form A)top exit male-M12 circular connector. |
| 18mm                                                                          | 18mm                                                                                                                                | Contacts spacing              | 18mm                                                                                |
| 2poles + P.E.                                                                 | 2poles + P.E.                                                                                                                       | Number of contacts            | 2poles + P.E.                                                                       |
| H.6                                                                           | H.6                                                                                                                                 | Earth positioning             | H.6                                                                                 |
| Black                                                                         | Black                                                                                                                               | Housing colour                | Black                                                                               |
| 22.9mm                                                                        | 22.9mm                                                                                                                              | Height housing                | 20mm                                                                                |
| -                                                                             | -                                                                                                                                   | Gasket type                   | -                                                                                   |
| M12                                                                           | M12                                                                                                                                 | Circular connector type       | M12                                                                                 |
| Technical data                                                                |                                                                                                                                     | Technical data                |                                                                                     |
| 24V AC/DC                                                                     | 24V DC                                                                                                                              | Rated voltage                 | 60V AC/DC                                                                           |
| Bipolar Led + Varistor                                                        | Bicolour Led + no.2 Diodes (1A)                                                                                                     | Circuit type                  | -                                                                                   |
| Red                                                                           | Red (pin 2) ; Green (pin3)                                                                                                          | Led colour                    | -                                                                                   |
| M3x0.5 Closed                                                                 | M3x0.5 Closed                                                                                                                       | Central fixing nut            | M3x0.5 Closed                                                                       |
| Iron + Zinc plated                                                            | Iron + Zinc plated                                                                                                                  | Central fixing screw material | Iron + Zinc plated                                                                  |
| 0.5 N*m                                                                       | 0.5 N*m                                                                                                                             | Central screw torque          | 0.5 N*m                                                                             |
| Straight 180°                                                                 | Straight 180°                                                                                                                       | M12 Connector type            | Straight 180°                                                                       |
| Female 3poles                                                                 | Female 3poles                                                                                                                       | M12 contacts type             | Female 3poles                                                                       |
| n°3                                                                           | n°5                                                                                                                                 | Number of contacts connected  | n°3                                                                                 |
|                                                                               |                                                                                                                                     |                               |                                                                                     |
|                                                                               |                                                                                                                                     |                               |                                                                                     |
|                                                                               |                                                                                                                                     |                               |                                                                                     |
| Packaging                                                                     |                                                                                                                                     | Packaging                     |                                                                                     |
| 1pc / bag                                                                     | 1pc / bag                                                                                                                           | Qty/Box                       | 1pc / bag                                                                           |
| Other accessories options                                                     |                                                                                                                                     | Other accessories options     |                                                                                     |
| See accessories section                                                       |                                                                                                                                     | See accessories section       |                                                                                     |
| <b>Notes:</b><br>Connector available with different led colour                | Connector available with different led connection:<br>Q8 circuit (Green pin 2; Red pin 3)<br>Q1 circuit (Yellow pin 2; Green pin 3) | <b>Notes:</b>                 |                                                                                     |



|                                  |                                                                         |                                                                         |                                                                         |
|----------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|
| <b>Technical drawing</b>         |                                                                         |                                                                         |                                                                         |
|                                  |                                                                         |                                                                         |                                                                         |
| <b>Product description</b>       |                                                                         |                                                                         |                                                                         |
| Connector type                   | Adapter DIN valve connector - M8 connector                              | Adapter DIN valve connector - M8 connector                              | Adapter DIN valve connector - M8 connector                              |
| Conforms to                      | EN175301-803                                                            | EN175301-803                                                            | EN175301-803                                                            |
| Construction type                | A                                                                       | A                                                                       | A                                                                       |
| Part number                      | <b>BG1N02000C-08FD3</b>                                                 | <b>BG1N02L01C-08FD3</b>                                                 | <b>BG1N02DL1C-08FD3</b>                                                 |
| Description                      | Adapter square connector EN175301-803 (form A) - M8 circular connector. | Adapter square connector EN175301-803 (form A) - M8 circular connector. | Adapter square connector EN175301-803 (form A) - M8 circular connector. |
| Contacts spacing                 | 18mm                                                                    | 18mm                                                                    | 18mm                                                                    |
| Number of contacts               | 2poles + P.E.                                                           | 2poles + P.E.                                                           | 2poles + P.E.                                                           |
| Earth positioning                | H.6                                                                     | H.6                                                                     | H.6                                                                     |
| Housing colour                   | Black                                                                   | Black                                                                   | Black                                                                   |
| Housing height                   | 22.9mm                                                                  | 22.9mm                                                                  | 22.9mm                                                                  |
| Gasket type                      | -                                                                       | -                                                                       | -                                                                       |
| Circular connector type          | M8                                                                      | M8                                                                      | M8                                                                      |
| <b>Technical data</b>            |                                                                         |                                                                         |                                                                         |
| Rated voltage                    | 50V AC/60 V DC                                                          | 24V AC/DC                                                               | 24V DC                                                                  |
| Circuit type                     | -                                                                       | Bipolar Led                                                             | Led + Diode(1A)                                                         |
| Led colour                       | -                                                                       | Red                                                                     | Red                                                                     |
| Central fixing screw             | M3 L=25mm                                                               | M3 L=25mm                                                               | M3 L=25mm                                                               |
| Central fixing screw material    | Iron+Zinc plated                                                        | Iron+Zinc plated                                                        | Iron+Zinc plated                                                        |
| Central screw torque             | 0.5 N*m                                                                 | 0.5 N*m                                                                 | 0.5 N*m                                                                 |
| M8 Connector type                | Straight 180°                                                           | Straight 180°                                                           | Straight 180°                                                           |
| M8 contacts type                 | Female 3poles                                                           | Female 3poles                                                           | Female 3poles                                                           |
| Number of contacts connected     | n°2                                                                     | n°2                                                                     | n°2                                                                     |
| <b>Packaging</b>                 |                                                                         |                                                                         |                                                                         |
| Qty/Bag                          | 1pc / bag                                                               | 1pc / bag                                                               | 1pc / bag                                                               |
| <b>Other accessories options</b> |                                                                         |                                                                         |                                                                         |
| See accessories section          |                                                                         |                                                                         |                                                                         |
| <b>Notes:</b>                    |                                                                         |                                                                         |                                                                         |
|                                  | Connector available with different circuits                             | Connector available with different led colour                           | Connector available with different led colour                           |



#### Product description

Adapter DIN valve connector - M8 connector

EN175301-803

A

**BG1N02VL1C-08MD3**

Adapter square connector EN175301-803 (form A) - M8 circular connector.

18mm

2poles + P.E.

H.6

Black

22.9mm

-

M8

#### Technical data

24V AC/DC

Bipolar Led + Varistor

Red

M3 L=25mm

Iron+Zinc plated

0.5 N\*m

Straight 180°

Female 3poles

n°2

#### Packaging

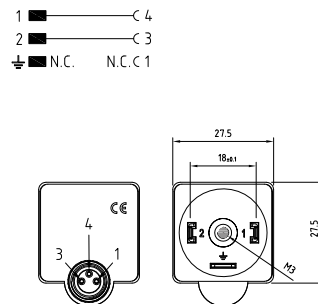
1pc / bag

#### Other accessories options

See accessories section

#### Notes:

Connector available with different led colour



#### Product description

Connector type Adapter DIN valve connector-M8 connector

Conforms to EN175301-803

Construction type A

Part number **BGB1N02000A-08FD3**

Description Adapter square connector EN175301-803 (form A)top exit male-M8 circular connector.

Contacts spacing 18mm

Number of contacts 2poles + P.E.

Earth positioning H.6

Housing colour Black

Housing height 20mm

Gasket type -

Circular connector type M8

#### Technical data

Rated voltage 50V AC/60 V DC

Circuit type -

Led colour -

Central fixing nut M3x0.5 Closed

Central fixing screw material Iron+Zinc plated

Central screw torque 0.5 N\*m

M8 Connector type Straight 180°

M8 contacts type Female 3poles

Number of contacts connected n°2

#### Packaging

Qty/Box 1pc / bag

#### Other accessories options

See accessories section

#### Notes:

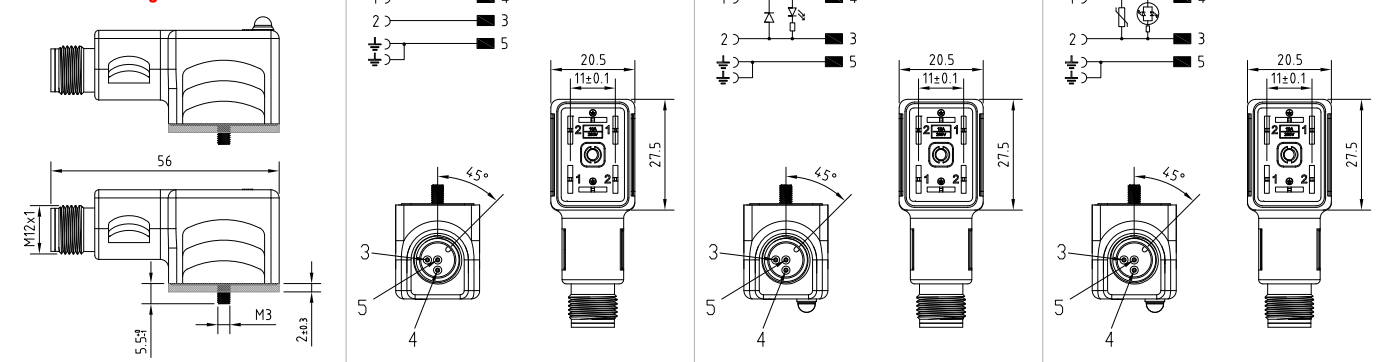


|                                  |                                                                            |                                                                            |                                                                            |
|----------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------|
| <b>Technical drawing</b>         |                                                                            |                                                                            |                                                                            |
|                                  |                                                                            |                                                                            |                                                                            |
| <b>Product description</b>       |                                                                            |                                                                            |                                                                            |
| Connector type                   | Adapter DIN valve connector-M8 connector                                   | Adapter DIN valve connector-M8 connector                                   | Adapter DIN valve connector-M8 connector                                   |
| Conforms to                      | Industrial                                                                 | Industrial                                                                 | EN175301-803                                                               |
| Construction type                | B                                                                          | B                                                                          | B                                                                          |
| Part number                      | <b>M1N02000C-08MD3</b>                                                     | <b>M1N02DL1C-08MD3</b>                                                     | <b>M1N02VL1C-08MD3</b>                                                     |
| Description                      | Adapter rectangular industrial connector (form B) - M8 circular connector. | Adapter rectangular industrial connector (form B) - M8 circular connector. | Adapter rectangular industrial connector (form B) - M8 circular connector. |
| Contacts spacing                 | 11mm                                                                       | 11mm                                                                       | 11mm                                                                       |
| Number of contacts               | 2poles + 2P.E.                                                             | 2poles + 2P.E.                                                             | 2poles + 2P.E.                                                             |
| Earth positioning                | H.6-12                                                                     | H.6-12                                                                     | H.6-12                                                                     |
| Housing colour                   | Black                                                                      | Black                                                                      | Black                                                                      |
| Housing height                   | 22.9mm                                                                     | 22.9mm                                                                     | 22.9mm                                                                     |
| Gasket type                      | Integrated NBR gasket                                                      | Integrated NBR gasket                                                      | Integrated NBR gasket                                                      |
| Circular connector type          | M8                                                                         | M8                                                                         | M8                                                                         |
| <b>Technical data</b>            |                                                                            |                                                                            |                                                                            |
| Rated voltage                    | 60V AC/DC                                                                  | 24V DC                                                                     | 24V AC/DC                                                                  |
| Circuit type                     | -                                                                          | Led + Diode(1A)                                                            | Bipolar Led + Varistor                                                     |
| Led colour                       | -                                                                          | Red                                                                        | Red                                                                        |
| Central fixing screw             | M3 L=25mm                                                                  | M3 L=25mm                                                                  | M3 L=25mm                                                                  |
| Central fixing screw material    | Iron+Zinc plated                                                           | Iron+Zinc plated                                                           | Iron+Zinc plated                                                           |
| Central screw torque             | 0.5 N*m                                                                    | 0.5 N*m                                                                    | 0.5 N*m                                                                    |
| M8 Connector type                | Straight 180°                                                              | Straight 180°                                                              | Straight 180°                                                              |
| M8 contacts type                 | Male 3poles                                                                | Male 3poles                                                                | Male 3poles                                                                |
| Number of contacts connected     | n°2                                                                        | n°2                                                                        | n°2                                                                        |
| <b>Packaging</b>                 |                                                                            |                                                                            |                                                                            |
| Qty/Bag                          | 1pc / bag                                                                  | 1pc / bag                                                                  | 1pc / bag                                                                  |
| <b>Other accessories options</b> |                                                                            |                                                                            |                                                                            |
| See accessories section          |                                                                            |                                                                            |                                                                            |
| <b>Notes:</b>                    |                                                                            |                                                                            |                                                                            |
|                                  | Connector available with different circuits                                | Connector available with different led colour                              | Connector available with different led colour                              |





#### Technical drawing



#### Product description

|                         |                                                                             |                                                                             |                                                                             |
|-------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| Connector type          | Adapter DIN valve connector-M12 connector                                   | Adapter DIN valve connector-M12 connector                                   | Adapter DIN valve connector-M12 connector                                   |
| Conforms to             | Industrial                                                                  | Industrial                                                                  | Industrial                                                                  |
| Construction type       | B                                                                           | B                                                                           | B                                                                           |
| Part number             | <b>M1N02000C-12MD</b>                                                       | <b>M1N02DL1C-12MD</b>                                                       | <b>M1N02VL1C-12MD</b>                                                       |
| Description             | Adapter rectangular industrial connector (form B) - M12 circular connector. | Adapter rectangular industrial connector (form B) - M12 circular connector. | Adapter rectangular industrial connector (form B) - M12 circular connector. |
| Contacts spacing        | 11mm                                                                        | 11mm                                                                        | 11mm                                                                        |
| Number of contacts      | 2poles + 2P.E.                                                              | 2poles + 2P.E.                                                              | 2poles + 2P.E.                                                              |
| Earth positioning       | H.6-12                                                                      | H.6-12                                                                      | H.6-12                                                                      |
| Housing colour          | Black                                                                       | Black                                                                       | Black                                                                       |
| Housing height          | 22.9mm                                                                      | 22.9mm                                                                      | 22.9mm                                                                      |
| Gasket type             | Integrated NBR gasket                                                       | Integrated NBR gasket                                                       | Integrated NBR gasket                                                       |
| Circular connector type | M12                                                                         | M12                                                                         | M12                                                                         |

#### Technical data

|                               |                    |                    |                        |
|-------------------------------|--------------------|--------------------|------------------------|
| Rated voltage                 | 60V AC/DC          | 24V DC             | 24V AC/DC              |
| Circuit type                  | -                  | Led + Diode(1A)    | Bipolar Led + Varistor |
| Led colour                    | -                  | Red                | Red                    |
| Central fixing screw          | M3 L=25mm          | M3 L=25mm          | M3 L=25mm              |
| Central fixing screw material | Iron + Zinc plated | Iron + Zinc plated | Iron + Zinc plated     |
| Central screw torque          | 0.5 N*m            | 0.5 N*m            | 0.5 N*m                |
| M12 Connector type            | Straight 180°      | Straight 180°      | Straight 180°          |
| M12 contacts type             | Male 3poles        | Male 3poles        | Male 3poles            |
| Number of contacts connected  | n°3                | n°3                | n°3                    |
|                               |                    |                    |                        |
|                               |                    |                    |                        |
|                               |                    |                    |                        |

#### Packaging

|         |           |           |           |
|---------|-----------|-----------|-----------|
| Qty/Bag | 1pc / bag | 1pc / bag | 1pc / bag |
|---------|-----------|-----------|-----------|

#### Other accessories options

See accessories section

#### Notes:

Connector available with different circuits

Connector available with different led colour

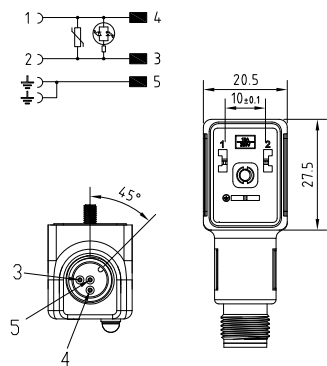
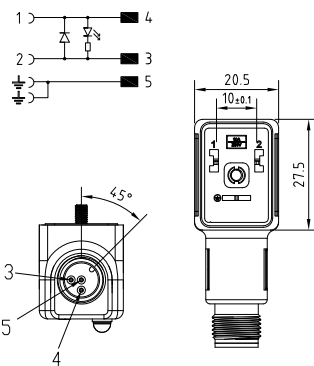
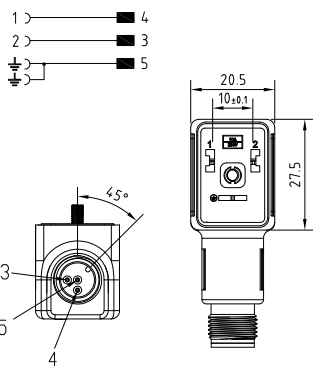
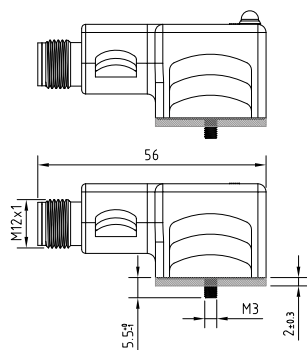
Connector available with different led colour



|                                  |                                                                              |                                                                              |                                                                              |
|----------------------------------|------------------------------------------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| <b>Technical drawing</b><br>     | <br>                                                                         | <br>                                                                         | <br>                                                                         |
| <b>Product description</b>       |                                                                              |                                                                              |                                                                              |
| Connector type                   | Adapter DIN valve connector-M8 connector                                     | Adapter DIN valve connector-M8 connector                                     | Adapter DIN valve connector-M8 connector                                     |
| Conforms to                      | EN175301-803                                                                 | EN175301-803                                                                 | EN175301-803                                                                 |
| Construction type                | B                                                                            | B                                                                            | B                                                                            |
| Part number                      | <b>M2N02000A-08MD3</b>                                                       | <b>M2N02DL1A-08MD3</b>                                                       | <b>M2N02VL1A-08MD3</b>                                                       |
| Description                      | Adapter rectangular connector EN175301-803 (form B) - M8 circular connector. | Adapter rectangular connector EN175301-803 (form B) - M8 circular connector. | Adapter rectangular connector EN175301-803 (form B) - M8 circular connector. |
| Contacts spacing                 | 10mm                                                                         | 10mm                                                                         | 10mm                                                                         |
| Number of contacts               | 2poles + P.E.                                                                | 2poles + P.E.                                                                | 2poles + P.E.                                                                |
| Earth positioning                | H.6                                                                          | H.6                                                                          | H.6                                                                          |
| Housing colour                   | Black                                                                        | Black                                                                        | Black                                                                        |
| Height housing                   | 22.9mm                                                                       | 22.9mm                                                                       | 22.9mm                                                                       |
| Gasket type                      | Integrated NBR gasket                                                        | Integrated NBR gasket                                                        | Integrated NBR gasket                                                        |
| Circular connector type          | M8                                                                           | M8                                                                           | M8                                                                           |
| <b>Technical data</b>            |                                                                              |                                                                              |                                                                              |
| Rated voltage                    | 60V AC/DC                                                                    | 24V DC                                                                       | 24V AC/DC                                                                    |
| Circuit type                     | -                                                                            | Led + Diode(1A)                                                              | Bipolar Led + Varistor                                                       |
| Led colour                       | -                                                                            | Red                                                                          | Red                                                                          |
| Central fixing screw             | M3 L=25mm                                                                    | M3 L=25mm                                                                    | M3 L=25mm                                                                    |
| Central fixing screw material    | Iron+Zinc plated                                                             | Iron+Zinc plated                                                             | Iron+Zinc plated                                                             |
| Central screw torque             | 0.5 N*m                                                                      | 0.5 N*m                                                                      | 0.5 N*m                                                                      |
| M8 Connector type                | Straight 180°                                                                | Straight 180°                                                                | Straight 180°                                                                |
| M8 contacts type                 | Male 3poles                                                                  | Male 3poles                                                                  | Male 3poles                                                                  |
| Number of contacts connected     | n°2                                                                          | n°2                                                                          | n°2                                                                          |
|                                  |                                                                              |                                                                              |                                                                              |
|                                  |                                                                              |                                                                              |                                                                              |
|                                  |                                                                              |                                                                              |                                                                              |
|                                  |                                                                              |                                                                              |                                                                              |
| <b>Packaging</b>                 |                                                                              |                                                                              |                                                                              |
| Qty/Bag                          | 1pc / bag                                                                    | 1pc / bag                                                                    | 1pc / bag                                                                    |
| <b>Other accessories options</b> |                                                                              |                                                                              |                                                                              |
| See accessories section          |                                                                              |                                                                              |                                                                              |
| <b>Notes:</b>                    |                                                                              |                                                                              |                                                                              |
|                                  | Connector available with different circuits                                  | Connector available with different led colour                                | Connector available with different led colour                                |



#### Technical drawing



#### Product description

|                         |                                                                               |                                                                               |                                                                               |
|-------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| Connector type          | Adapter DIN valve connector-M12 connector                                     | Adapter DIN valve connector-M12 connector                                     | Adapter DIN valve connector-M12 connector                                     |
| Conforms to             | EN175301-803                                                                  | EN175301-803                                                                  | EN175301-803                                                                  |
| Construction type       | B                                                                             | B                                                                             | B                                                                             |
| Part number             | <b>M2N02000A-12MD3</b>                                                        | <b>M2N02DL1A-12MD</b>                                                         | <b>M2N02VL1A-12MD</b>                                                         |
| Description             | Adapter rectangular connector EN175301-803 (form B) - M12 circular connector. | Adapter rectangular connector EN175301-803 (form B) - M12 circular connector. | Adapter rectangular connector EN175301-803 (form B) - M12 circular connector. |
| Contacts spacing        | 10mm                                                                          | 10mm                                                                          | 10mm                                                                          |
| Number of contacts      | 2poles + P.E.                                                                 | 2poles + P.E.                                                                 | 2poles + P.E.                                                                 |
| Earth positioning       | H.6                                                                           | H.6                                                                           | H.6                                                                           |
| Housing colour          | Black                                                                         | Black                                                                         | Black                                                                         |
| Housing height          | 22.9mm                                                                        | 22.9mm                                                                        | 22.9mm                                                                        |
| Gasket type             | Integrated NBR gasket                                                         | Integrated NBR gasket                                                         | Integrated NBR gasket                                                         |
| Circular connector type | M12                                                                           | M12                                                                           | M12                                                                           |

#### Technical data

|                               |                  |                  |                        |
|-------------------------------|------------------|------------------|------------------------|
| Rated voltage                 | 60V AC/DC        | 24V DC           | 24V AC/DC              |
| Circuit type                  | -                | Led + Diode(1A)  | Bipolar Led + Varistor |
| Led colour                    | -                | Red              | Red                    |
| Central fixing screw          | M3 L=25mm        | M3 L=25mm        | M3 L=25mm              |
| Central fixing screw material | Iron+Zinc plated | Iron+Zinc plated | Iron+Zinc plated       |
| Central screw torque          | 0.5 N*m          | 0.5 N*m          | 0.5 N*m                |
| M12 Connector type            | Straight 180°    | Straight 180°    | Straight 180°          |
| M12 contacts type             | Male 3poles      | Male 3poles      | Male 3poles            |
| Number of contacts connected  | n°3              | n°3              | n°3                    |
|                               |                  |                  |                        |
|                               |                  |                  |                        |

#### Packaging

|         |           |           |           |
|---------|-----------|-----------|-----------|
| Qty/Bag | 1pc / bag | 1pc / bag | 1pc / bag |
|---------|-----------|-----------|-----------|

#### Other accessories options

See accessories section

#### Notes:

Connector available with different circuits

Connector available with different led colour

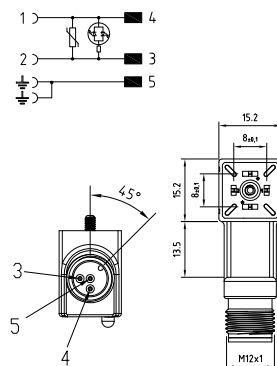
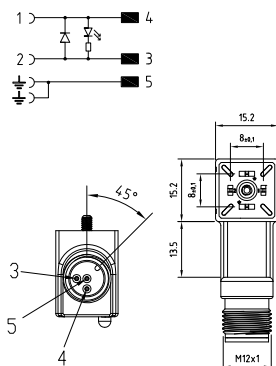
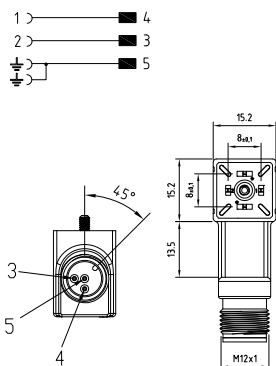
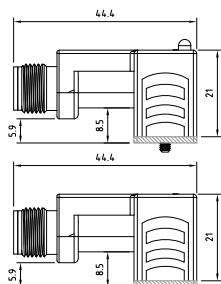
Connector available with different led colour



|                                  |                                                                         |                                                                         |                                                                         |                                                                         |
|----------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|
| <b>Technical drawing</b>         |                                                                         |                                                                         |                                                                         |                                                                         |
| <b>Product description</b>       |                                                                         |                                                                         |                                                                         |                                                                         |
| Connector type                   | Adapter DIN valve connector-M8 connector                                | Adapter DIN valve connector-M8 connector                                | Adapter DIN valve connector-M8 connector                                | Adapter DIN valve connector-M8 connector                                |
| Conforms to                      | EN175301-803                                                            | EN175301-803                                                            | EN175301-803                                                            | EN175301-803                                                            |
| Construction type                | C                                                                       | C                                                                       | C                                                                       | C                                                                       |
| Part number                      | <b>P1N02000C-08MD3</b>                                                  | <b>P1N02DL1C-08MD3</b>                                                  | <b>P1N02VL1C-08MD3</b>                                                  |                                                                         |
| Description                      | Adapter square connector EN175301-803 (form C) - M8 circular connector. | Adapter square connector EN175301-803 (form C) - M8 circular connector. | Adapter square connector EN175301-803 (form C) - M8 circular connector. | Adapter square connector EN175301-803 (form C) - M8 circular connector. |
| Contacts spacing                 | 8mm                                                                     | 8mm                                                                     | 8mm                                                                     | 8mm                                                                     |
| Number of contacts               | 2poles + 2P.E.                                                          | 2poles + 2P.E.                                                          | 2poles + 2P.E.                                                          | 2poles + 2P.E.                                                          |
| Earth positioning                | H.6-12                                                                  | H.6-12                                                                  | H.6-12                                                                  | H.6-12                                                                  |
| Housing colour                   | Black                                                                   | Black                                                                   | Black                                                                   | Black                                                                   |
| Housing height                   | 21mm                                                                    | 21mm                                                                    | 21mm                                                                    | 21mm                                                                    |
| Gasket type                      | Integrated NBR gasket                                                   | Integrated NBR gasket                                                   | Integrated NBR gasket                                                   | Integrated NBR gasket                                                   |
| Circular connector type          | M8                                                                      | M8                                                                      | M8                                                                      | M8                                                                      |
| <b>Technical data</b>            |                                                                         |                                                                         |                                                                         |                                                                         |
| Rated voltage                    | 60V AC/DC                                                               | 24V DC                                                                  | 24V AC/DC                                                               | 24V AC/DC                                                               |
| Circuit type                     | -                                                                       | Led + Diode(1A)                                                         | Bipolar Led + Varistor                                                  | Bipolar Led + Varistor                                                  |
| Led colour                       | -                                                                       | Red                                                                     | Red                                                                     | Red                                                                     |
| Central fixing screw             | M2.5 L=21.5mm                                                           | M2.5 L=21.5mm                                                           | M2.5 L=21.5mm                                                           | M2.5 L=21.5mm                                                           |
| Central fixing screw material    | Iron+Zinc plated                                                        | Iron+Zinc plated                                                        | Iron+Zinc plated                                                        | Iron+Zinc plated                                                        |
| Central screw torque             | 0.5 N*m                                                                 | 0.5 N*m                                                                 | 0.5 N*m                                                                 | 0.5 N*m                                                                 |
| M8 Connector type                | Straight 180°                                                           | Straight 180°                                                           | Straight 180°                                                           | Straight 180°                                                           |
| M8 contacts type                 | Male 3poles                                                             | Male 3poles                                                             | Male 3poles                                                             | Male 3poles                                                             |
| Number of contacts connected     | n°2                                                                     | n°2                                                                     | n°2                                                                     | n°2                                                                     |
| <b>Packaging</b>                 |                                                                         |                                                                         |                                                                         |                                                                         |
| Qty/Bag                          | 1pc / bag                                                               | 1pc / bag                                                               | 1pc / bag                                                               | 1pc / bag                                                               |
| <b>Other accessories options</b> |                                                                         |                                                                         |                                                                         |                                                                         |
| See accessories section          |                                                                         |                                                                         |                                                                         |                                                                         |
| <b>Notes:</b>                    |                                                                         | Connector available with different circuits                             | Connector available with different led colour                           | Connector available with different led colour                           |



#### Technical drawing



#### Product description

|                         |                                                                          |                                                                          |                                                                          |
|-------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|
| Connector type          | Adapter DIN valve connector-M12 connector                                | Adapter DIN valve connector-M12 connector                                | Adapter DIN valve connector-M12 connector                                |
| Conforms to             | EN175301-803                                                             | EN175301-803                                                             | EN175301-803                                                             |
| Construction type       | C                                                                        | C                                                                        | C                                                                        |
| Part number             | <b>P1N02000C-12MD</b>                                                    | <b>P1N02DL1C-12MD</b>                                                    | <b>P1N02VL1C-12MD</b>                                                    |
| Description             | Adapter square connector EN175301-803 (form C) - M12 circular connector. | Adapter square connector EN175301-803 (form C) - M12 circular connector. | Adapter square connector EN175301-803 (form C) - M12 circular connector. |
| Contacts spacing        | 8mm                                                                      | 8mm                                                                      | 8mm                                                                      |
| Number of contacts      | 2poles + 2P.E.                                                           | 2poles + 2P.E.                                                           | 2poles + 2P.E.                                                           |
| Earth positioning       | H.6-12                                                                   | H.6-12                                                                   | H.6-12                                                                   |
| Housing colour          | Black                                                                    | Black                                                                    | Black                                                                    |
| Housing height          | 21mm                                                                     | 21mm                                                                     | 21mm                                                                     |
| Gasket type             | Integrated NBR gasket                                                    | Integrated NBR gasket                                                    | Integrated NBR gasket                                                    |
| Circular connector type | M12                                                                      | M12                                                                      | M12                                                                      |

#### Technical data

|                               |                  |                  |                        |
|-------------------------------|------------------|------------------|------------------------|
| Rated voltage                 | 60V AC/DC        | 24V DC           | 24V DC                 |
| Circuit type                  | -                | Led + Diode(1A)  | Bipolar Led + Varistor |
| Led colour                    | -                | Red              | Red                    |
| Central fixing screw          | M2.5 L=21.5mm    | M2.5 L=21.5mm    | M2.5 L=21.5mm          |
| Central fixing screw material | Iron+Zinc plated | Iron+Zinc plated | Iron+Zinc plated       |
| Central screw torque          | 0.5 N*m          | 0.5 N*m          | 0.5 N*m                |
| M12 Connector type            | Straight 180°    | Straight 180°    | Straight 180°          |
| M12 contacts type             | Male 3poles      | Male 3poles      | Male 3poles            |
| Number of contacts connected  | n°3              | n°3              | n°3                    |
|                               |                  |                  |                        |
|                               |                  |                  |                        |
|                               |                  |                  |                        |

#### Packaging

|         |           |           |           |
|---------|-----------|-----------|-----------|
| Qty/Bag | 1pc / bag | 1pc / bag | 1pc / bag |
|---------|-----------|-----------|-----------|

#### Other accessories options

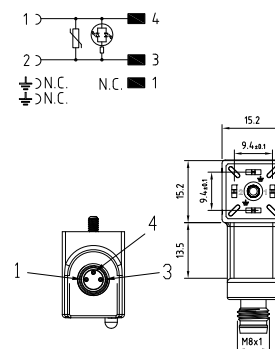
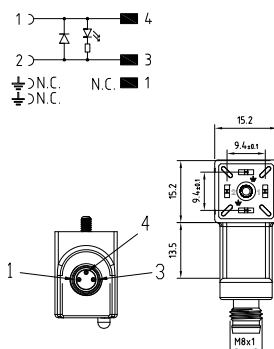
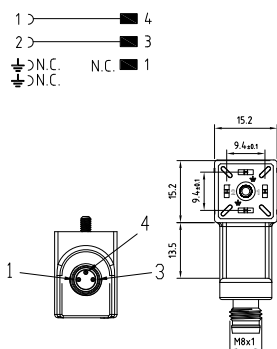
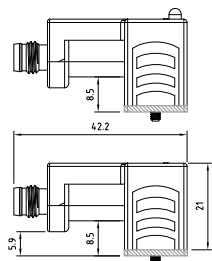
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|-------------------------|--|--|--|
| See accessories section |  |  |  |
|-------------------------|--|--|--|

#### Notes:

|                                             |                                               |                                               |
|---------------------------------------------|-----------------------------------------------|-----------------------------------------------|
| Connector available with different circuits | Connector available with different led colour | Connector available with different led colour |
|---------------------------------------------|-----------------------------------------------|-----------------------------------------------|



## Technical drawing



### Product description

|                         |                                                                             |                                                                             |                                                                             |
|-------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| Connector type          | Adapter DIN valve connector-M8 connector                                    | Adapter DIN valve connector-M8 connector                                    | Adapter DIN valve connector-M8 connector                                    |
| Conforms to             | Industrial                                                                  | Industrial                                                                  | Industrial                                                                  |
| Construction type       | C                                                                           | C                                                                           | C                                                                           |
| Part number             | <b>P2N02000C-08MD3</b>                                                      | <b>P2N02DL1C-08MD3</b>                                                      | <b>P2N02VL1C-08MD3</b>                                                      |
| Description             | Adapter square industrial micro connector (form C) - M8 circular connector. | Adapter square industrial micro connector (form C) - M8 circular connector. | Adapter square industrial micro connector (form C) - M8 circular connector. |
| Contacts spacing        | 9.4mm                                                                       | 9.4mm                                                                       | 9.4mm                                                                       |
| Number of contacts      | 2poles + 2P.E.                                                              | 2poles + 2P.E.                                                              | 2poles + 2P.E.                                                              |
| Earth positioning       | H.6-12                                                                      | H.6-12                                                                      | H.6-12                                                                      |
| Housing colour          | Black                                                                       | Black                                                                       | Black                                                                       |
| Housing height          | 21mm                                                                        | 21mm                                                                        | 21mm                                                                        |
| Gasket type             | Integrated NBR gasket                                                       | Integrated NBR gasket                                                       | Integrated NBR gasket                                                       |
| Circular connector type | M8                                                                          | M8                                                                          | M8                                                                          |

### Technical data

|                               |                  |                  |                        |
|-------------------------------|------------------|------------------|------------------------|
| Rated voltage                 | 60V AC/DC        | 24V DC           | 24V AC/DC              |
| Circuit type                  | -                | Led + Diode(1A)  | Bipolar Led + Varistor |
| Led colour                    | -                | Red              | Red                    |
| Central fixing screw          | M3 L= 21.5mm     | M3 L=21.5mm      | M3 L=21.5mm            |
| Central fixing screw material | Iron+Zinc plated | Iron+Zinc plated | Iron+Zinc plated       |
| Central screw torque          | 0.5 N*m          | 0.5 N*m          | 0.5 N*m                |
| M8 Connector type             | Straight 180°    | Straight 180°    | Straight 180°          |
| M8 contacts type              | Male 3poles      | Male 3poles      | Male 3poles            |
| Number of contacts connected  | n°2              | n°2              | n°2                    |
|                               |                  |                  |                        |
|                               |                  |                  |                        |

## Packaging

|         |           |           |           |
|---------|-----------|-----------|-----------|
| Qty/Bag | 1pc / bag | 1pc / bag | 1pc / bag |
|---------|-----------|-----------|-----------|

### Other accessories options

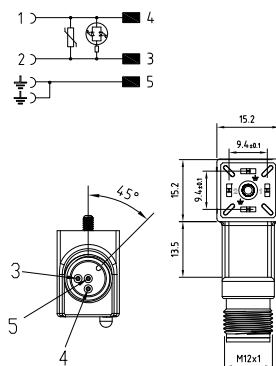
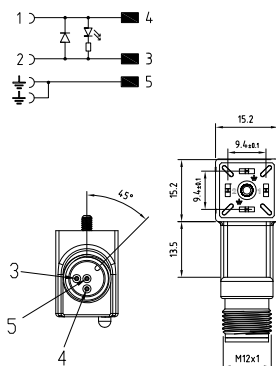
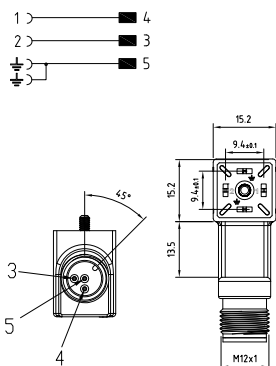
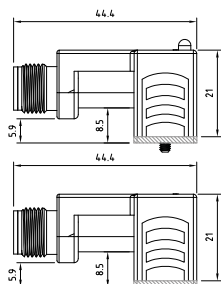
See accessories section

**Notes:**

|  |                                             |                                               |                                               |
|--|---------------------------------------------|-----------------------------------------------|-----------------------------------------------|
|  | Connector available with different circuits | Connector available with different led colour | Connector available with different led colour |
|--|---------------------------------------------|-----------------------------------------------|-----------------------------------------------|



#### Technical drawing



#### Product description

|                         |                                                                              |                                                                              |                                                                              |
|-------------------------|------------------------------------------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| Connector type          | Adapter DIN valve connector-M12 connector                                    | Adapter DIN valve connector-M12 connector                                    | Adapter DIN valve connector-M12 connector                                    |
| Conforms to             | Industrial                                                                   | Industrial                                                                   | Industrial                                                                   |
| Construction type       | C                                                                            | C                                                                            | C                                                                            |
| Part number             | <b>P2N02000C-12MD</b>                                                        | <b>P2N02DL1C-12MD</b>                                                        | <b>P2N02VL1C-12MD</b>                                                        |
| Description             | Adapter square industrial micro connector (form C) - M12 circular connector. | Adapter square industrial micro connector (form C) - M12 circular connector. | Adapter square industrial micro connector (form C) - M12 circular connector. |
| Contacts spacing        | 9.4mm                                                                        | 9.4mm                                                                        | 9.4mm                                                                        |
| Number of contacts      | 2poles + 2P.E.                                                               | 2poles + 2P.E.                                                               | 2poles + 2P.E.                                                               |
| Earth positioning       | H.6-12                                                                       | H.6-12                                                                       | H.6-12                                                                       |
| Housing colour          | Black                                                                        | Black                                                                        | Black                                                                        |
| Housing height          | 21mm                                                                         | 21mm                                                                         | 21mm                                                                         |
| Gasket type             | Integrated NBR gasket                                                        | Integrated NBR gasket                                                        | Integrated NBR gasket                                                        |
| Circular connector type | M12                                                                          | M12                                                                          | M12                                                                          |

#### Technical data

|                               |                  |                  |                        |
|-------------------------------|------------------|------------------|------------------------|
| Rated voltage                 | 60V AC/DC        | 24V DC           | 24V DC                 |
| Circuit type                  | -                | Led + Diode(1A)  | Bipolar Led + Varistor |
| Led colour                    | -                | Red              | Red                    |
| Central fixing screw          | M3 L=21.5mm      | M3 L=21.5mm      | M3 L=21.5mm            |
| Central fixing screw material | Iron+Zinc plated | Iron+Zinc plated | Iron+Zinc plated       |
| Central screw torque          | 0.5 N*m          | 0.5 N*m          | 0.5 N*m                |
| M12 Connector type            | Straight 180°    | Straight 180°    | Straight 180°          |
| M12 contacts type             | Male 3poles      | Male 3poles      | Male 3poles            |
| Number of contacts connected  | n°3              | n°3              | n°3                    |

#### Packaging

|         |           |           |           |
|---------|-----------|-----------|-----------|
| Qty/Bag | 1pc / bag | 1pc / bag | 1pc / bag |
|---------|-----------|-----------|-----------|

#### Other accessories options

|                         |  |  |  |
|-------------------------|--|--|--|
| See accessories section |  |  |  |
|-------------------------|--|--|--|

|        |                                             |                                               |                                               |
|--------|---------------------------------------------|-----------------------------------------------|-----------------------------------------------|
| Notes: | Connector available with different circuits | Connector available with different led colour | Connector available with different led colour |
|--------|---------------------------------------------|-----------------------------------------------|-----------------------------------------------|

● **SPECIFICATIONS:**

The Digital Timer is a product for cyclical repetition control.  
The load is supplied as soon as the power is switched on.  
The "ON" button control is used to select the ON-time valve.  
The "OFF" button control is used to select the OFF-time valve between the two sequential times.  
The sequence is repeated as long as the power supply remains connected.  
The "TEST" button is used to confirm the choice.  
Two leds and the display are used to show the TIMER's phase.

● **INSTALLATION INSTRUCTIONS:**

**STEP 1 :** The DIN connector has to be connected on the TIMER and please make sure that the gasket is correctly placed and the screw is correctly tightened (0,5 N/m).

**STEP 2 :** Switch ON the power.  
Note: the voltage must comply with the voltage mentioned on the coil.

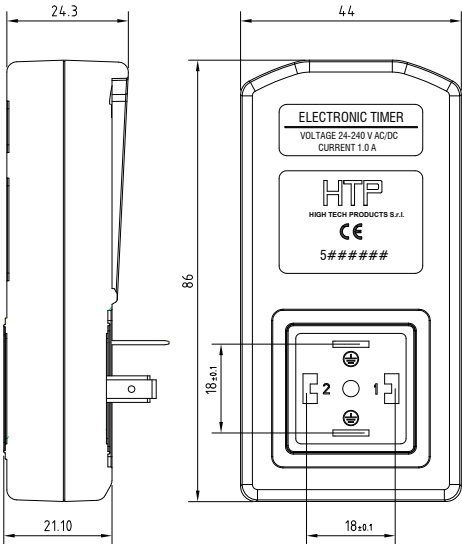
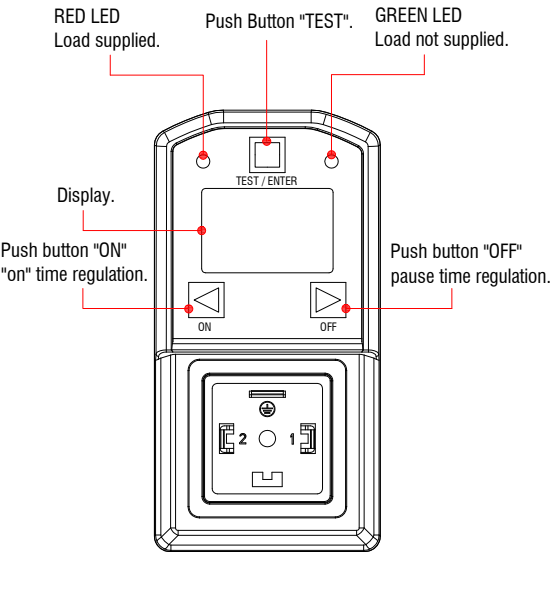
**STEP 3 :** When the unit is installed correctly and operative, you can change the pre-set values to whatever ranging from 0.5 sec. to 99 sec. for the ON time.  
To change ON time simply press the "ON" button for 3 sec. and "sec" will start flashing on right side of the display.  
The previously set ON time will appear on the display and the "on" led will be on.  
You can now press the "on" button to increase the time or the "off" button to decrease the time.

**STEP 4 :** Press the "Test / Enter" button to confirm your choice.

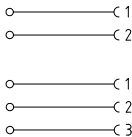
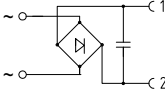
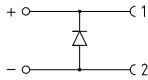
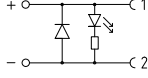
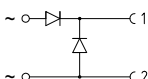
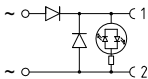
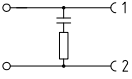
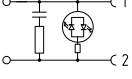
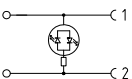
**STEP 5 :** You can change the pre-set values to whatever ranging from 0.5 min to 99 min. for the OFF time.  
To change the OFF time simply press the 'off' button for 3 sec. and 'min' will start flashing on the right side of the display.  
The previously set OFF time will appear on the display and the 'off' led will be on.  
You can now press the arrow 'on' button for to increase the time or the 'off' button to decrease the time.

**STEP 6 :** Press the "test/enter" button to confirm your choice.

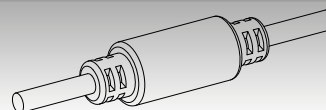
| Product description           |                                                                                  |
|-------------------------------|----------------------------------------------------------------------------------|
| Connector type                | Digital Timer                                                                    |
| Construction type             | A                                                                                |
| Part number                   | <b>TIMER-DIG</b>                                                                 |
| Description                   | Digital Timer suitable for EN175301-803 connectors (type A)                      |
| Contacts spacing              | 18mm                                                                             |
| Number of contacts            | 2poles + P.E.                                                                    |
| Earth positioning             | H.12                                                                             |
| Housing colour                | Black                                                                            |
| Timer dimensions              | 44mm x 86mm x 24.3mm                                                             |
| Gasket type                   | Flat NBR gasket                                                                  |
| Technical data                |                                                                                  |
| Type of termination           | Valve Connector EN175301-803 (type A)<br>Valve Base EN175301-803 (type A)        |
| Rated voltage                 | 24V...240V AC/DC 50/60 Hz                                                        |
| Value accuracy                | ±10%                                                                             |
| Max. Current                  | 1 A                                                                              |
| Temperature Range             | - 10°C +50°C                                                                     |
| Led colour                    | ON time : Red ; OFF time : Green                                                 |
| ON Time                       | From 0 sec. to 9 sec. ; step 0.5sec.<br>From 10 sec. to 99 sec. ; step 1 sec.    |
| OFF Time                      | From 0 min. to 9.5 min. ; step 0.5 min.<br>From 10 min. to 99 min. ; step 1 min. |
| Central fixing screw          | M3 L=55mm                                                                        |
| Central fixing screw material | Iron+Zinc plated                                                                 |
| Central screw torque          | 0.5 N*m                                                                          |
| Material                      |                                                                                  |
| Housing material              | ABS                                                                              |
| Contacts material             | Brass + Silver plated                                                            |
| Packaging                     |                                                                                  |
| Qty/Box                       | 1pc / box                                                                        |





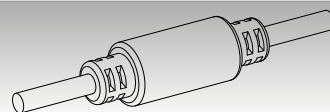
| Input type | Wiring diagram                                                                      | Rated voltage                     | Circuit code | Led colour | Circuit description                                                                                                                                                                              | Product type field attachable          | Product type with cable                          |
|------------|-------------------------------------------------------------------------------------|-----------------------------------|--------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|--------------------------------------------------|
| AC / DC    |    | 250V<br>300V                      | <b>00</b>    | -          | Circuit without electronic components.                                                                                                                                                           | G1 - G1C<br>G4<br>M1<br>M2<br>P1<br>P2 | CG1 CM2<br>CGB CP1<br>CM1 CP2<br>CM1B CP2C       |
| AC         |    | 10-230V                           | <b>CR</b>    | -          | Circuit with <b>Full-wave rectifier</b> to polarize the output current (DC) independently to input current type (AC) and <b>Condenser</b> to reduce the ripple on the output.                    | G1<br>G4<br>M1<br>M2                   | CG1 CM2*<br>CGB CP1*<br>CM1* CP2*<br>CM1B* CP2C* |
| DC         |    | 1-230V                            | <b>D0</b>    | -          | Circuit with <b>Diode</b> to give overvoltage protection when switching off supply.<br><br>Must be respected the polarity direction.                                                             | G1 - G1C<br>G4<br>M1<br>M2<br>P1<br>P2 | CG1 CM2<br>CGB CP1<br>CM1 CP2<br>CM1B CP2C       |
| DC         |    | 12V<br>24V<br>48V<br>115V<br>230V | <b>DG</b>    | Yellow     | Circuit with <b>Diode</b> to give overvoltage protection when switching off supply and <b>unipolar indicator Led</b> to confirm voltage supply.<br><br>Must be respected the polarity direction. | G1 - G1C<br>G4<br>M1<br>M2<br>P1<br>P2 | CG1 CM2<br>CGB CP1<br>CM1 CP2<br>CM1B CP2C       |
|            |                                                                                     |                                   | <b>DL</b>    | Red        |                                                                                                                                                                                                  |                                        |                                                  |
|            |                                                                                     |                                   | <b>DV</b>    | Green      |                                                                                                                                                                                                  |                                        |                                                  |
| AC         |    | 1-230V                            | <b>E1</b>    | -          | Circuit with <b>Half-wave rectifier</b> and <b>Diode</b> to give overvoltage protection when switching off supply.                                                                               | G1 - G1C<br>G4<br>M1<br>M2<br>P1<br>P2 | CG1 CM2<br>CGB CP1<br>CM1 CP2<br>CM1B CP2C       |
| AC         |  | 12V<br>24V<br>48V<br>115V<br>230V | <b>EG</b>    | Yellow     | Circuit with <b>Half-wave rectifier + Diode</b> to give overvoltage protection when switching off supply and <b>bipolar indicator Led</b> to confirm voltage supply.                             | G1 - G1C<br>G4<br>M1<br>M2             | CG1 CM2<br>CGB CP1*<br>CM1 CP2*<br>CM1B CP2C*    |
|            |                                                                                     |                                   | <b>EL</b>    | Red        |                                                                                                                                                                                                  |                                        |                                                  |
|            |                                                                                     |                                   | <b>EV</b>    | Green      |                                                                                                                                                                                                  |                                        |                                                  |
| AC / DC    |  | 10-230V                           | <b>F0</b>    | -          | <b>RC decay circuit</b> to dissipate high energies generate by highly inductive loads.                                                                                                           | G1 - G1C<br>G4                         | CG1 CM2<br>CGB CP1*<br>CM1 CP2*<br>CM1B CP2C*    |
| AC / DC    |  | 12V<br>24V<br>48V<br>115V<br>230V | <b>FG</b>    | Yellow     | <b>RC decay circuit</b> to dissipate high energies generate by highly inductive loads and <b>bipolar indicator Led</b> to confirm voltage supply.                                                | G1-G1C<br>G4                           | CG1 CM2*<br>CGB CP1*<br>CM1* CP2*<br>CM1B* CP2C* |
|            |                                                                                     |                                   | <b>FL</b>    | Red        |                                                                                                                                                                                                  |                                        |                                                  |
|            |                                                                                     |                                   | <b>FV</b>    | Green      |                                                                                                                                                                                                  |                                        |                                                  |
| AC / DC    |  | 12V<br>24V<br>48V<br>115V<br>230V | <b>L8</b>    | Yellow     | <b>Circuit with bipolar indicator Led</b> to confirm voltage supply.<br><br>Circuit without protection components.                                                                               | G1-G1C<br>G4<br>M1<br>M2<br>P1<br>P2   | CG1 CM2<br>CGB CP1<br>CM1 CP2<br>CM1B CP2C       |
|            |                                                                                     |                                   | <b>L0</b>    | Red        |                                                                                                                                                                                                  |                                        |                                                  |
|            |                                                                                     |                                   | <b>L9</b>    | Green      |                                                                                                                                                                                                  |                                        |                                                  |

\* = Product available with case overmoulded on the cable.



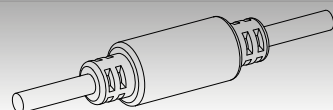
| Input type | Wiring diagram | Rated voltage                     | Circuit code     | Led colour                  | Circuit description                                                                                                                                                                                                                  | Product type field attachable | Product type with cable                          |
|------------|----------------|-----------------------------------|------------------|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|--------------------------------------------------|
| AC / DC    |                | 12V<br>24V<br>48V<br>115V<br>230V | <b>L2</b>        | PIN 1:Green<br>PIN 2:Red    | <b>Circuit with n°1 bicolour indicator Led.</b><br>Circuit without protection components.                                                                                                                                            | G1 - G1C<br>G4                | -                                                |
|            |                |                                   | <b>L2... -2L</b> | Red                         | <b>Circuit with n°2 bipolar indicator Led's.</b><br>Circuit without protection components.                                                                                                                                           |                               |                                                  |
| AC / DC    |                | 12V<br>24V<br>48V<br>115V<br>230V | <b>P0</b>        | White                       | Circuit with <b>filament lamp indicator</b> to confirm voltage supply.<br>Circuit without protection components.                                                                                                                     | G1 - G1C<br>G4<br>M1<br>M2    | -                                                |
| DC         |                | 12V<br>24V<br>48V<br>115V<br>230V | <b>Q0</b>        | PIN 2:Red<br>PIN 3:Green    | Circuit with <b>Bicolour Led</b> to show the position of the changeover contact (ex. pressure switches) and n°2 <b>Diodes</b> to give overvoltage protection when switching off supply.<br>Must be respected the polarity direction. | G1-G1C<br>G4                  | CG1                                              |
| DC         |                | 12V<br>24V<br>48V<br>115V<br>230V | <b>Q1</b>        | PIN 2:Yellow<br>PIN 3:Green | Circuit with <b>Bicolour Led</b> to show the position of the changeover contact (ex. pressure switches) and n°2 <b>Diodes</b> to give overvoltage protection when switching off supply.<br>Must be respected the polarity direction. | G1 - G1C<br>G4                | CG1                                              |
| DC         |                | 12V<br>24V<br>48V<br>115V<br>230V | <b>Q2</b>        | PIN 2:Green<br>PIN 3:Yellow | Circuit with <b>Bicolour Led</b> to show the position of the changeover contact (ex. pressure switches) and n°2 <b>Diodes</b> to give overvoltage protection when switching off supply.<br>Must be respected the polarity direction. | G1 - G1C<br>G4                | CG1                                              |
| DC         |                | 12V<br>24V<br>48V<br>115V<br>230V | <b>Q6</b>        | PIN 1:Green<br>PIN 2:Red    | Circuit with <b>Bicolour Led</b> to show the position of the changeover contact (ex. pressure switches) and n°2 <b>Diodes</b> to give overvoltage protection when switching off supply.<br>Must be respected the polarity direction. | G1<br>G4                      | CG1                                              |
| DC         |                | 12V<br>24V<br>48V<br>115V<br>230V | <b>Q8</b>        | PIN 2:Green<br>PIN 3:Red    | Circuit with <b>Bicolour Led</b> to show the position of the changeover contact (ex. pressure switches) and n°2 <b>Diodes</b> to give overvoltage protection when switching off supply.<br>Must be respected the polarity direction. | G1 - G1C<br>G4                | CG1                                              |
| AC         |                | 1-230V                            | <b>R0</b>        | -                           | Circuit with <b>Full-wave rectifier</b> to polarize the output current (DC) independently to input current type (AC).<br>Circuit without protection components.                                                                      | G1<br>G4<br>M1<br>M2          | CG1 CM2*<br>CGB CP1*<br>CM1* CP2*<br>CM1B* CP2C* |
| AC         |                | 12V<br>24V<br>48V<br>115V<br>230V | <b>RV</b>        | -                           | Circuit with <b>Full-wave rectifier</b> to polarize the output current (DC) independently to input current type (AC) and <b>Varistor</b> to give overvoltage protection when switching off supply.                                   | G1<br>G4<br>M1<br>M2          | CG1 CM2*<br>CGB CP1*<br>CM1* CP2*<br>CM1B* CP2C* |

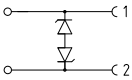
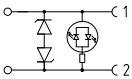
\* = Product available with case overmoulded on the cable.



| Input type | Wiring diagram | Rated voltage                     | Circuit code                        | Led colour                  | Circuit description                                                                                                                                                                                                                                               | Product type field attachable          | Product type with cable                          |
|------------|----------------|-----------------------------------|-------------------------------------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|--------------------------------------------------|
| AC         |                | 12V<br>24V<br>48V<br>115V<br>230V | <b>RE</b>                           | Red                         | Circuit with <b>Full-wave rectifier</b> to polarize the output current (DC) independently to input current type (AC) and <b>unipolar indicator Led</b> to confirm voltage supply.<br><br>Circuit without protection components.                                   | G1<br>G4<br>M1<br>M2                   | CG1 CM2*<br>CGB CP1*<br>CM1* CP2*<br>CM1B* CP2C* |
| AC         |                | 12V<br>24V<br>48V<br>115V<br>230V | <b>RG</b><br><b>RL</b>              | Yellow<br>Red               | Circuit with <b>Full-wave rectifier</b> to polarize the output current (DC) independently to input current type (AC) and <b>Varistor</b> to give overvoltage protection when switching off supply + <b>unipolar indicator Led</b> to confirm voltage supply.      | G1<br>G4<br>M1<br>M2                   | CG1 CM2*<br>CGB CP1*<br>CM1* CP2*<br>CM1B* CP2C* |
| DC         |                | 1-230V                            | <b>SO</b>                           | -                           | Circuit with <b>Half-wave rectifier</b> and <b>Diode</b> to give overvoltage protection when switching off supply.<br><br>With AC it eliminates half a cycle.                                                                                                     | G1 - G1C<br>G4<br>M1<br>M2             | CG1 CM2<br>CGB CP1<br>CM1 CP2<br>CM1B CP2C       |
| DC         |                | 12V<br>24V<br>48V<br>115V<br>230V | <b>SG</b><br><b>SL</b><br><b>SV</b> | Yellow<br>Red<br>Green      | Circuit with <b>Half-wave rectifier</b> and <b>Diode</b> to give overvoltage protection when switching off supply + <b>unipolar indicator Led</b> to confirm voltage supply.<br><br>With AC it eliminates half a cycle.                                           | G1 - G1C<br>G4<br>M1<br>M2             | CG1 CM2<br>CGB CP1*<br>CM1 CP2*<br>CM1B CP2C*    |
| AC / DC    |                | 12V<br>24V<br>48V<br>115V<br>230V | <b>TG</b><br><b>TL</b><br><b>TV</b> | Yellow<br>Red<br>Green      | Circuit with <b>Transient suppressor (Transil)</b> to give overvoltage protection when switching off supply.<br><br>Circuit protection component independent of polarity direction.                                                                               | G1 - G1C<br>G4<br>M1<br>M2             | CG1 CM2<br>CGB CP1<br>CM1 CP2<br>CM1B CP2C       |
| AC / DC    |                | 12V<br>24V<br>48V<br>115V<br>230V | <b>V0</b>                           | -                           | Circuit with <b>Varistor</b> to give overvoltage protection when switching off supply.<br><br>Circuit protection component independent of polarity direction.                                                                                                     | G1 - G1C<br>G4<br>M1<br>M2<br>P1<br>P2 | CG1 CM2<br>CGB CP1<br>CM1 CP2<br>CM1B CP2C       |
| AC / DC    |                | 12V<br>24V<br>48V<br>115V<br>230V | <b>V2</b>                           | -                           | Circuit with <b>n°2 Varistors</b> to give overvoltage protection when switching off supply.<br><br>Circuit protection component independent of polarity direction.                                                                                                | G1 - G1C<br>G4                         | CG1<br>CGB<br>CP1*<br>CP2*<br>CP2C*              |
| AC / DC    |                | 12V<br>24V<br>48V<br>115V<br>230V | <b>VG</b><br><b>VL</b><br><b>VV</b> | Yellow<br>Red<br>Green      | Circuit with <b>Varistor</b> to give overvoltage protection when switching off supply and <b>bipolar indicator Led</b> to confirm voltage supply.<br><br>Circuit protection component independent of polarity direction.                                          | G1-G1C<br>G4<br>M1<br>M2<br>P1<br>P2   | CG1 CM2<br>CGB CP1<br>CM1 CP2<br>CM1B CP2C       |
| AC / DC    |                | 12V<br>24V<br>48V<br>115V<br>230V | <b>WL</b>                           | PIN 1: Yellow<br>PIN 2: Red | Circuit with <b>Bicolour Led</b> to show the position of the changeover contact (ex. pressure switches) and <b>n°2 Varistors</b> to give overvoltage protection when switching off supply.<br><br>Circuit protection component independent of polarity direction. | G1-G1C<br>G4                           | CG1<br>CGB<br>CP1*<br>CP2*<br>CP2C*              |

\* = Product available with case overmoulded on the cable.

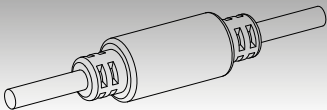


| Input type | Wiring diagram                                                                    | Rated voltage                     | Circuit code                        | Led colour             | Circuit description                                                                                                                                                                                                              | Product type field attachable | Product type with cable                                   |
|------------|-----------------------------------------------------------------------------------|-----------------------------------|-------------------------------------|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-----------------------------------------------------------|
| AC / DC    |  | 12V<br>24V<br>48V<br>115V<br>230V | <b>Z2</b>                           | -                      | Circuit with <b>n°2 Zener diodes</b> to give overvoltage protection when switching off supply.<br><br>Circuit protection component independent of polarity direction.                                                            | G1 - G1C<br>G4<br>M1<br>M2    | CG1    CM2<br>CGB    CP1*<br>CM1    CP2*<br>CM1B    CP2C* |
| AC / DC    |  | 12V<br>24V<br>48V<br>115V<br>230V | <b>ZG</b><br><b>ZL</b><br><b>ZV</b> | Yellow<br>Red<br>Green | Circuit with <b>n°2 Zener diodes</b> to give overvoltage protection when switching off supply and <b>bipolar indicator Led</b> to confirm voltage supply.<br><br>Circuit protection component independent of polarity direction. | G1 - G1C<br>G4<br>M1<br>M2    | CG1    CM2<br>CGB    CP1*<br>CM1    CP2*<br>CM1B    CP2C* |

**NOTES:**

-   The circuits with **Full-wave rectifier** component, are available also with 4diodes instead of only one component. Add on the standard code the suffix - 4D.
- All the circuits with diodes are standard delivered for rated current 1A, but on customer request are also available diodes for rated current 3A.
- All the circuits with unipolar or bipolar leds are standard delivered in RED colour.
- The minimum lenght of the cable requested between the overmoulded connector head and moulded case is 100mm.
- In case of other circuits or components are requested please contact us to verify the feasibility.

**\* = Product available with case overmoulded on the cable.**

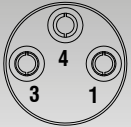
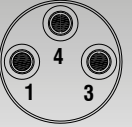
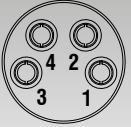
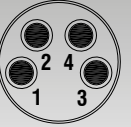
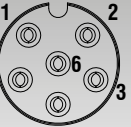
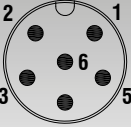
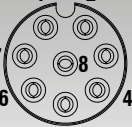
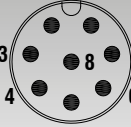


[illegible]





**M8 CIRCULAR CONNECTORS  
A-CODED**

| FEMALE                                                                            | MALE                                                                              | FEMALE                                                                            | MALE                                                                              | FEMALE                                                                                  | MALE                                                                               | FEMALE                                                                                                         | MALE                                                                                |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |        |  |                             |  |
| <b>3 POLES:</b><br>1 : BROWN ● 3 : BLUE ● 4 : BLACK ●                             |                                                                                   | <b>4 POLES:</b><br>1 : BROWN ● 2 : WHITE ○ 3 : BLUE ● 4 : BLACK ●                 |                                                                                   | <b>6 POLES:</b><br>1 : BROWN ● 2 : WHITE ○ 3 : BLUE ● 4 : BLACK ● 5 : GREY ● 6 : PINK ● |                                                                                    | <b>8 POLES:</b><br>1 : WHITE ○ 2 : BROWN ● 3 : GREEN ● 4 : YELLOW ● 5 : GREY ● 6 : PINK ● 7 : BLUE ● 8 : RED ● |                                                                                     |

## • GENERAL FEATURES OF FIELD ATTACHABLE CONNECTORS:

### Cable Gland :

Plastic housing:  $\varnothing$  CABLE 3.5 - 5mm.  
 Metal housing:  $\varnothing$  CABLE 3.5 - 5.5mm.  
**SK** :  $\varnothing$  CABLE 3.5 - 5.5mm.

### Conductor cross section :

0.14(26AWG)...0.50mm<sup>2</sup>(20AWG).

### Fixing system :

M8 coupling nut.

### Max. screw torque IEC60947-1 :

Contact screw torque 0.1 N\*m.  
 M8 coupling nut torque 0.2N\*m.  
 ATEX M8 coupling nut torque 0.4N\*m.

### Type of terminations :

Screw.  
 Solder wires.

### Contact material and treatment :

Brass + Gold flash.

### Housing material :

PA66 UL94-V2.  
 PA66 UL94-V0 Atex approved.  
 Brass+Nickel plated.

### Internal core material :

PA66 UL94-V2.  
 PA66 UL94-V0 Atex approved.

### Coupling nut material :

Brass+Nickel plated.  
 Stainless steel AISI304(upon request).  
 Stainless steel AISI316(upon request).

### Flammability resistance :

UL94-V2 - Standard  
 UL94-V0 - ATEX approved.

### Protection class :

IP65/67 (assembled).  
 IP55/57 ATEX approved.

### Operating temperature :

-40°C +90°C.  
 -25°C +85°C(metal housing).  
 -20°C +85°C ATEX approved.

### SERIES

**08** : M8 CIRCULAR CONNECTOR.

### GENDER

**F** : FEMALE. **M** : MALE.

### HOUSING TYPE

**C** : STRAIGHT PLASTIC HOUSING 180°.  
**1** : STRAIGHT METAL HOUSING 180°.

### NUMBERS OF POLES

**3** : 3POLES. **4** : 4POLES. **8** : 8POLES.

### CABLE TYPE AND LENGTH

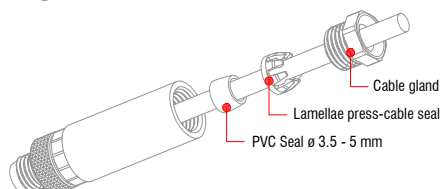
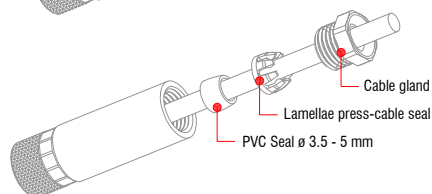
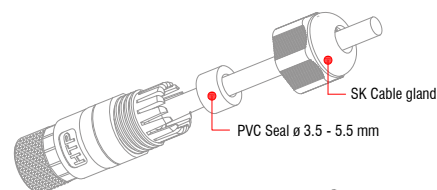
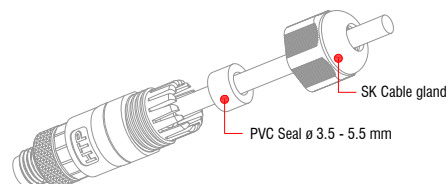
**000** : WITHOUT CABLE.

### CONTACTS TYPE

**NO DIGIT** : WITH SOLDER WIRES CONTACTS. **S** : WITH SCREW CONTACTS.

### SOME VARIABLES

**ATEX** : ATEX conform. **HN** : HEXAGONAL M8 COUPLING NUT. **INOX** : M8 COUPLING NUT IN STAINLESS STEEL(AISI304).  
**IN316** : M8 COUPLING NUT IN STAINLESS STEEL(AISI316). **SK** : Cable gland SK style. **Y** : WITHOUT H.T.P.LOGO.







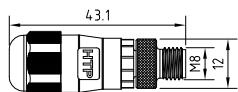
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|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|--------------------|-----------------------------------------------|-----------------------------------------------|-------------------------------------------------------------------------------|
| <b>Technical drawing</b><br><br>SK style<br><br><br>STD style<br>                                                       |                                               | <br><br>           | <br><br>                                      | <br><br>                                      | <br><br>                                                                      |
| <b>Product description</b>                                                                                              |                                               |                    |                                               |                                               |                                                                               |
| Connector type                                                                                                          | Circular connector field attachable           |                    | Circular connector field attachable           | Circular connector field attachable           | Circular connector field attachable                                           |
| Conforms to                                                                                                             | IEC 61076-2-104                               |                    | IEC 61076-2-104                               | IEC 61076-2-104                               | IEC 61076-2-104                                                               |
| Construction type                                                                                                       | M8 A -Coding                                  |                    | M8 A -Coding                                  | M8 A -Coding                                  | M8 A -Coding                                                                  |
| Part number                                                                                                             | <b>08FC3000</b>                               | <b>08FC3000-SK</b> | <b>08FC4000</b>                               | <b>08FC4000-SK</b>                            | <b>08FC3000-S</b> <b>08FC3000-S-SK</b> <b>08FC4000-S</b> <b>08FC4000-S-SK</b> |
| Housing type                                                                                                            | Straight 180°                                 |                    | Straight 180°                                 | Straight 180°                                 | Straight 180°                                                                 |
| Cable gland                                                                                                             | Exagonal SW10                                 | SK PG7 model       | Exagonal SW10                                 | SK PG7 model                                  | Exagonal SW10   SK PG7 model                                                  |
| Description                                                                                                             | Circular connector M8 series field attachable |                    | Circular connector M8 series field attachable | Circular connector M8 series field attachable | Circular connector M8 series field attachable                                 |
| Contacts type                                                                                                           | Female                                        |                    | Female                                        | Female                                        | Female                                                                        |
| Number of contacts                                                                                                      | 3poles                                        |                    | 4poles                                        | 3poles                                        | 4poles                                                                        |
| Housing colour                                                                                                          | Black                                         |                    | Black                                         | Black                                         | Black                                                                         |
| <b>Technical data</b>                                                                                                   |                                               |                    |                                               |                                               |                                                                               |
| Type of termination                                                                                                     | Contacts to solder wires                      |                    | Contacts to solder wires                      | Screw contacts                                | Screw contacts                                                                |
| Contact screw torque                                                                                                    | -                                             |                    | -                                             | 0.1 N*m                                       | 0.1 N*m                                                                       |
| Housing material                                                                                                        | PA66 UL94-V2                                  |                    | PA66 UL94-V2                                  | PA66 UL94-V2                                  | PA66 UL94-V2                                                                  |
| Contacts material                                                                                                       | Brass + Gold flash                            |                    | Brass + Gold flash                            | Brass + Gold flash                            | Brass + Gold flash                                                            |
| Coupling nut type                                                                                                       | Knurl round                                   |                    | Knurl round                                   | Knurl round                                   | Knurl round                                                                   |
| M8 coupling nut material                                                                                                | Brass + Nickel plated                         |                    | Brass + Nickel plated                         | Brass + Nickel plated                         | Brass + Nickel plated                                                         |
| M8 coupling nut torque                                                                                                  | 0.2 N*m                                       |                    | 0.2 N*m                                       | 0.2 N*m                                       | 0.2 N*m                                                                       |
| Rated voltage                                                                                                           | 50V AC/ 60V DC                                |                    | 50V AC/ 60V DC                                | 50V AC/ 60V DC                                | 50V AC/ 60V DC                                                                |
| Rated current                                                                                                           | 3A                                            |                    | 3A                                            | 3A                                            | 3A                                                                            |
| Temperature range                                                                                                       | -40°C + 90°C                                  |                    | -40°C + 90°C                                  | -40°C + 90°C                                  | -40°C + 90°C                                                                  |
| O-ring material                                                                                                         | NBR                                           |                    | NBR                                           | NBR                                           | NBR                                                                           |
| Suitable cable                                                                                                          | ø 3.5 - 5mm                                   | ø 3.5 - 5.5mm      | ø 3.5 - 5mm   ø 3.5 - 5.5mm                   | ø 3.5 - 5mm   ø 3.5 - 5.5mm                   | ø 3.5 - 5mm   ø 3.5 - 5.5mm                                                   |
| <b>Packaging</b>                                                                                                        |                                               |                    |                                               |                                               |                                                                               |
| Qty/Bag                                                                                                                 | 1 pc / bag                                    |                    | 1 pc / bag                                    | 1 pc / bag                                    | 1 pc / bag                                                                    |
| <b>Other accessories options</b>                                                                                        |                                               |                    |                                               |                                               |                                                                               |
| See accessories section                                                                                                 |                                               |                    |                                               |                                               |                                                                               |
| <b>Notes:</b><br>Connectors available with different features:<br>See the general features and codification scheme page |                                               |                    |                                               |                                               |                                                                               |



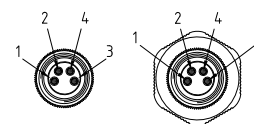
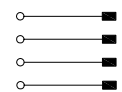
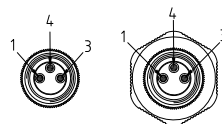
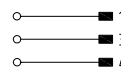
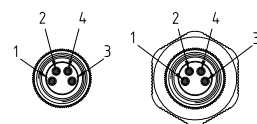
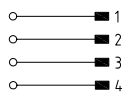
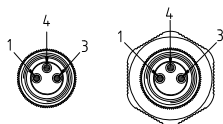
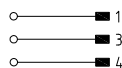
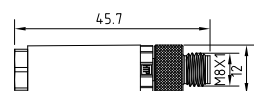


### Technical drawing

SK style



STD style



### Product description

|                    |                                               |                    |                                               |                    |                                               |                      |                                               |                      |
|--------------------|-----------------------------------------------|--------------------|-----------------------------------------------|--------------------|-----------------------------------------------|----------------------|-----------------------------------------------|----------------------|
| Connector type     | Circular connector field attachable           |                    | Circular connector field attachable           |                    | Circular connector field attachable           |                      | Circular connector field attachable           |                      |
| Conforms to        | IEC 61076-2-104                               |                    | IEC 61076-2-104                               |                    | IEC 61076-2-104                               |                      | IEC 61076-2-104                               |                      |
| Construction type  | M8 A -Coding                                  |                    | M8 A -Coding                                  |                    | M8 A -Coding                                  |                      | M8 A -Coding                                  |                      |
| Part number        | <b>08MC3000</b>                               | <b>08MC3000-SK</b> | <b>08MC4000</b>                               | <b>08MC4000-SK</b> | <b>08MC3000-S</b>                             | <b>08MC3000-S-SK</b> | <b>08MC4000-S</b>                             | <b>08MC4000-S-SK</b> |
| Housing type       | Straight 180°                                 |                    | Straight 180°                                 |                    | Straight 180°                                 |                      | Straight 180°                                 |                      |
| Cable gland        | Exagonal SW10                                 | SK PG7 model       | Exagonal SW10                                 | SK PG7 model       | Exagonal SW10                                 | SK PG7 model         | Exagonal SW10                                 | SK PG7 model         |
| Description        | Circular connector M8 series field attachable |                    | Circular connector M8 series field attachable |                    | Circular connector M8 series field attachable |                      | Circular connector M8 series field attachable |                      |
| Contacts type      | Male                                          |                    | Male                                          |                    | Male                                          |                      | Male                                          |                      |
| Number of contacts | 3poles                                        |                    | 4poles                                        |                    | 3poles                                        |                      | 4poles                                        |                      |
| Housing colour     | Black                                         |                    | Black                                         |                    | Black                                         |                      | Black                                         |                      |

### Technical data

|                          |                          |               |                          |               |                       |               |                       |               |
|--------------------------|--------------------------|---------------|--------------------------|---------------|-----------------------|---------------|-----------------------|---------------|
| Type of termination      | Contacts to solder wires |               | Contacts to solder wires |               | Screw contacts        |               | Screw contacts        |               |
| Contact screw torque     | -                        |               | -                        |               | 0.1 N*m               |               | 0.1 N*m               |               |
| Housing material         | PA66 UL94-V2             |               | PA66 UL94-V2             |               | PA66 UL94-V2          |               | PA66 UL94-V2          |               |
| Contacts material        | Brass + Gold flash       |               | Brass + Gold flash       |               | Brass + Gold flash    |               | Brass + Gold flash    |               |
| Coupling nut type        | Knurl round              |               | Knurl round              |               | Knurl round           |               | Knurl round           |               |
| M8 coupling nut material | Brass + Nickel plated    |               | Brass + Nickel plated    |               | Brass + Nickel plated |               | Brass + Nickel plated |               |
| M8 coupling nut torque   | 0.2 N*m                  |               | 0.2 N*m                  |               | 0.2 N*m               |               | 0.2 N*m               |               |
| Rated voltage            | 50V AC/ 60V DC           |               | 50V AC/ 60V DC           |               | 50V AC/ 60V DC        |               | 50V AC/ 60V DC        |               |
| Rated current            | 3A                       |               | 3A                       |               | 3A                    |               | 3A                    |               |
| Temperature range        | -40°C + 90°C             |               | -40°C + 90°C             |               | -40°C + 90°C          |               | -40°C + 90°C          |               |
| O-ring material          | NBR                      |               | NBR                      |               | NBR                   |               | NBR                   |               |
| Suitable cable           | ø 3.5 - 5mm              | ø 3.5 - 5.5mm | ø 3.5 - 5mm              | ø 3.5 - 5.5mm | ø 3.5 - 5mm           | ø 3.5 - 5.5mm | ø 3.5 - 5mm           | ø 3.5 - 5.5mm |

### Packaging

|         |            |            |            |            |
|---------|------------|------------|------------|------------|
| Qty/Bag | 1 pc / bag | 1 pc / bag | 1 pc / bag | 1 pc / bag |
|---------|------------|------------|------------|------------|

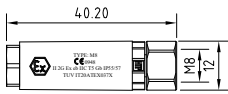
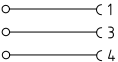
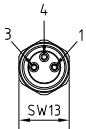
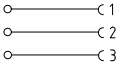
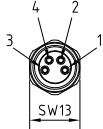
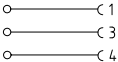
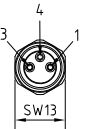
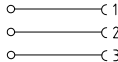
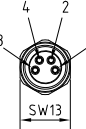
### Other accessories options

See accessories section

### Notes:

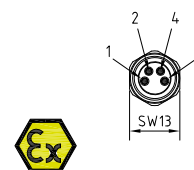
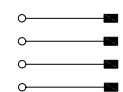
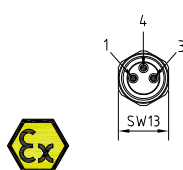
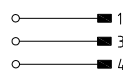
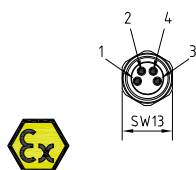
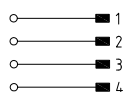
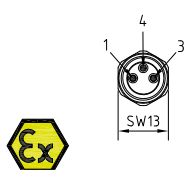
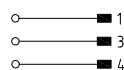
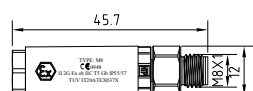
Connectors available with different features:  
See the general features and codification scheme page



|                                                                                                                         |                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                             |
|-------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Technical drawing</b>               |                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                             |
|                                                                                                                         |    |    |    |    |
| <b>Product description</b>                                                                                              |                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                             |
| Connector type                                                                                                          | Circular connector field attachable                                                                                                                                                                                                                   | Circular connector field attachable                                                                                                                                                                                                                   | Circular connector field attachable                                                                                                                                                                                                                       | Circular connector field attachable                                                                                                                                                                                                                         |
| Conforms to                                                                                                             | IEC 61076-2-104                                                                                                                                                                                                                                       | IEC 61076-2-104                                                                                                                                                                                                                                       | IEC 61076-2-104                                                                                                                                                                                                                                           | IEC 61076-2-104                                                                                                                                                                                                                                             |
| Construction type                                                                                                       | M8 A -Coding                                                                                                                                                                                                                                          | M8 A -Coding                                                                                                                                                                                                                                          | M8 A -Coding                                                                                                                                                                                                                                              | M8 A -Coding                                                                                                                                                                                                                                                |
| Part number                                                                                                             | <b>08FC3000-ATEX</b>                                                                                                                                                                                                                                  | <b>08FC4000-ATEX</b>                                                                                                                                                                                                                                  | <b>08FC3000-S-ATEX</b>                                                                                                                                                                                                                                    | <b>08FC4000-S-ATEX</b>                                                                                                                                                                                                                                      |
| Housing type                                                                                                            | Straight 180°                                                                                                                                                                                                                                         | Straight 180°                                                                                                                                                                                                                                         | Straight 180°                                                                                                                                                                                                                                             | Straight 180°                                                                                                                                                                                                                                               |
| Cable gland                                                                                                             | Hexagonal SW10                                                                                                                                                                                                                                        | Hexagonal SW10                                                                                                                                                                                                                                        | Hexagonal SW10                                                                                                                                                                                                                                            | Hexagonal SW10                                                                                                                                                                                                                                              |
| Description                                                                                                             | Circular connector M8 series field attachable,ATEX conform.                                                                                                                                                                                           | Circular connector M8 series field attachable,ATEX conform.                                                                                                                                                                                           | Circular connector M8 series field attachable,ATEX conform.                                                                                                                                                                                               | Circular connector M8 series field attachable,ATEX conform.                                                                                                                                                                                                 |
| Contacts type                                                                                                           | Female                                                                                                                                                                                                                                                | Female                                                                                                                                                                                                                                                | Female                                                                                                                                                                                                                                                    | Female                                                                                                                                                                                                                                                      |
| Number of contacts                                                                                                      | 3poles                                                                                                                                                                                                                                                | 4poles                                                                                                                                                                                                                                                | 3poles                                                                                                                                                                                                                                                    | 4poles                                                                                                                                                                                                                                                      |
| Housing colour                                                                                                          | Black                                                                                                                                                                                                                                                 | Black                                                                                                                                                                                                                                                 | Black                                                                                                                                                                                                                                                     | Black                                                                                                                                                                                                                                                       |
| <b>Technical data</b>                                                                                                   |                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                             |
| Type of termination                                                                                                     | Contacts to solder wires                                                                                                                                                                                                                              | Contacts to solder wires                                                                                                                                                                                                                              | Screw contacts                                                                                                                                                                                                                                            | Screw contacts                                                                                                                                                                                                                                              |
| Contact screw torque                                                                                                    | -                                                                                                                                                                                                                                                     | -                                                                                                                                                                                                                                                     | 0.1 N*m                                                                                                                                                                                                                                                   | 0.1 N*m                                                                                                                                                                                                                                                     |
| Housing material                                                                                                        | PA66 UL94-V0                                                                                                                                                                                                                                          | PA66 UL94-V0                                                                                                                                                                                                                                          | PA66 UL94-V0                                                                                                                                                                                                                                              | PA66 UL94-V0                                                                                                                                                                                                                                                |
| Contacts material                                                                                                       | Brass + Gold flash                                                                                                                                                                                                                                    | Brass + Gold flash                                                                                                                                                                                                                                    | Brass + Gold flash                                                                                                                                                                                                                                        | Brass + Gold flash                                                                                                                                                                                                                                          |
| Coupling nut type                                                                                                       | Hexagonal (SW13)                                                                                                                                                                                                                                      | Hexagonal (SW13)                                                                                                                                                                                                                                      | Hexagonal (SW13)                                                                                                                                                                                                                                          | Hexagonal (SW13)                                                                                                                                                                                                                                            |
| M8 coupling nut material                                                                                                | Brass + Nickel plated                                                                                                                                                                                                                                 | Brass + Nickel plated                                                                                                                                                                                                                                 | Brass + Nickel plated                                                                                                                                                                                                                                     | Brass + Nickel plated                                                                                                                                                                                                                                       |
| M8 coupling nut torque                                                                                                  | 0.4 N*m                                                                                                                                                                                                                                               | 0.4 N*m                                                                                                                                                                                                                                               | 0.4 N*m                                                                                                                                                                                                                                                   | 0.4 N*m                                                                                                                                                                                                                                                     |
| Rated voltage                                                                                                           | 30V AC/ 60V DC                                                                                                                                                                                                                                        | 30V AC/ 60V DC                                                                                                                                                                                                                                        | 30V AC/ 60V DC                                                                                                                                                                                                                                            | 30V AC/ 60V DC                                                                                                                                                                                                                                              |
| Rated current                                                                                                           | 4A                                                                                                                                                                                                                                                    | 4A                                                                                                                                                                                                                                                    | 4A                                                                                                                                                                                                                                                        | 4A                                                                                                                                                                                                                                                          |
| Temperature range                                                                                                       | -20°C +85°C                                                                                                                                                                                                                                           | -20°C +85°C                                                                                                                                                                                                                                           | -20°C +85°C                                                                                                                                                                                                                                               | -20°C +85°C                                                                                                                                                                                                                                                 |
| O-ring material                                                                                                         | NBR                                                                                                                                                                                                                                                   | NBR                                                                                                                                                                                                                                                   | NBR                                                                                                                                                                                                                                                       | NBR                                                                                                                                                                                                                                                         |
| Suitable cable                                                                                                          | ø 3.5 - 5mm                                                                                                                                                                                                                                           | ø 3.5 - 5mm                                                                                                                                                                                                                                           | ø 3.5 - 5mm                                                                                                                                                                                                                                               | ø 3.5 - 5mm                                                                                                                                                                                                                                                 |
| <b>Packaging</b>                                                                                                        |                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                             |
| Qty/Bag                                                                                                                 | 1 pc / bag                                                                                                                                                                                                                                            | 1 pc / bag                                                                                                                                                                                                                                            | 1 pc / bag                                                                                                                                                                                                                                                | 1 pc / bag                                                                                                                                                                                                                                                  |
| <b>Other accessories options</b>                                                                                        |                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                             |
| See accessories section                                                                                                 |                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                             |
| <b>Notes:</b><br>Connectors available with different features:<br>See the general features and codification scheme page |                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                             |



#### Technical drawing



#### Product description

|                    |                                                             |                                                             |                                                             |                                                             |
|--------------------|-------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|
| Connector type     | Circular connector field attachable                         | Circular connector field attachable                         | Circular connector field attachable                         | Circular connector field attachable                         |
| Conforms to        | IEC 61076-2-104                                             | IEC 61076-2-104                                             | IEC 61076-2-104                                             | IEC 61076-2-104                                             |
| Construction type  | M8 A -Coding                                                | M8 A -Coding                                                | M8 A -Coding                                                | M8 A -Coding                                                |
| Part number        | <b>08MC3000-ATEX</b>                                        | <b>08MC4000-ATEX</b>                                        | <b>08MC3000-S-ATEX</b>                                      | <b>08MC4000-S-ATEX</b>                                      |
| Housing type       | Straight 180°                                               | Straight 180°                                               | Straight 180°                                               | Straight 180°                                               |
| Cable gland        | Hexagonal SW10                                              | Hexagonal SW10                                              | Hexagonal SW10                                              | Hexagonal SW10                                              |
| Description        | Circular connector M8 series field attachable,ATEX conform. | Circular connector M8 series field attachable,ATEX conform. | Circular connector M8 series field attachable,ATEX conform. | Circular connector M8 series field attachable,ATEX conform. |
| Contacts type      | Male                                                        | Male                                                        | Male                                                        | Male                                                        |
| Number of contacts | 3poles                                                      | 4poles                                                      | 3poles                                                      | 4poles                                                      |
| Housing colour     | Black                                                       | Black                                                       | Black                                                       | Black                                                       |

#### Technical data

|                          |                          |                          |                       |                       |
|--------------------------|--------------------------|--------------------------|-----------------------|-----------------------|
| Type of termination      | Contacts to solder wires | Contacts to solder wires | Screw contacts        | Screw contacts        |
| Contact screw torque     | -                        | -                        | 0.1 N*m               | 0.1 N*m               |
| Housing material         | PA66 UL94-V0             | PA66 UL94-V0             | PA66 UL94-V0          | PA66 UL94-V0          |
| Contacts material        | Brass + Gold flash       | Brass + Gold flash       | Brass + Gold flash    | Brass + Gold flash    |
| Coupling nut type        | Hexagonal (SW13)         | Hexagonal (SW13)         | Hexagonal (SW13)      | Hexagonal (SW13)      |
| M8 coupling nut material | Brass + Nickel plated    | Brass + Nickel plated    | Brass + Nickel plated | Brass + Nickel plated |
| M8 coupling nut torque   | 0.4 N*m                  | 0.4 N*m                  | 0.4 N*m               | 0.4 N*m               |
| Rated voltage            | 30V AC/ 60V DC           | 30V AC/ 60V DC           | 30V AC/ 60V DC        | 30V AC/ 60V DC        |
| Rated current            | 4A                       | 4A                       | 4A                    | 4A                    |
| Temperature range        | -20°C + 85°C             | -20°C + 85°C             | -20°C + 85°C          | -20°C + 85°C          |
| O-ring material          | NBR                      | NBR                      | NBR                   | NBR                   |
| Suitable cable           | ø 3.5 - 5mm              | ø 3.5 - 5mm              | ø 3.5 - 5mm           | ø 3.5 - 5mm           |
|                          |                          |                          |                       |                       |
|                          |                          |                          |                       |                       |

#### Packaging

|         |            |            |            |            |
|---------|------------|------------|------------|------------|
| Qty/Bag | 1 pc / bag | 1 pc / bag | 1 pc / bag | 1 pc / bag |
|---------|------------|------------|------------|------------|

#### Other accessories options

See accessories section

#### Notes:

Connectors available with different features:  
See the general features and codification scheme page



|                                                                                                                         |                                                                                  |                                                                                  |                                                                                  |                                                                                  |
|-------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| <b>Technical drawing</b>                                                                                                |                                                                                  |                                                                                  |                                                                                  |                                                                                  |
|                                                                                                                         |                                                                                  |                                                                                  |                                                                                  |                                                                                  |
| <b>Product description</b>                                                                                              |                                                                                  |                                                                                  |                                                                                  |                                                                                  |
| Connector type                                                                                                          | Circular connector field attachable                                              | Circular connector field attachable                                              | Circular connector field attachable                                              | Circular connector field attachable                                              |
| Conforms to                                                                                                             | IEC 61076-2-104                                                                  | IEC 61076-2-104                                                                  | IEC 61076-2-104                                                                  | IEC 61076-2-104                                                                  |
| Construction type                                                                                                       | M8 A -Coding                                                                     | M8 A -Coding                                                                     | M8 A -Coding                                                                     | M8 A -Coding                                                                     |
| Part number                                                                                                             | <b>08F13000</b>                                                                  | <b>08F14000</b>                                                                  | <b>08M13000</b>                                                                  | <b>08M14000</b>                                                                  |
| Housing type                                                                                                            | Straight 180°                                                                    | Straight 180°                                                                    | Straight 180°                                                                    | Straight 180°                                                                    |
| Description                                                                                                             | Circular connector M8 series field attachable for TOTALLY SHIELDED applications. | Circular connector M8 series field attachable for TOTALLY SHIELDED applications. | Circular connector M8 series field attachable for TOTALLY SHIELDED applications. | Circular connector M8 series field attachable for TOTALLY SHIELDED applications. |
| Contacts type                                                                                                           | Female                                                                           | Female                                                                           | Male                                                                             | Male                                                                             |
| Number of contacts                                                                                                      | 3poles                                                                           | 4poles                                                                           | 3poles                                                                           | 4poles                                                                           |
| Housing colour                                                                                                          | Black                                                                            | Black                                                                            | Black                                                                            | Black                                                                            |
| <b>Technical data</b>                                                                                                   |                                                                                  |                                                                                  |                                                                                  |                                                                                  |
| Type of termination                                                                                                     | Screw contacts                                                                   | Screw contacts                                                                   | Screw contacts                                                                   | Screw contacts                                                                   |
| Contact screw torque                                                                                                    | 0.1 N*m                                                                          | 0.1 N*m                                                                          | 0.1 N*m                                                                          | 0.1 N*m                                                                          |
| Housing material                                                                                                        | Brass + Nickel plated                                                            | Brass + Nickel plated                                                            | Brass + Nickel plated                                                            | Brass + Nickel plated                                                            |
| Contacts material                                                                                                       | Brass + Gold flash                                                               | Brass + Gold flash                                                               | Brass + Gold flash                                                               | Brass + Gold flash                                                               |
| Coupling nut type                                                                                                       | Knurl round                                                                      | Knurl round                                                                      | Knurl round                                                                      | Knurl round                                                                      |
| M8 coupling nut material                                                                                                | Brass + Nickel plated                                                            | Brass + Nickel plated                                                            | Brass + Nickel plated                                                            | Brass + Nickel plated                                                            |
| M8 coupling nut torque                                                                                                  | 0.2 N*m                                                                          | 0.2 N*m                                                                          | 0.2 N*m                                                                          | 0.2 N*m                                                                          |
| Rated voltage                                                                                                           | 50V AC/ 60V DC                                                                   | 50V AC/ 60V DC                                                                   | 50V AC/ 60V DC                                                                   | 50V AC/ 60V DC                                                                   |
| Rated current                                                                                                           | 3A                                                                               | 3A                                                                               | 3A                                                                               | 3A                                                                               |
| Temperature range                                                                                                       | -25°C +85°C                                                                      | -25°C +85°C                                                                      | -25°C +85°C                                                                      | -25°C +85°C                                                                      |
| O-ring material                                                                                                         | NBR                                                                              | NBR                                                                              | NBR                                                                              | NBR                                                                              |
| Suitable cable                                                                                                          | ø 3.5 - 5.5mm                                                                    | ø 3.5 - 5.5mm                                                                    | ø 3.5 - 5.5mm                                                                    | ø 3.5 - 5.5mm                                                                    |
| <b>Packaging</b>                                                                                                        |                                                                                  |                                                                                  |                                                                                  |                                                                                  |
| Qty/Bag                                                                                                                 | 1 pc / bag                                                                       | 1 pc / bag                                                                       | 1 pc / bag                                                                       | 1 pc / bag                                                                       |
| <b>Other accessories options</b>                                                                                        |                                                                                  |                                                                                  |                                                                                  |                                                                                  |
| See accessories section                                                                                                 |                                                                                  |                                                                                  |                                                                                  |                                                                                  |
| <b>Notes:</b><br>Connectors available with different features:<br>See the general features and codification scheme page |                                                                                  |                                                                                  |                                                                                  |                                                                                  |

• GENERAL FEATURES OF MOULDED CONNECTORS:

**Conductor cross section :**  
0.14(26AWG)...0.50mm²(20AWG).

**Housing material :**  
Polyurethane.

**Operating temperature :**  
-25°C +90°C Standard.  
-25°C +120°C(UL approved).

**Fixing system :**  
M8 coupling nut.

**Internal core material :**  
PA66.

**Max. screw torque IEC60947-1**  
M8 coupling nut torque 0.2 N\*m.

**Coupling nut material :**  
Brass+Nickel plated.  
Stainless steel AISI304(upon request).  
Stainless steel AISI316(upon request).

**Type of terminations :**  
Crimped wires.

**Protection class :**  
IP 67/IP69K.

**Contact material and treatment :**  
Brass + Gold flash.

08

F

D

3

A

1Z

08

M

D

-

##

**SERIES**  
08 : M8 CIRCULAR CONNECTOR

**GENDER**  
F : FEMALE   M : MALE

**CONNECTOR TYPE**  
A : ANGLED 90°.  
D : STRAIGHT 180°.  
E : ANGLED 90° WITH 2 LED NPN.  
F : ANGLED 90° WITH 2 LED PNP.  
G : STRAIGHT 180° WITH 2 LED PNP.  
H : STRAIGHT 180° WITH 2 LED NPN.  
I : STRAIGHT 180° WITH 3 LED PNP.  
J : STRAIGHT 180° TOTALLY SHIELDED.  
V : ANGLED 90° TOTALLY SHIELDED.  
W : STRAIGHT 180° SNAP.  
Y : ANGLED 90° SNAP.

**NUMBERS OF POLES**  
3 : 3POLES   4 : 4POLES   6 : 6POLES   8 : 8POLES

**CABLE TYPE**  
SEE CABLES FEATURES PAGE ##

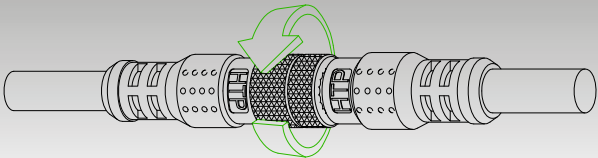
**CABLE LENGTH**  
1Z : 1m    A : +10cm  
2Z : 2m    B : +20cm  
3Z : 3m    C : +30cm  
...    ...  
I : +90cm

EXAMPLE: "...1C" = 1.3m  
"...1F" = 1.6m  
"...2A" = 2.1m

**EXTENSION**  
SPECIFY OTHER CONNECTOR'S SIDE

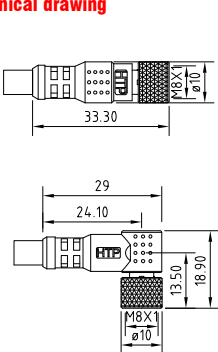
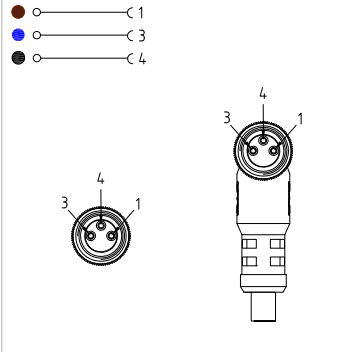
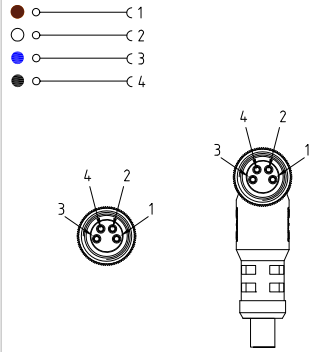
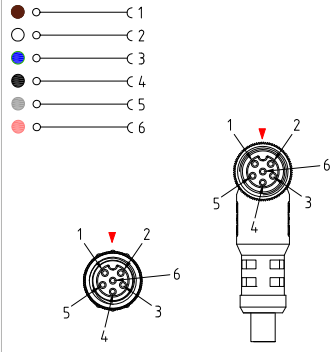
**SOME VARIABLES**  
INOX : M8 COUPLING NUT IN STAINLESS STEEL(AISI304).   IN316 : M8 COUPLING NUT IN STAINLESS STEEL(AISI316).  
HN : HEXAGONAL M8 COUPLING NUT.   S : SPECIAL STRIPPING/PEELING-TINNING.   Y : WITHOUT H.T.P.LOGO.   UL : UL APPROVED (3-4p.).

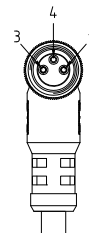
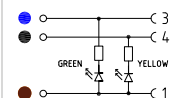
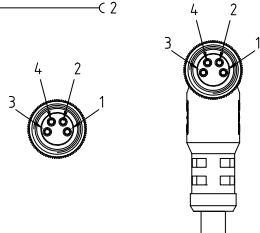
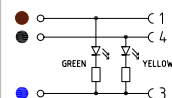
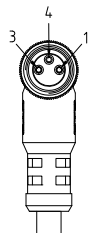
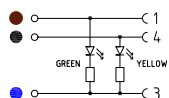
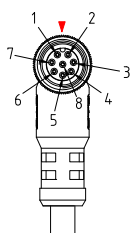
ANTI-VIBRATION SYSTEM:



\* Not available for M8 circular connector totally shielded.



|                                                                                                                                                        |  |                                                                                   |  |                                                                                   |  |                                                                                    |  |                                                                                     |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------|--|
| <b>Technical drawing</b>                                                                                                                               |  |  |  |  |  |  |  |  |  |
| <b>Product description</b>                                                                                                                             |  |                                                                                   |  |                                                                                   |  |                                                                                    |  |                                                                                     |  |
| Connector type                                                                                                                                         |  | Circular connector with moulded cable                                             |  | Circular connector with moulded cable                                             |  | Circular connector with moulded cable                                              |  |                                                                                     |  |
| Conforms to                                                                                                                                            |  | IEC 61076-2-104                                                                   |  | IEC 61076-2-104                                                                   |  | IEC 61076-2-104                                                                    |  |                                                                                     |  |
| Construction type                                                                                                                                      |  | M8 A -Coding                                                                      |  | M8 A -Coding                                                                      |  | M8 A -Coding                                                                       |  |                                                                                     |  |
| Description                                                                                                                                            |  | Circular connector M8 series with moulded cable                                   |  | Circular connector M8 series with moulded cable                                   |  | Circular connector M8 series with moulded cable                                    |  |                                                                                     |  |
| Part number                                                                                                                                            |  | <b>08FD3A1Z</b> <b>08FA3A1Z</b>                                                   |  | <b>08FD4A1Z</b> <b>08FA4A1Z</b>                                                   |  | <b>08FD6K1Z</b> <b>08FA6K1Z</b>                                                    |  |                                                                                     |  |
| Housing type                                                                                                                                           |  | Straight 180°      Angled 90°                                                     |  | Straight 180°      Angled 90°                                                     |  | Straight 180°      Angled 90°                                                      |  |                                                                                     |  |
| Cable gland                                                                                                                                            |  | Moulded cable                                                                     |  | Moulded cable                                                                     |  | Moulded cable                                                                      |  |                                                                                     |  |
| Contacts type                                                                                                                                          |  | Female                                                                            |  | Female                                                                            |  | Female                                                                             |  |                                                                                     |  |
| Number of contacts                                                                                                                                     |  | 3poles                                                                            |  | 4poles                                                                            |  | 6poles                                                                             |  |                                                                                     |  |
| Housing colour                                                                                                                                         |  | Black                                                                             |  | Black                                                                             |  | Black                                                                              |  |                                                                                     |  |
| <b>Technical data</b>                                                                                                                                  |  |                                                                                   |  |                                                                                   |  |                                                                                    |  |                                                                                     |  |
| Type of termination                                                                                                                                    |  | Contacts to crimp wires                                                           |  | Contacts to crimp wires                                                           |  | Contacts to solder wires                                                           |  |                                                                                     |  |
| Contacts material                                                                                                                                      |  | Brass+ Gold flash                                                                 |  | Brass+ Gold flash                                                                 |  | Brass+ Gold flash                                                                  |  |                                                                                     |  |
| Coupling nut type                                                                                                                                      |  | Knurl round                                                                       |  | Knurl round                                                                       |  | Knurl round                                                                        |  |                                                                                     |  |
| M8 coupling nut material                                                                                                                               |  | Brass + Nickel plated                                                             |  | Brass + Nickel plated                                                             |  | Brass + Nickel plated                                                              |  |                                                                                     |  |
| M8 coupling nut torque                                                                                                                                 |  | 0.2 N*m                                                                           |  | 0.2 N*m                                                                           |  | 0.2 N*m                                                                            |  |                                                                                     |  |
| Rated voltage                                                                                                                                          |  | 50V AC/ 60V DC                                                                    |  | 50V AC/ 60V DC                                                                    |  | 30V AC/DC                                                                          |  |                                                                                     |  |
| Rated current                                                                                                                                          |  | 3A                                                                                |  | 3A                                                                                |  | 1.5A                                                                               |  |                                                                                     |  |
| O-ring material                                                                                                                                        |  | NBR                                                                               |  | NBR                                                                               |  | NBR                                                                                |  |                                                                                     |  |
| Cable type                                                                                                                                             |  | PVC/PVC CEI2022                                                                   |  | PVC/PVC CEI2022                                                                   |  | PVC/PVC CEI2022                                                                    |  |                                                                                     |  |
| Cable jacket colour                                                                                                                                    |  | Black                                                                             |  | Black                                                                             |  | Black                                                                              |  |                                                                                     |  |
| No. Conductors / Section                                                                                                                               |  | 3x0.25mm²                                                                         |  | 4x0.25mm²                                                                         |  | 6x0.14mm²                                                                          |  |                                                                                     |  |
| Conductor colours                                                                                                                                      |  | Brown; Blue; Black                                                                |  | Brown; White; Blue; Black                                                         |  | Brown; White; Blue; Black; Grey; Pink                                              |  |                                                                                     |  |
| Cable diameter                                                                                                                                         |  | ø4mm (±0.3)                                                                       |  | ø4.4mm (±0.3)                                                                     |  | ø4.9mm (±0.3)                                                                      |  |                                                                                     |  |
| Cable length                                                                                                                                           |  | 1m                                                                                |  | 1m                                                                                |  | 1m                                                                                 |  |                                                                                     |  |
| <b>Packaging</b>                                                                                                                                       |  |                                                                                   |  |                                                                                   |  |                                                                                    |  |                                                                                     |  |
| Qty/Bag                                                                                                                                                |  | 1 pc / bag                                                                        |  | 1 pc / bag                                                                        |  | 1 pc / bag                                                                         |  |                                                                                     |  |
| <b>Other accessories options</b>                                                                                                                       |  |                                                                                   |  |                                                                                   |  |                                                                                    |  |                                                                                     |  |
| See accessories section                                                                                                                                |  |                                                                                   |  |                                                                                   |  |                                                                                    |  |                                                                                     |  |
| <b>Notes:</b><br>Connectors available with different feautres:<br>See the general features and codification scheme page<br>See the cables list section |  |                                                                                   |  |                                                                                   |  |                                                                                    |  |                                                                                     |  |



## Product description

|                                                 |                 |                                                                                              |                 |                                                                                              |                 |                                                                                              |                 |
|-------------------------------------------------|-----------------|----------------------------------------------------------------------------------------------|-----------------|----------------------------------------------------------------------------------------------|-----------------|----------------------------------------------------------------------------------------------|-----------------|
| Circular connector with moulded cable           |                 | Circular connector with moulded cable                                                        |                 | Circular connector with moulded cable                                                        |                 | Circular connector with moulded cable                                                        |                 |
| IEC 61076-2-104                                 |                 | IEC 61076-2-104                                                                              |                 | IEC 61076-2-104                                                                              |                 | IEC 61076-2-104                                                                              |                 |
| M8 A -Coding                                    |                 | M8 A -Coding                                                                                 |                 | M8 A -Coding                                                                                 |                 | M8 A -Coding                                                                                 |                 |
| Circular connector M8 series with moulded cable |                 | Circular connector M8 series n.2 Led <b>PNP</b> circuit (PIN1: GN;PIN4:YE)with moulded cable |                 | Circular connector M8 series n.2 Led <b>PNP</b> circuit (PIN1: GN;PIN4:YE)with moulded cable |                 | Circular connector M8 series n.2 Led <b>NPN</b> circuit (PIN3: GN;PIN4:YE)with moulded cable |                 |
| <b>08FD8K1Z</b>                                 | <b>08FA8K1Z</b> | <b>08FG3A1Z</b>                                                                              | <b>08FF3A1Z</b> | <b>08FG4A1Z</b>                                                                              | <b>08FF4A1Z</b> | <b>08FH3A1Z</b>                                                                              | <b>08FE3A1Z</b> |
| Straight 180°                                   | Angled 90°      | Straight 180°                                                                                | Angled 90°      | Straight 180°                                                                                | Angled 90°      | Straight 180°                                                                                | Angled 90°      |
| Moulded cable                                   |                 | Moulded cable                                                                                |                 | Moulded cable                                                                                |                 | Moulded cable                                                                                |                 |
| Female                                          |                 | Female                                                                                       |                 | Female                                                                                       |                 | Female                                                                                       |                 |
| 8poles                                          |                 | 3poles                                                                                       |                 | 4poles                                                                                       |                 | 3poles                                                                                       |                 |
| Black                                           |                 | Transparent                                                                                  |                 | Transparent                                                                                  |                 | Transparent                                                                                  |                 |

## Technical data

|                                             |  |                        |  |                           |  |                        |  |
|---------------------------------------------|--|------------------------|--|---------------------------|--|------------------------|--|
| Contacts to solder wires                    |  | Contacts to solder PCB |  | Contacts to solder PCB    |  | Contacts to solder PCB |  |
| Brass + Gold flash                          |  | Brass + Gold flash     |  | Brass + Gold flash        |  | Brass + Gold flash     |  |
| Knurl round                                 |  | Knurl round            |  | Knurl round               |  | Knurl round            |  |
| Brass + Nickel plated                       |  | Brass + Nickel plated  |  | Brass + Nickel plated     |  | Brass + Nickel plated  |  |
| 0.2 N*m                                     |  | 0.2 N*m                |  | 0.2 N*m                   |  | 0.2 N*m                |  |
| 30V AC/DC                                   |  | 10-30V DC              |  | 10-30V DC                 |  | 10-30V DC              |  |
| 1.5A                                        |  | 3A                     |  | 3A                        |  | 3A                     |  |
| NBR                                         |  | NBR                    |  | NBR                       |  | NBR                    |  |
| PVC/PVC CEI2022                             |  | PVC/PVC CEI2022        |  | PVC/PVC CEI2022           |  | PVC/PVC CEI2022        |  |
| Black                                       |  | Black                  |  | Black                     |  | Black                  |  |
| 8x0.14mm <sup>2</sup>                       |  | 3x0.25mm <sup>2</sup>  |  | 4x0.25mm <sup>2</sup>     |  | 3x0.25mm <sup>2</sup>  |  |
| White;Brown;Green;Yellow;Grey;Pink;Blue;Red |  | Brown; Blue; Black     |  | Brown; White; Blue; Black |  | Brown; Blue; Black     |  |
| ø4.9mm (±0.3)                               |  | ø4mm (±0.3)            |  | ø4.4mm (±0.3)             |  | ø4mm (±0.3)            |  |
| 1m                                          |  | 1m                     |  | 1m                        |  | 1m                     |  |

## Packaging

|            |            |            |            |
|------------|------------|------------|------------|
| 1 pc / bag | 1 pc / bag | 1 pc / bag | 1 pc / bag |
|------------|------------|------------|------------|

## Other accessories options

See accessories section

## Notes:

Connectors available with different features:  
See the general features and codification scheme page  
See the cables list section

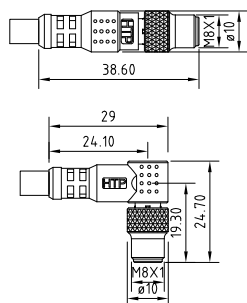


|                                                                                              |                 |                                                       |  |                                                                            |                 |                                                                            |                 |
|----------------------------------------------------------------------------------------------|-----------------|-------------------------------------------------------|--|----------------------------------------------------------------------------|-----------------|----------------------------------------------------------------------------|-----------------|
|                                                                                              |                 | <b>Technical drawing</b>                              |  |                                                                            |                 |                                                                            |                 |
|                                                                                              |                 | <b>Product description</b>                            |  |                                                                            |                 |                                                                            |                 |
| Circular connector with moulded cable                                                        |                 | Connector type                                        |  | Circular connector with moulded cable                                      |                 | Circular connector with moulded cable                                      |                 |
| IEC 61076-2-104                                                                              |                 | Conforms to                                           |  | IEC 61076-2-104                                                            |                 | IEC 61076-2-104                                                            |                 |
| M8 A -Coding                                                                                 |                 | Construction type                                     |  | M8 A -Coding                                                               |                 | M8 A -Coding                                                               |                 |
| Circular connector M8 series n.2 Led <b>NPN</b> circuit (PIN3: GN;PIN4:YE)with moulded cable |                 | Description                                           |  | Circular connector M8 series TOTALLY SHIELDED connector with moulded cable |                 | Circular connector M8 series TOTALLY SHIELDED connector with moulded cable |                 |
| <b>08FH4A1Z</b>                                                                              | <b>08FE4A1Z</b> | Part number                                           |  | <b>08FJ3J1Z</b>                                                            | <b>08FV3J1Z</b> | <b>08FJ4J1Z</b>                                                            | <b>08FV4J1Z</b> |
| Straight 180°                                                                                | Angled 90°      | Housing type                                          |  | Straight 180°                                                              | Angled 90°      | Straight 180°                                                              | Angled 90°      |
| Moulded cable                                                                                |                 | Cable gland                                           |  | Moulded cable                                                              |                 | Moulded cable                                                              |                 |
| Female                                                                                       |                 | Contacts type                                         |  | Female                                                                     |                 | Female                                                                     |                 |
| 4poles                                                                                       |                 | Number of contacts                                    |  | 3poles                                                                     |                 | 4poles                                                                     |                 |
| Transparent                                                                                  |                 | Housing colour                                        |  | Black                                                                      |                 | Black                                                                      |                 |
|                                                                                              |                 | <b>Technical data</b>                                 |  |                                                                            |                 |                                                                            |                 |
| Contacts to solder PCB                                                                       |                 | Type of termination                                   |  | Contacts to crimp wires                                                    |                 | Contacts to crimp wires                                                    |                 |
| Brass + Gold flash                                                                           |                 | Contacts material                                     |  | Brass + Gold flash                                                         |                 | Brass + Gold flash                                                         |                 |
| Knurl round                                                                                  |                 | Coupling nut type                                     |  | Knurl round                                                                |                 | Knurl round                                                                |                 |
| Brass + Nickel plated                                                                        |                 | M8 coupling nut material                              |  | Brass + Nickel plated                                                      |                 | Brass + Nickel plated                                                      |                 |
| 0.2 N*m                                                                                      |                 | M8 coupling nut torque                                |  | 0.2 N*m                                                                    |                 | 0.2 N*m                                                                    |                 |
| 10-30V DC                                                                                    |                 | Rated voltage                                         |  | 50V AC/ 60V DC                                                             |                 | 50V AC/ 60V DC                                                             |                 |
| 3A                                                                                           |                 | Rated current                                         |  | 3A                                                                         |                 | 3A                                                                         |                 |
| NBR                                                                                          |                 | O-ring material                                       |  | NBR                                                                        |                 | NBR                                                                        |                 |
| PVC/PVC CEI2022                                                                              |                 | Cable type                                            |  | PVC/PVC CEI2022 SHIELDED                                                   |                 | PVC/PVC CEI2022 SHIELDED                                                   |                 |
| Black                                                                                        |                 | Cable jacket colour                                   |  | Black                                                                      |                 | Black                                                                      |                 |
| 4x0.25mm <sup>2</sup>                                                                        |                 | No.Conductors / Section                               |  | 3x0.25mm <sup>2</sup>                                                      |                 | 4x0.25mm <sup>2</sup>                                                      |                 |
| Brown; White; Blue; Black                                                                    |                 | Conductor colours                                     |  | Brown; Blue; Black                                                         |                 | Brown; White; Blue; Black                                                  |                 |
| ø4.4mm (±0.3)                                                                                |                 | Cable diameter                                        |  | ø4.4mm (±0.3)                                                              |                 | ø4.8mm (±0.3)                                                              |                 |
| 1m length                                                                                    |                 | Cable length                                          |  | 1m                                                                         |                 | 1m                                                                         |                 |
|                                                                                              |                 | <b>Packaging</b>                                      |  |                                                                            |                 |                                                                            |                 |
| 1 pc / bag                                                                                   |                 | Qty/Bag                                               |  | 1 pc / bag                                                                 |                 | 1 pc / bag                                                                 |                 |
|                                                                                              |                 | <b>Other accessories options</b>                      |  |                                                                            |                 |                                                                            |                 |
|                                                                                              |                 | See accessories section                               |  |                                                                            |                 |                                                                            |                 |
|                                                                                              |                 | <b>Notes:</b>                                         |  |                                                                            |                 |                                                                            |                 |
|                                                                                              |                 | Connectors available with different feaatures:        |  |                                                                            |                 |                                                                            |                 |
|                                                                                              |                 | See the general features and codification scheme page |  |                                                                            |                 |                                                                            |                 |
|                                                                                              |                 | See the cables list section                           |  |                                                                            |                 |                                                                            |                 |

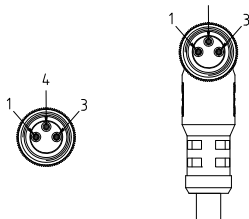




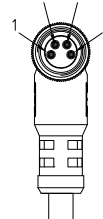
#### Technical drawing



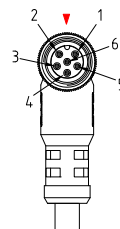
- 1 — 1
- 3 — 3
- 4 — 4



- 1 — 1
- 2 — 2
- 3 — 3
- 4 — 4



- 1 — 1
- 2 — 2
- 3 — 3
- 4 — 4
- 5 — 5
- 6 — 6



#### Product description

|                    |                                                 |                 |                                                 |                 |                                                 |                 |
|--------------------|-------------------------------------------------|-----------------|-------------------------------------------------|-----------------|-------------------------------------------------|-----------------|
| Connector type     | Circular connector with moulded cable           |                 | Circular connector with moulded cable           |                 | Circular connector with moulded cable           |                 |
| Conforms to        | IEC 61076-2-104                                 |                 | IEC 61076-2-104                                 |                 | IEC 61076-2-104                                 |                 |
| Construction type  | M8 A -Coding                                    |                 | M8 A -Coding                                    |                 | M8 A -Coding                                    |                 |
| Description        | Circular connector M8 series with moulded cable |                 | Circular connector M8 series with moulded cable |                 | Circular connector M8 series with moulded cable |                 |
| Part number        | <b>08MD3A1Z</b>                                 | <b>08MA3A1Z</b> | <b>08MD4A1Z</b>                                 | <b>08MA4A1Z</b> | <b>08MD6K1Z</b>                                 | <b>08MA6K1Z</b> |
| Housing type       | Straight 180°                                   | Angled 90°      | Straight 180°                                   | Angled 90°      | Straight 180°                                   | Angled 90°      |
| Cable gland        | Moulded cable                                   |                 | Moulded cable                                   |                 | Moulded cable                                   |                 |
| Contacts type      | Male                                            |                 | Male                                            |                 | Male                                            |                 |
| Number of contacts | 3poles                                          |                 | 4poles                                          |                 | 6poles                                          |                 |
| Housing colour     | Black                                           |                 | Black                                           |                 | Black                                           |                 |

#### Technical data

|                          |                         |  |                           |  |                                  |  |
|--------------------------|-------------------------|--|---------------------------|--|----------------------------------|--|
| Type of termination      | Contacts to crimp wires |  | Contacts to crimp wires   |  | Contacts to solder wires         |  |
| Contacts material        | Brass + Gold flash      |  | Brass + Gold flash        |  | Brass + Gold flash               |  |
| Coupling nut type        | Knurl round             |  | Knurl round               |  | Knurl round                      |  |
| M8 coupling nut material | Brass + Nickel plated   |  | Brass + Nickel plated     |  | Brass + Nickel plated            |  |
| M8 coupling nut torque   | 0.2 N*m                 |  | 0.2 N*m                   |  | 0.2 N*m                          |  |
| Rated voltage            | 50V AC/ 60V DC          |  | 50V AC/ 60V DC            |  | 30V AC/DC                        |  |
| Rated current            | 3A                      |  | 3A                        |  | 1.5A                             |  |
| O-ring material          | -                       |  | -                         |  | -                                |  |
| Cable type               | PVC/PVC CEI2022         |  | PVC/PVC CEI2022           |  | PVC/PVC CEI2022                  |  |
| Cable jacket colour      | Black                   |  | Black                     |  | Black                            |  |
| No. Conductors / Section | 3x0.25mm <sup>2</sup>   |  | 4x0.25mm <sup>2</sup>     |  | 6x0.14mm <sup>2</sup>            |  |
| Conductor colours        | Brown; Blue; Black      |  | Brown; White; Blue; Black |  | Brown;White;Blue;Black;Grey;Pink |  |
| Cable diameter           | ø4mm (±0.3)             |  | ø4.4mm (±0.3)             |  | ø4.9mm (±0.3)                    |  |
| Cable length             | 1m                      |  | 1m                        |  | 1m                               |  |

#### Packaging

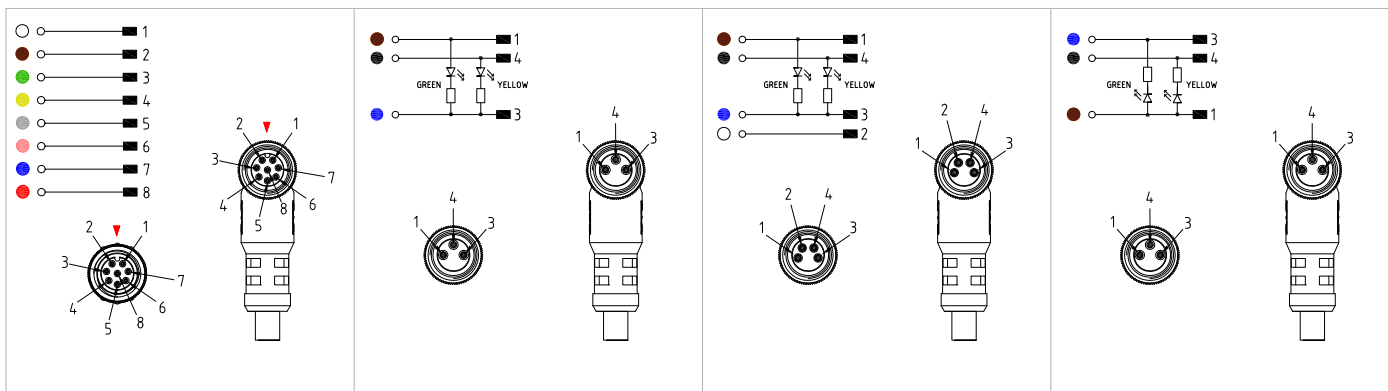
|         |            |            |            |
|---------|------------|------------|------------|
| Qty/Bag | 1 pc / bag | 1 pc / bag | 1 pc / bag |
|---------|------------|------------|------------|

#### Other accessories options

See accessories section

#### Notes:

Connectors available with different features:  
See the general features and codification scheme page  
See the cables list section



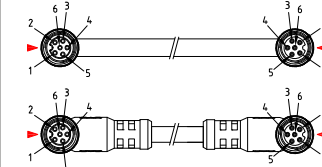
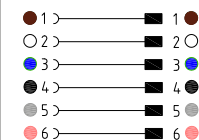
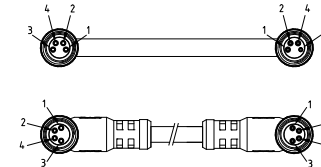
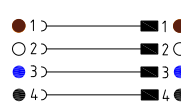
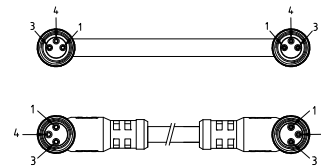
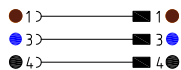
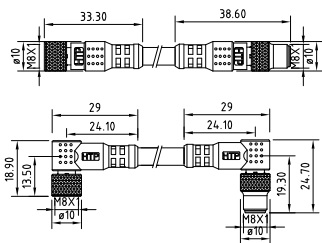
| Product description                                                                                                                   |                 |                                                                                              |                 |                                                                                              |                 |                                                                                              |                 |
|---------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------------------------------------------------------------------------------------------|-----------------|----------------------------------------------------------------------------------------------|-----------------|----------------------------------------------------------------------------------------------|-----------------|
| Circular connector with moulded cable                                                                                                 |                 | Circular connector with moulded cable                                                        |                 | Circular connector with moulded cable                                                        |                 | Circular connector with moulded cable                                                        |                 |
| IEC 61076-2-104                                                                                                                       |                 | IEC 61076-2-104                                                                              |                 | IEC 61076-2-104                                                                              |                 | IEC 61076-2-104                                                                              |                 |
| M8 A -Coding                                                                                                                          |                 | M8 A -Coding                                                                                 |                 | M8 A -Coding                                                                                 |                 | M8 A -Coding                                                                                 |                 |
| Circular connector M8 series with moulded cable                                                                                       |                 | Circular connector M8 series n.2 Led <b>PNP</b> circuit (PIN1: GN;PIN4:YE)with moulded cable |                 | Circular connector M8 series n.2 Led <b>PNP</b> circuit (PIN1: GN;PIN4:YE)with moulded cable |                 | Circular connector M8 series n.2 Led <b>NPN</b> circuit (PIN3: GN;PIN4:YE)with moulded cable |                 |
| <b>08MD8K1Z</b>                                                                                                                       | <b>08MA8K1Z</b> | <b>08MG3A1Z</b>                                                                              | <b>08MF3A1Z</b> | <b>08MG4A1Z</b>                                                                              | <b>08MF4A1Z</b> | <b>08MH3A1Z</b>                                                                              | <b>08ME3A1Z</b> |
| Straight 180°                                                                                                                         | Angled 90°      | Straight 180°                                                                                | Angled 90°      | Straight 180°                                                                                | Angled 90°      | Straight 180°                                                                                | Angled 90°      |
| Moulded cable                                                                                                                         |                 | Moulded cable                                                                                |                 | Moulded cable                                                                                |                 | Moulded cable                                                                                |                 |
| Male                                                                                                                                  |                 | Male                                                                                         |                 | Male                                                                                         |                 | Male                                                                                         |                 |
| 8poles                                                                                                                                |                 | 3poles                                                                                       |                 | 4poles                                                                                       |                 | 3poles                                                                                       |                 |
| Black                                                                                                                                 |                 | Transparent                                                                                  |                 | Transparent                                                                                  |                 | Transparent                                                                                  |                 |
| Technical data                                                                                                                        |                 |                                                                                              |                 |                                                                                              |                 |                                                                                              |                 |
| Contacts to solder wires                                                                                                              |                 | Contacts to solder PCB                                                                       |                 | Contacts to solder PCB                                                                       |                 | Contacts to solder PCB                                                                       |                 |
| Brass + Gold flash                                                                                                                    |                 | Brass + Gold flash                                                                           |                 | Brass + Gold flash                                                                           |                 | Brass + Gold flash                                                                           |                 |
| Knurl round                                                                                                                           |                 | Knurl round                                                                                  |                 | Knurl round                                                                                  |                 | Knurl round                                                                                  |                 |
| Brass + Nickel plated                                                                                                                 |                 | Brass + Nickel plated                                                                        |                 | Brass + Nickel plated                                                                        |                 | Brass + Nickel plated                                                                        |                 |
| 0.2 N*m                                                                                                                               |                 | 0.2 N*m                                                                                      |                 | 0.2 N*m                                                                                      |                 | 0.2 N*m                                                                                      |                 |
| 30V AC/DC                                                                                                                             |                 | 10-30V DC                                                                                    |                 | 10-30V DC                                                                                    |                 | 10-30V DC                                                                                    |                 |
| 1.5A                                                                                                                                  |                 | 3A                                                                                           |                 | 3A                                                                                           |                 | 3A                                                                                           |                 |
| -                                                                                                                                     |                 | -                                                                                            |                 | -                                                                                            |                 | -                                                                                            |                 |
| PVC/PVC CEI2022                                                                                                                       |                 | PVC/PVC CEI2022                                                                              |                 | PVC/PVC CEI2022                                                                              |                 | PVC/PVC CEI2022                                                                              |                 |
| Black                                                                                                                                 |                 | Black                                                                                        |                 | Black                                                                                        |                 | Black                                                                                        |                 |
| 8x0.14mm²                                                                                                                             |                 | 3x0.25mm²                                                                                    |                 | 4x0.25mm²                                                                                    |                 | 3x0.25mm²                                                                                    |                 |
| White;Brown;Green;Yellow;Grey;Pink;Blue;Red                                                                                           |                 | Brown; Blue; Black                                                                           |                 | Brown; White; Blue; Black                                                                    |                 | Brown; Blue; Black                                                                           |                 |
| ø4.9mm (±0.3)                                                                                                                         |                 | ø4mm (±0.3)                                                                                  |                 | ø4.4mm (±0.3)                                                                                |                 | ø4mm (±0.3)                                                                                  |                 |
| 1m                                                                                                                                    |                 | 1m                                                                                           |                 | 1m                                                                                           |                 | 1m                                                                                           |                 |
| Packaging                                                                                                                             |                 |                                                                                              |                 |                                                                                              |                 |                                                                                              |                 |
|                                                                                                                                       |                 | 1 pc / bag                                                                                   |                 | 1 pc / bag                                                                                   |                 | 1 pc / bag                                                                                   |                 |
| Other accessories options                                                                                                             |                 |                                                                                              |                 |                                                                                              |                 |                                                                                              |                 |
| See accessories section                                                                                                               |                 |                                                                                              |                 |                                                                                              |                 |                                                                                              |                 |
| Notes:                                                                                                                                |                 |                                                                                              |                 |                                                                                              |                 |                                                                                              |                 |
| Connectors available with different features:<br>See the general features and codification scheme page<br>See the cables list section |                 |                                                                                              |                 |                                                                                              |                 |                                                                                              |                 |



|                                                                                              |                 |                                                       |  |                                                                            |                 |                                                                            |                 |
|----------------------------------------------------------------------------------------------|-----------------|-------------------------------------------------------|--|----------------------------------------------------------------------------|-----------------|----------------------------------------------------------------------------|-----------------|
|                                                                                              |                 | <b>Technical drawing</b>                              |  |                                                                            |                 |                                                                            |                 |
|                                                                                              |                 |                                                       |  |                                                                            |                 |                                                                            |                 |
| <b>Product description</b>                                                                   |                 |                                                       |  |                                                                            |                 |                                                                            |                 |
| Circular connector with moulded cable                                                        |                 | Connector type                                        |  | Circular connector with moulded cable                                      |                 | Circular connector with moulded cable                                      |                 |
| IEC 61076-2-104                                                                              |                 | Conforms to                                           |  | IEC 61076-2-104                                                            |                 | IEC 61076-2-104                                                            |                 |
| M8 A -Coding                                                                                 |                 | Construction type                                     |  | M8 A -Coding                                                               |                 | M8 A -Coding                                                               |                 |
| Circular connector M8 series n.2 Led <b>NPN</b> circuit (PIN3: GN;PIN4:YE)with moulded cable |                 | Description                                           |  | Circular connector M8 series TOTALLY SHIELDED connector with moulded cable |                 | Circular connector M8 series TOTALLY SHIELDED connector with moulded cable |                 |
| <b>08MH4A1Z</b>                                                                              | <b>08ME4A1Z</b> | Part number                                           |  | <b>08MJ3J1Z</b>                                                            | <b>08MV3J1Z</b> | <b>08MJ4J1Z</b>                                                            | <b>08MV4J1Z</b> |
| Straight 180°                                                                                | Angled 90°      | Housing type                                          |  | Straight 180°                                                              | Angled 90°      | Straight 180°                                                              | Angled 90°      |
| Moulded cable                                                                                |                 | Cable gland                                           |  | Moulded cable                                                              |                 | Moulded cable                                                              |                 |
| Male                                                                                         |                 | Contacts type                                         |  | Male                                                                       |                 | Male                                                                       |                 |
| 4poles                                                                                       |                 | Number of contacts                                    |  | 3poles                                                                     |                 | 4poles                                                                     |                 |
| Transparent                                                                                  |                 | Housing colour                                        |  | Black                                                                      |                 | Black                                                                      |                 |
|                                                                                              |                 |                                                       |  |                                                                            |                 |                                                                            |                 |
| <b>Technical data</b>                                                                        |                 |                                                       |  |                                                                            |                 |                                                                            |                 |
| Contacts to solder PCB                                                                       |                 | Type of termination                                   |  | Contacts to crimp wires                                                    |                 | Contacts to crimp wires                                                    |                 |
| Brass + Gold flash                                                                           |                 | Contacts material                                     |  | Brass + Gold flash                                                         |                 | Brass + Gold flash                                                         |                 |
| Knurl round                                                                                  |                 | Coupling nut type                                     |  | Knurl round                                                                |                 | Knurl round                                                                |                 |
| Brass + Nickel plated                                                                        |                 | M8 coupling nut material                              |  | Brass + Nickel plated                                                      |                 | Brass + Nickel plated                                                      |                 |
| 0.2 N*m                                                                                      |                 | M8 coupling nut torque                                |  | 0.2 N*m                                                                    |                 | 0.2 N*m                                                                    |                 |
| 10-30V DC                                                                                    |                 | Rated voltage                                         |  | 50V AC/ 60V DC                                                             |                 | 50V AC/ 60V DC                                                             |                 |
| 3A                                                                                           |                 | Rated current                                         |  | 3A                                                                         |                 | 3A                                                                         |                 |
| -                                                                                            |                 | O-ring material                                       |  | -                                                                          |                 | -                                                                          |                 |
| PVC/PVC CEI2022                                                                              |                 | Cable type                                            |  | PVC/PVC CEI2022 SHIELDED                                                   |                 | PVC/PVC CEI2022 SHIELDED                                                   |                 |
| Black                                                                                        |                 | Cable jacket colour                                   |  | Black                                                                      |                 | Black                                                                      |                 |
| 4x0.25mm <sup>2</sup>                                                                        |                 | No.Conductors / Section                               |  | 3x0.25mm <sup>2</sup>                                                      |                 | 4x0.25mm <sup>2</sup>                                                      |                 |
| Brown; White; Blue; Black                                                                    |                 | Conductor colours                                     |  | Brown; Blue; Black                                                         |                 | Brown; White; Blue; Black                                                  |                 |
| ø4.4mm (±0.3)                                                                                |                 | Cable diameter                                        |  | ø4.4mm (±0.3)                                                              |                 | ø4.8mm (±0.3)                                                              |                 |
| 1length                                                                                      |                 | Cable length                                          |  | 1m                                                                         |                 | 1m                                                                         |                 |
|                                                                                              |                 |                                                       |  |                                                                            |                 |                                                                            |                 |
| <b>Packaging</b>                                                                             |                 |                                                       |  |                                                                            |                 |                                                                            |                 |
| 1 pc / bag                                                                                   |                 | Qty/Bag                                               |  | 1 pc / bag                                                                 |                 | 1 pc / bag                                                                 |                 |
|                                                                                              |                 |                                                       |  |                                                                            |                 |                                                                            |                 |
| <b>Other accessories options</b>                                                             |                 |                                                       |  |                                                                            |                 |                                                                            |                 |
|                                                                                              |                 | See accessories section                               |  |                                                                            |                 |                                                                            |                 |
|                                                                                              |                 |                                                       |  |                                                                            |                 |                                                                            |                 |
|                                                                                              |                 | <b>Notes:</b>                                         |  |                                                                            |                 |                                                                            |                 |
|                                                                                              |                 | Connectors available with different features:         |  |                                                                            |                 |                                                                            |                 |
|                                                                                              |                 | See the general features and codification scheme page |  |                                                                            |                 |                                                                            |                 |
|                                                                                              |                 | See the cables list section                           |  |                                                                            |                 |                                                                            |                 |



#### Technical drawing



#### Product description

|                    |                                                 |                     |                                                 |                     |                                                 |                     |
|--------------------|-------------------------------------------------|---------------------|-------------------------------------------------|---------------------|-------------------------------------------------|---------------------|
| Connector type     | Circular connector with moulded cable           |                     | Circular connector with moulded cable           |                     | Circular connector with moulded cable           |                     |
| Conforms to        | IEC 61076-2-104                                 |                     | IEC 61076-2-104                                 |                     | IEC 61076-2-104                                 |                     |
| Construction type  | M8 A -Coding                                    |                     | M8 A -Coding                                    |                     | M8 A -Coding                                    |                     |
| Description        | Circular connector M8 series with moulded cable |                     | Circular connector M8 series with moulded cable |                     | Circular connector M8 series with moulded cable |                     |
| Part number        | <b>08FD3A1Z08MD</b>                             | <b>08FA3A1Z08MA</b> | <b>08FD4A1Z08MD</b>                             | <b>08FA4A1Z08MA</b> | <b>08FD6K1Z08MD</b>                             | <b>08FA6K1Z08MA</b> |
| Housing type       | Straight 180°                                   | Angled 90°          | Straight 180°                                   | Angled 90°          | Straight 180°                                   | Angled 90°          |
| Cable gland        | Moulded cable                                   |                     | Moulded cable                                   |                     | Moulded cable                                   |                     |
| Contacts type      | Female-Male                                     |                     | Female-Male                                     |                     | Female-Male                                     |                     |
| Number of contacts | 3poles                                          |                     | 4poles                                          |                     | 6poles                                          |                     |
| Housing colour     | Black                                           |                     | Black                                           |                     | Black                                           |                     |

#### Technical data

|                          |                         |  |                           |  |                                  |  |
|--------------------------|-------------------------|--|---------------------------|--|----------------------------------|--|
| Type of termination      | Contacts to crimp wires |  | Contacts to crimp wires   |  | Contacts to solder wires         |  |
| Contacts material        | Brass+Gold flash        |  | Brass+Gold flash          |  | Brass+Gold flash                 |  |
| Coupling nut type        | Knurl round             |  | Knurl round               |  | Knurl round                      |  |
| M8 coupling nut material | Brass+Nickel plated     |  | Brass+Nickel plated       |  | Brass+Nickel plated              |  |
| M8 coupling nut torque   | 0.2 N*m                 |  | 0.2 N*m                   |  | 0.2 N*m                          |  |
| Rated voltage            | 50V AC/ 60V DC          |  | 50V AC/ 60V DC            |  | 30V AC/DC                        |  |
| Rated current            | 3A                      |  | 3A                        |  | 1.5A                             |  |
| O-ring material          | NBR                     |  | NBR                       |  | NBR                              |  |
| Cable type               | PVC/PVC CEI2022         |  | PVC/PVC CEI2022           |  | PVC/PVC CEI2022                  |  |
| Cable jacket colour      | Black                   |  | Black                     |  | Black                            |  |
| No. Conductors / Section | 3x0.25mm <sup>2</sup>   |  | 4x0.25mm <sup>2</sup>     |  | 6x0.14mm <sup>2</sup>            |  |
| Conductor colours        | Brown; Blue; Black      |  | Brown; White; Blue; Black |  | Brown;White;Blue;Black;Grey;Pink |  |
| Cable diameter           | ø4mm (±0.3)             |  | ø4.4mm (±0.3)             |  | ø4.9mm (±0.3)                    |  |
| Cable length             | 1m                      |  | 1m                        |  | 1m                               |  |

#### Packaging

|         |            |            |            |
|---------|------------|------------|------------|
| Qty/Bag | 1 pc / bag | 1 pc / bag | 1 pc / bag |
|---------|------------|------------|------------|

#### Other accessories options

See accessories section

#### Notes:

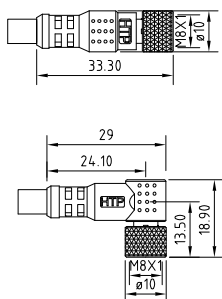
Connectors available with different feautres:  
See the general features and codification scheme page  
See the cables list section



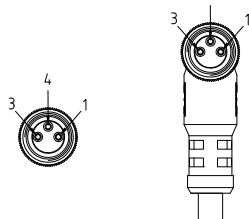
|                                                 |                     |                                                                                                                                                        |  |                                                                |                     |                                                                |                     |
|-------------------------------------------------|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------|---------------------|----------------------------------------------------------------|---------------------|
|                                                 |                     | <b>Technical drawing</b><br>                                                                                                                           |  |                                                                |                     |                                                                |                     |
|                                                 |                     | <b>Product description</b>                                                                                                                             |  |                                                                |                     |                                                                |                     |
| Circular connector with moulded cable           |                     | Connector type                                                                                                                                         |  | Circular connector with moulded cable                          |                     | Circular connector with moulded cable                          |                     |
| IEC 61076-2-104                                 |                     | Conforms to                                                                                                                                            |  | IEC 61076-2-104                                                |                     | IEC 61076-2-104                                                |                     |
| M8 A -Coding                                    |                     | Construction type                                                                                                                                      |  | M8 A -Coding                                                   |                     | M8 A -Coding                                                   |                     |
| Circular connector M8 series with moulded cable |                     | Description                                                                                                                                            |  | Extension M8-M8 connectors TOTALLY SHIELDED with moulded cable |                     | Extension M8-M8 connectors TOTALLY SHIELDED with moulded cable |                     |
| <b>08FD8K1Z08MD</b>                             | <b>08FA8K1Z08MA</b> | Part number                                                                                                                                            |  | <b>08FJ3J1Z08MJ</b>                                            | <b>08FV3J1Z08MV</b> | <b>08FJ4J1Z08MJ</b>                                            | <b>08FV4J1Z08MV</b> |
| Straight 180°                                   | Angled 90°          | Housing type                                                                                                                                           |  | Straight 180°                                                  | Angled 90°          | Straight 180°                                                  | Angled 90°          |
| Moulded cable                                   |                     | Cable gland                                                                                                                                            |  | Moulded cable                                                  |                     | Moulded cable                                                  |                     |
| Female-Male                                     |                     | Contacts type                                                                                                                                          |  | Female-Male                                                    |                     | Female-Male                                                    |                     |
| 8poles                                          |                     | Number of contacts                                                                                                                                     |  | 3poles                                                         |                     | 4poles                                                         |                     |
| Black                                           |                     | Housing colour                                                                                                                                         |  | Black                                                          |                     | Black                                                          |                     |
|                                                 |                     | <b>Technical data</b>                                                                                                                                  |  |                                                                |                     |                                                                |                     |
| Contacts to solder wires                        |                     | Type of termination                                                                                                                                    |  | Contacts to crimp wires                                        |                     | Contacts to crimp wires                                        |                     |
| Brass + Gold flash                              |                     | Contacts material                                                                                                                                      |  | Brass + Gold flash                                             |                     | Brass + Gold flash                                             |                     |
| Knurl round                                     |                     | Coupling nut type                                                                                                                                      |  | Knurl round                                                    |                     | Knurl round                                                    |                     |
| Brass + Nickel plated                           |                     | M8 coupling nut material                                                                                                                               |  | Brass + Nickel plated                                          |                     | Brass + Nickel plated                                          |                     |
| 0.2 N*m                                         |                     | M8 coupling nut torque                                                                                                                                 |  | 0.2 N*m                                                        |                     | 0.2 N*m                                                        |                     |
| 30V AC/DC                                       |                     | Rated voltage                                                                                                                                          |  | 50V AC/ 60V DC                                                 |                     | 50V AC/ 60V DC                                                 |                     |
| 1.5A                                            |                     | Rated current                                                                                                                                          |  | 3A                                                             |                     | 3A                                                             |                     |
| NBR                                             |                     | O-ring material                                                                                                                                        |  | NBR                                                            |                     | NBR                                                            |                     |
| PVC/PVC CEI2022                                 |                     | Cable type                                                                                                                                             |  | PVC/PVC CEI2022 SHIELDED                                       |                     | PVC/PVC CEI2022 SHIELDED                                       |                     |
| Black                                           |                     | Cable jacket colour                                                                                                                                    |  | Black                                                          |                     | Black                                                          |                     |
| 8x0.14mm <sup>2</sup>                           |                     | No. Conductors / Section                                                                                                                               |  | 3x0.25mm <sup>2</sup>                                          |                     | 4x0.25mm <sup>2</sup>                                          |                     |
| White;Brown;Green;Yellow;Grey;Pink;Blue;Red     |                     | Conductor colours                                                                                                                                      |  | Brown; Blue; Black                                             |                     | Brown; White; Blue; Black                                      |                     |
| ø4.9mm (±0.3)                                   |                     | Cable diameter                                                                                                                                         |  | ø4.4mm (±0.3)                                                  |                     | ø4.8mm (±0.3)                                                  |                     |
| 1m length                                       |                     | Cable length                                                                                                                                           |  | 1m                                                             |                     | 1m                                                             |                     |
|                                                 |                     | <b>Packaging</b>                                                                                                                                       |  |                                                                |                     |                                                                |                     |
| 1 pc / bag                                      |                     | Qty/Bag                                                                                                                                                |  | 1 pc / bag                                                     |                     | 1 pc / bag                                                     |                     |
|                                                 |                     | <b>Other accessories options</b>                                                                                                                       |  |                                                                |                     |                                                                |                     |
|                                                 |                     | See accessories section                                                                                                                                |  |                                                                |                     |                                                                |                     |
|                                                 |                     | <b>Notes:</b><br>Connectors available with different features:<br>See the general features and codification scheme page<br>See the cables list section |  |                                                                |                     |                                                                |                     |



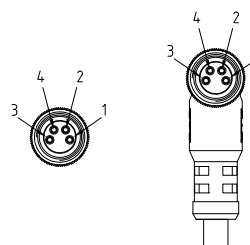
#### Technical drawing



- — C 1
- — C 3
- — C 4



- — C 1
- — C 2
- — C 3
- — C 4



#### Product description

|                    |                                                             |                    |                                                             |                    |
|--------------------|-------------------------------------------------------------|--------------------|-------------------------------------------------------------|--------------------|
| Connector type     | Circular connector with moulded cable                       |                    | Circular connector with moulded cable                       |                    |
| Conforms to        | IEC 61076-2-104 / UL approved                               |                    | IEC 61076-2-104 / UL approved                               |                    |
| Construction type  | M8 A -Coding                                                |                    | M8 A -Coding                                                |                    |
| Description        | Circular connector M8 series,UL approved with moulded cable |                    | Circular connector M8 series,UL approved with moulded cable |                    |
| Part number        | <b>08FD3S1Z-UL</b>                                          | <b>08FA3S1Z-UL</b> | <b>08FD4S1Z-UL</b>                                          | <b>08FA4S1Z-UL</b> |
| Housing type       | Straight 180°                                               | Angled 90°         | Straight 180°                                               | Angled 90°         |
| Cable gland        | Moulded cable                                               |                    | Moulded cable                                               |                    |
| Contacts type      | Female                                                      |                    | Female                                                      |                    |
| Number of contacts | 3poles                                                      |                    | 4poles                                                      |                    |
| Housing colour     | Black                                                       |                    | Black                                                       |                    |

#### Technical data

|                          |                                |  |                                |  |
|--------------------------|--------------------------------|--|--------------------------------|--|
| Type of termination      | Contacts to crimp wires        |  | Contacts to crimp wires        |  |
| Contacts material        | Brass + Gold flash             |  | Brass + Gold flash             |  |
| Coupling nut type        | Knurl round                    |  | Knurl round                    |  |
| M8 coupling nut material | Brass + Nickel plated          |  | Brass + Nickel plated          |  |
| M8 coupling nut torque   | 0.2 N*m                        |  | 0.2 N*m                        |  |
| Rated voltage            | 50V AC/ 60V DC                 |  | 50V AC/ 60V DC                 |  |
| Rated current            | 3A                             |  | 3A                             |  |
| O-ring material          | NBR                            |  | NBR                            |  |
| Cable type               | PVC/PVC ULstyle 21179          |  | PVC/PVC ULstyle 21179          |  |
| Cable jacket colour      | Black                          |  | Black                          |  |
| No.Conductors / Section  | 3xAWG24 (0.25mm <sup>2</sup> ) |  | 4xAWG24 (0.25mm <sup>2</sup> ) |  |
| Conductor colours        | Brown; Blue; Black             |  | Brown; White; Blue; Black      |  |
| Cable diameter           | ø4.2mm (±0.3)                  |  | ø4.3mm (±0.3)                  |  |
| Cable length             | 1m                             |  | 1m                             |  |

#### Packaging

|         |            |         |            |         |
|---------|------------|---------|------------|---------|
| Qty/Bag | 1 pc / bag | length. | 1 pc / bag | length. |
|---------|------------|---------|------------|---------|

#### Other accessories options

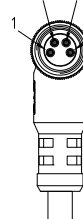
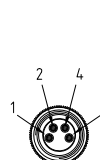
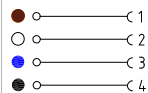
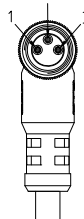
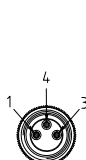
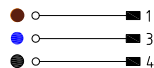
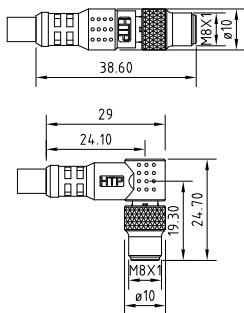
See accessories section

#### Notes:

Connectors available with different features:  
See the general features and codification scheme page  
See the cables list section



#### Technical drawing



#### Product description

|                    |                                                             |                    |                                                             |                    |
|--------------------|-------------------------------------------------------------|--------------------|-------------------------------------------------------------|--------------------|
| Connector type     | Circular connector with moulded cable                       |                    | Circular connector with moulded cable                       |                    |
| Conforms to        | IEC 61076-2-104 / UL approved                               |                    | IEC 61076-2-104 / UL approved                               |                    |
| Construction type  | M8 A -Coding                                                |                    | M8 A -Coding                                                |                    |
| Description        | Circular connector M8 series,UL approved with moulded cable |                    | Circular connector M8 series,UL approved with moulded cable |                    |
| Part number        | <b>08MD3S1Z-UL</b>                                          | <b>08MA3S1Z-UL</b> | <b>08MD4S1Z-UL</b>                                          | <b>08MA4S1Z-UL</b> |
| Housing type       | Straight 180°                                               | Angled 90°         | Straight 180°                                               | Angled 90°         |
| Cable gland        | Moulded cable                                               |                    | Moulded cable                                               |                    |
| Contacts type      | Male                                                        |                    | Male                                                        |                    |
| Number of contacts | 3poles                                                      |                    | 4poles                                                      |                    |
| Housing colour     | Black                                                       |                    | Black                                                       |                    |

#### Technical data

|                          |                         |  |                           |  |
|--------------------------|-------------------------|--|---------------------------|--|
| Type of termination      | Contacts to crimp wires |  | Contacts to crimp wires   |  |
| Contacts material        | Brass + Gold flash      |  | Brass + Gold flash        |  |
| Coupling nut type        | Knurl round             |  | Knurl round               |  |
| M8 coupling nut material | Brass + Nickel plated   |  | Brass + Nickel plated     |  |
| M8 coupling nut torque   | 0.2 N*m                 |  | 0.2 N*m                   |  |
| Rated voltage            | 50V AC/ 60V DC          |  | 50V AC/ 60V DC            |  |
| Rated current            | 3A                      |  | 3A                        |  |
| O-ring material          | -                       |  | -                         |  |
| Cable type               | PVC/PVC ULstyle 21179   |  | PVC/PVC ULstyle 21179     |  |
| Cable jacket colour      | Black                   |  | Black                     |  |
| No. Conductors / Section | 3xAWG24 (0.25mm²)       |  | 4xAWG24 (0.25mm²)         |  |
| Conductor colours        | Brown; Blue; Black      |  | Brown; White; Blue; Black |  |
| Cable diameter           | ø4.2mm (±0.3)           |  | ø4.3mm (±0.3)             |  |
| Cable length             | 1m                      |  | 1m                        |  |

#### Packaging

|         |                                  |                                  |
|---------|----------------------------------|----------------------------------|
| Qty/Bag | Variable according cable lenght. | Variable according cable lenght. |
|---------|----------------------------------|----------------------------------|

#### Other accessories options

See accessories section

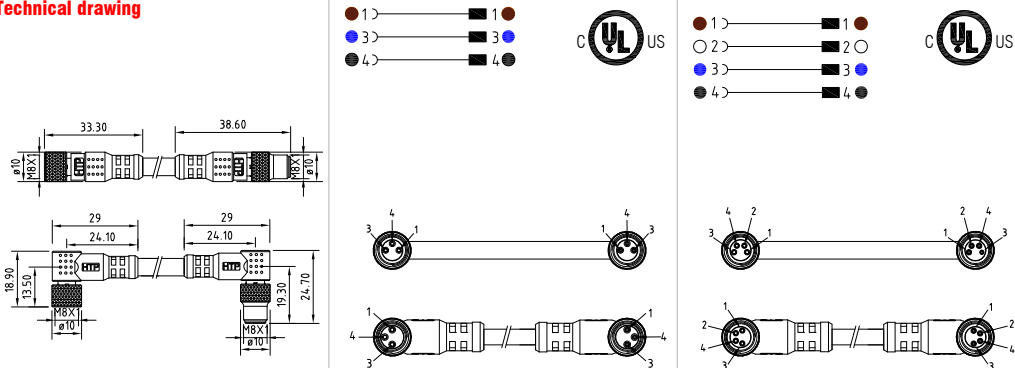
#### Notes:

Connectors available with different feautres:  
See the general features and codification scheme page  
See the cables list section





#### Technical drawing



#### Product description

|                    |                                                 |                        |                                                 |                        |
|--------------------|-------------------------------------------------|------------------------|-------------------------------------------------|------------------------|
| Connector type     | Circular connector with moulded cable           |                        | Circular connector with moulded cable           |                        |
| Conforms to        | IEC 61076-2-104 / UL approved                   |                        | IEC 61076-2-104 / UL approved                   |                        |
| Construction type  | M8 A -Coding                                    |                        | M8 A -Coding                                    |                        |
| Description        | Circular connector M8 series with moulded cable |                        | Circular connector M8 series with moulded cable |                        |
| Part number        | <b>08FD3S1Z08MD-UL</b>                          | <b>08FA3S1Z08MA-UL</b> | <b>08FD4S1Z08MD-UL</b>                          | <b>08FA4S1Z08MA-UL</b> |
| Housing type       | Straight 180°                                   | Angled 90°             | Straight 180°                                   | Angled 90°             |
| Cable gland        | Moulded cable                                   |                        | Moulded cable                                   |                        |
| Contacts type      | Female-Male                                     |                        | Female-Male                                     |                        |
| Number of contacts | 3poles                                          |                        | 4poles                                          |                        |
| Housing colour     | Black                                           |                        | Black                                           |                        |

#### Technical data

|                          |                                |  |                                |  |
|--------------------------|--------------------------------|--|--------------------------------|--|
| Type of termination      | Contacts to crimp wires        |  | Contacts to crimp wires        |  |
| Contacts material        | Brass + Gold flash             |  | Brass + Gold flash             |  |
| Coupling nut type        | Knurl round                    |  | Knurl round                    |  |
| M8 coupling nut material | Brass + Nickel plated          |  | Brass + Nickel plated          |  |
| M8 coupling nut torque   | 0.2 N*m                        |  | 0.2 N*m                        |  |
| Rated voltage            | 50V AC/ 60V DC                 |  | 50V AC/ 60V DC                 |  |
| Rated current            | 3A                             |  | 3A                             |  |
| O-ring material          | NBR                            |  | NBR                            |  |
| Cable type               | PVC/PVC ULstyle 21179          |  | PVC/PVC ULstyle 21179          |  |
| Cable jacket colour      | Black                          |  | Black                          |  |
| No. Conductors / Section | 3xAWG24 (0.25mm <sup>2</sup> ) |  | 4xAWG24 (0.25mm <sup>2</sup> ) |  |
| Conductor colours        | Brown; Blue; Black             |  | Brown; White; Blue; Black      |  |
| Cable diameter           | ø4.2mm (±0.3)                  |  | ø4.3mm (±0.3)                  |  |
| Cable length             | 1m                             |  | 1m                             |  |

#### Packaging

|         |            |            |
|---------|------------|------------|
| Qty/Bag | 1 pc / bag | 1 pc / bag |
|---------|------------|------------|

#### Other accessories options

See accessories section

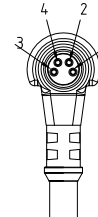
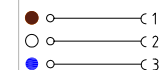
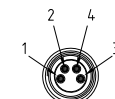
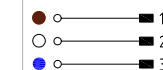
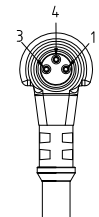
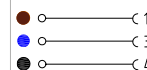
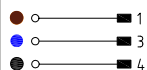
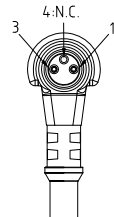
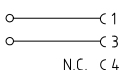
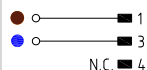
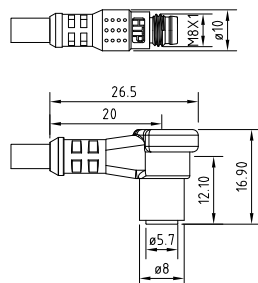
#### Notes:

Connectors available with different features:  
See the general features and codification scheme page  
See the cables list section





#### Technical drawing



#### Product description

|                    |                                                      |                   |                                                      |                   |                                                      |                   |
|--------------------|------------------------------------------------------|-------------------|------------------------------------------------------|-------------------|------------------------------------------------------|-------------------|
| Connector type     | Circular connector with moulded cable                |                   | Circular connector with moulded cable                |                   | Circular connector with moulded cable                |                   |
| Conforms to        | IEC 61076-2-104                                      |                   | IEC 61076-2-104                                      |                   | IEC 61076-2-104                                      |                   |
| Construction type  | M8 A -Coding                                         |                   | M8 A -Coding                                         |                   | M8 A -Coding                                         |                   |
| Description        | Circular connector M8 SNAP series with moulded cable |                   | Circular connector M8 SNAP series with moulded cable |                   | Circular connector M8 SNAP series with moulded cable |                   |
| Part number        | <b>08MW2N1Z</b>                                      | <b>08FY2N1Z-Y</b> | <b>08MW3N1Z</b>                                      | <b>08FY3N1Z-Y</b> | <b>08MW4N1Z</b>                                      | <b>08FY4N1Z-Y</b> |
| Housing type       | Straight 180°                                        | Angled 90°        | Straight 180°                                        | Angled 90°        | Straight 180°                                        | Angled 90°        |
| Cable gland        | Moulded cable                                        |                   | Moulded cable                                        |                   | Moulded cable                                        |                   |
| Contacts type      | Male                                                 | Female            | Male                                                 | Female            | Male                                                 | Female            |
| Number of contacts | 2poles                                               |                   | 3poles                                               |                   | 4poles                                               |                   |
| Housing colour     | Black                                                |                   | Black                                                |                   | Black                                                |                   |

#### Technical data

|                          |                         |  |                         |  |                            |  |
|--------------------------|-------------------------|--|-------------------------|--|----------------------------|--|
| Type of termination      | Contacts to crimp wires |  | Contacts to crimp wires |  | Contacts to crimp wires    |  |
| Contacts material        | Brass + Gold flash      |  | Brass + Gold flash      |  | Brass + Gold flash         |  |
| Coupling nut type        | -                       |  | -                       |  | -                          |  |
| M8 coupling nut material | -                       |  | -                       |  | -                          |  |
| M8 coupling nut torque   | -                       |  | -                       |  | -                          |  |
| Rated voltage            | 50V AC/ 60V DC          |  | 50V AC/ 60V DC          |  | 50V AC/ 60V DC             |  |
| Rated current            | 3A                      |  | 3A                      |  | 3A                         |  |
| O-ring material          | -                       |  | -                       |  | -                          |  |
| Cable type               | PVC/PVC CEI2022         |  | PVC/PVC CEI2022         |  | PVC/PVC CEI2022            |  |
| Cable jacket colour      | Grey RAL 7032           |  | Grey RAL 7032           |  | Grey RAL 7032              |  |
| No. Conductors / Section | 2x0.25mm <sup>2</sup>   |  | 3x0.25mm <sup>2</sup>   |  | 4x0.25mm <sup>2</sup>      |  |
| Conductor colours        | Brown; Blue             |  | Brown; Blue; Black      |  | Brown; White; Blue; Black; |  |
| Cable diameter           | ø3.5mm (±0.3)           |  | ø4mm (±0.3)             |  | ø4.4mm (±0.3)              |  |
| Cable length             | 1m                      |  | 1m                      |  | 1m                         |  |

#### Packaging

|         |            |            |            |
|---------|------------|------------|------------|
| Qty/Bag | 1 pc / bag | 1 pc / bag | 1 pc / bag |
|---------|------------|------------|------------|

#### Other accessories options

See accessories section

#### Notes:

Connectors available with different features:  
See the general features and codification scheme page  
See the cables list section

**Notes:**

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

## • GENERAL FEATURES PANEL MOUNT CONNECTORS:

**Conductor cross section :**  
0.14(26AWG)...0.50mm<sup>2</sup>(20AWG).

**Type of terminations :**  
Solder wires.  
Solder PCB.

**Housing material :**  
Brass + Nickel plated.  
Stainless Steel AISI304  
(upon request).  
Stainless Steel AISI316  
(upon request).

**Internal core material :**  
PA66.

**Operating temperature :**  
-25°C + 90°C.

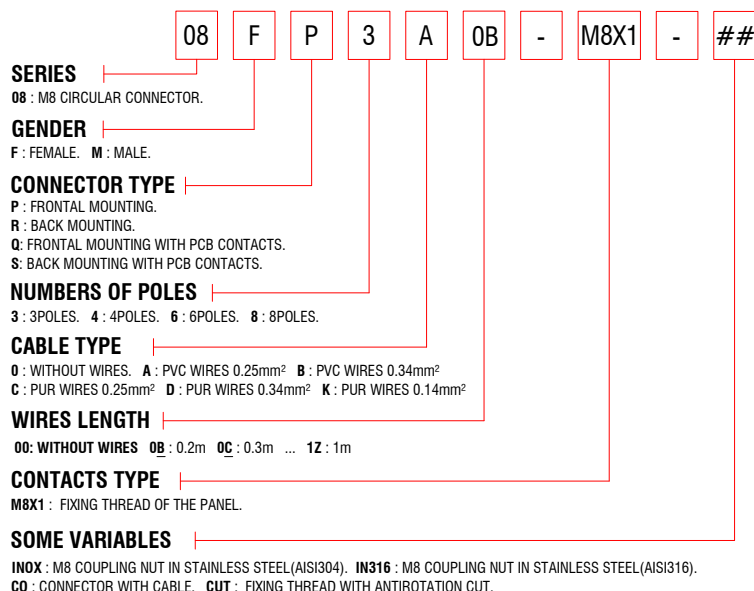
**Fixing system :**  
M8 coupling nut.

**Contact material and treatment :**  
Brass + Gold flash.

**Flammability resistance :**  
UL94-V2 - Standard.

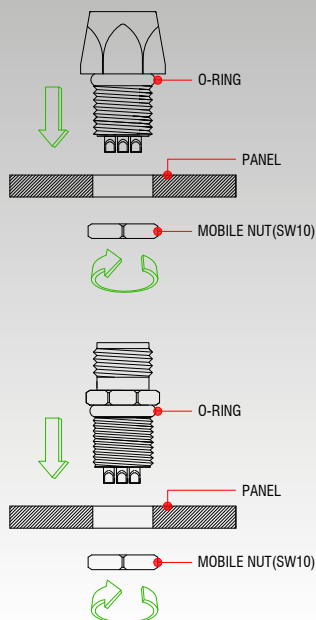
**Max. screw torque IEC60947-1**  
M8 coupling nut torque 0.2 N\*m.

**Protection class :**  
IP 67 (assembled).



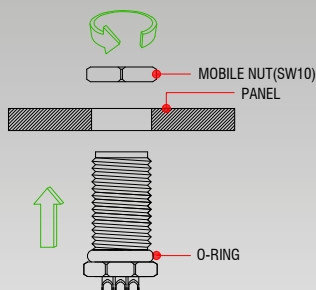
### FRONT MOUNTING:

The type of mounting of the panel connector into the panel is defined with reference to the way the connector is mounted into the panel. In front mounting the mobile nut is in the back side towards the panel.

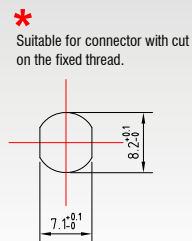
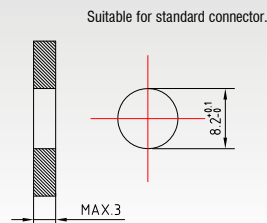


### BACK MOUNTING:

The type of mounting of the panel connector into the panel is defined with reference to the way the connector is mounted into the panel. In back mounting the mobile nut is in the front side towards the panel.



### PANEL FEATURES:

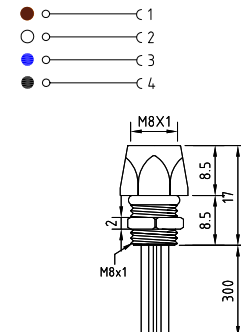
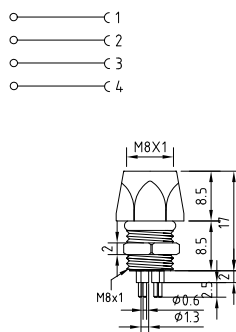
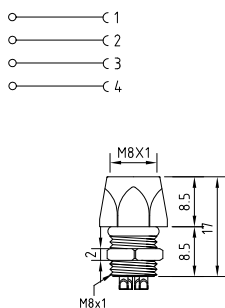
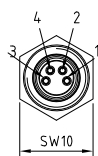




|                                                                                                                         |                                           |                                                                            |                                                                     |
|-------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------|
| <b>Technical drawing</b>                                                                                                |                                           |                                                                            |                                                                     |
|                                                                                                                         |                                           |                                                                            |                                                                     |
| <b>Product description</b>                                                                                              |                                           |                                                                            |                                                                     |
| Connector type                                                                                                          | Circular connector panel mount            | Circular connector panel mount                                             | Circular connector panel mount                                      |
| Conforms to                                                                                                             | IEC 61076-2-104                           | IEC 61076-2-104                                                            | IEC 61076-2-104                                                     |
| Construction type                                                                                                       | M8 A -Coding                              | M8 A -Coding                                                               | M8 A -Coding                                                        |
| Description                                                                                                             | Circular connector M8 series, panel mount | Circular connector M8, panel mount, with contacts suitable for solder PCB. | Circular connector M8 series, panel mount, with PVC soldered wires. |
| Part number                                                                                                             | <b>08FP3000-M8X1</b>                      | <b>08FQ3000-M8X1</b>                                                       | <b>08FP3A0C-M8X1</b>                                                |
| Mounting type                                                                                                           | Frontal side of the panel                 | Frontal side of the panel                                                  | Frontal side of the panel                                           |
| Contacts type                                                                                                           | Female                                    | Female                                                                     | Female                                                              |
| Number of contacts                                                                                                      | 3poles                                    | 3poles                                                                     | 3poles                                                              |
| Fixing Thread                                                                                                           | M8 x 1                                    | M8 x 1                                                                     | M8 x 1                                                              |
| <b>Technical data</b>                                                                                                   |                                           |                                                                            |                                                                     |
| Type of termination                                                                                                     | Contacts to solder wires                  | Contacts to solder PCB                                                     | Contacts to solder wires                                            |
| Contacts material                                                                                                       | Brass + Gold flash                        | Brass + Gold flash                                                         | Brass + Gold flash                                                  |
| Housing /coupling nut material                                                                                          | Brass + Nickel plated                     | Brass + Nickel plated                                                      | Brass + Nickel plated                                               |
| Mobile nut material(SW)                                                                                                 | Brass + Nickel plated (SW10)              | Brass + Nickel plated (SW10)                                               | Brass + Nickel plated (SW10)                                        |
| M8 coupling nut torque                                                                                                  | 0.2 N*m                                   | 0.2 N*m                                                                    | 0.2 N*m                                                             |
| Rated voltage                                                                                                           | 50V AC/ 60V DC                            | 50V AC/ 60V DC                                                             | 50V AC/ 60V DC                                                      |
| Rated current                                                                                                           | 3A                                        | 3A                                                                         | 3A                                                                  |
| O-ring material                                                                                                         | NBR                                       | NBR                                                                        | NBR                                                                 |
| Cable type                                                                                                              | -                                         | -                                                                          | PVC                                                                 |
| No. Conductors / Section                                                                                                | -                                         | -                                                                          | 3x0.25mm <sup>2</sup>                                               |
| Conductor colours                                                                                                       | -                                         | -                                                                          | Brown; Blue; Black                                                  |
| Cable diameter                                                                                                          | -                                         | -                                                                          | -                                                                   |
| Wires length                                                                                                            | -                                         | -                                                                          | 0.3m                                                                |
| <b>Packaging</b>                                                                                                        |                                           |                                                                            |                                                                     |
| Qty/Bag                                                                                                                 | Not defined                               | Not defined                                                                | Not defined                                                         |
| <b>Other accessories options</b>                                                                                        |                                           |                                                                            |                                                                     |
| See accessories section                                                                                                 |                                           |                                                                            |                                                                     |
| <b>Notes:</b><br>Connectors available with different features:<br>See the general features and codification scheme page |                                           |                                                                            |                                                                     |



#### Technical drawing



#### Product description

|                    |                                          |                                                                          |                                                                    |
|--------------------|------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------|
| Connector type     | Circular connector panel mount           | Circular connector panel mount                                           | Circular connector panel mount                                     |
| Conforms to        | IEC 61076-2-104                          | IEC 61076-2-104                                                          | IEC 61076-2-104                                                    |
| Construction type  | M8 A -Coding                             | M8 A -Coding                                                             | M8 A -Coding                                                       |
| Description        | Circular connector M8 series,panel mount | Circular connector M8,panel mount,with contacts suitable for solder PCB. | Circular connector M8 series,panel mount, with PVC soldered wires. |
| Part number        | <b>08FP4000-M8X1</b>                     | <b>08FQ4000-M8X1</b>                                                     | <b>08FP4A0C-M8X1</b>                                               |
| Mounting type      | Frontal side of the panel                | Frontal side of the panel                                                | Frontal side of the panel                                          |
| Contacts type      | Female                                   | Female                                                                   | Female                                                             |
| Number of contacts | 4poles                                   | 4poles                                                                   | 4poles                                                             |
| Fixing Thread      | M8 x 1                                   | M8 x 1                                                                   | M8 x 1                                                             |

#### Technical data

|                                |                              |                              |                              |
|--------------------------------|------------------------------|------------------------------|------------------------------|
| Type of termination            | Contacts to solder wires     | Contacts to solder PCB       | Contacts to solder wires     |
| Contacts material              | Brass + Gold flash           | Brass + Gold flash           | Brass + Gold flash           |
| Housing /coupling nut material | Brass + Nickel plated        | Brass + Nickel plated        | Brass + Nickel plated        |
| Mobile nut material(SW)        | Brass + Nickel plated (SW10) | Brass + Nickel plated (SW10) | Brass + Nickel plated (SW10) |
| M8 coupling nut torque         | 0.2 N*m                      | 0.2 N*m                      | 0.2 N*m                      |
| Rated voltage                  | 50V AC/ 60V DC               | 50V AC/ 60V DC               | 50V AC/ 60V DC               |
| Rated current                  | 3A                           | 3A                           | 3A                           |
| O-ring material                | NBR                          | NBR                          | NBR                          |
| Cable type                     | -                            | -                            | PVC                          |
| No.Conductors / Section        | -                            | -                            | 4x0.25mm <sup>2</sup>        |
| Conductor colours              | -                            | -                            | Brown; White; Blue; Black    |
| Cable diameter                 | -                            | -                            | -                            |
| Wires length                   | -                            | -                            | 0.3m                         |

#### Packaging

|         |             |             |             |
|---------|-------------|-------------|-------------|
| Qty/Bag | Not defined | Not defined | Not defined |
|---------|-------------|-------------|-------------|

#### Other accessories options

See accessories section

#### Notes:

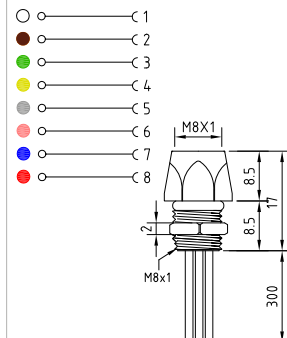
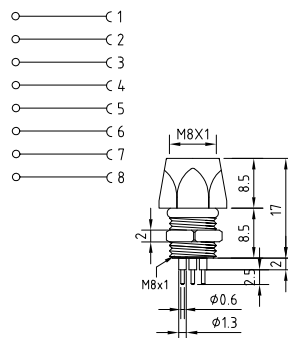
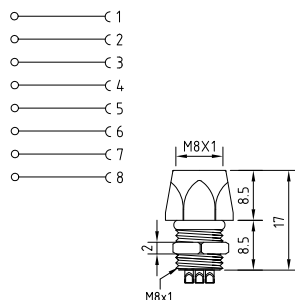
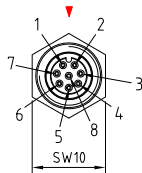
Connectors available with different features:  
See the general features and codification scheme page



|                                                                                                                         |                                          |                                                                          |                                                                    |
|-------------------------------------------------------------------------------------------------------------------------|------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------|
| <b>Technical drawing</b>                                                                                                |                                          |                                                                          |                                                                    |
|                                                                                                                         |                                          |                                                                          |                                                                    |
| <b>Product description</b>                                                                                              |                                          |                                                                          |                                                                    |
| Connector type                                                                                                          | Circular connector panel mount           | Circular connector panel mount                                           | Circular connector panel mount                                     |
| Conforms to                                                                                                             | IEC 61076-2-104                          | IEC 61076-2-104                                                          | IEC 61076-2-104                                                    |
| Construction type                                                                                                       | M8 A -Coding                             | M8 A -Coding                                                             | M8 A -Coding                                                       |
| Description                                                                                                             | Circular connector M8 series,panel mount | Circular connector M8,panel mount,with contacts suitable for solder PCB. | Circular connector M8 series,panel mount, with PVC soldered wires. |
| Part number                                                                                                             | <b>08FP6000-M8X1</b>                     | <b>08FQ6000-M8X1</b>                                                     | <b>08FP6K0C-M8X1</b>                                               |
| Mounting type                                                                                                           | Frontal side of the panel                | Frontal side of the panel                                                | Frontal side of the panel                                          |
| Contacts type                                                                                                           | Female                                   | Female                                                                   | Female                                                             |
| Number of contacts                                                                                                      | 6poles                                   | 6poles                                                                   | 6poles                                                             |
| Fixing Thread                                                                                                           | M8 x 1                                   | M8 x 1                                                                   | M8 x 1                                                             |
| <b>Technical data</b>                                                                                                   |                                          |                                                                          |                                                                    |
| Type of termination                                                                                                     | Contacts to solder wires                 | Contacts to solder PCB                                                   | Contacts to solder wires                                           |
| Contacts material                                                                                                       | Brass + Gold flash                       | Brass + Gold flash                                                       | Brass + Gold flash                                                 |
| Housing /coupling nut material                                                                                          | Brass + Nickel plated                    | Brass + Nickel plated                                                    | Brass + Nickel plated                                              |
| Mobile nut material(SW)                                                                                                 | Brass + Nickel plated (SW10)             | Brass + Nickel plated (SW10)                                             | Brass + Nickel plated (SW10)                                       |
| M8 coupling nut torque                                                                                                  | 0.2 N*m                                  | 0.2 N*m                                                                  | 0.2 N*m                                                            |
| Rated voltage                                                                                                           | 30V AC/DC                                | 30V AC/DC                                                                | 30V AC/DC                                                          |
| Rated current                                                                                                           | 1.5A                                     | 1.5A                                                                     | 1.5A                                                               |
| O-ring material                                                                                                         | NBR                                      | NBR                                                                      | NBR                                                                |
| Cable type                                                                                                              | -                                        | -                                                                        | PVC                                                                |
| No.Conductors / Section                                                                                                 | -                                        | -                                                                        | 6x0.14mm <sup>2</sup>                                              |
| Conductor colours                                                                                                       | -                                        | -                                                                        | Brown; White; Blue; Black; Grey; Pink                              |
| Cable diameter                                                                                                          | -                                        | -                                                                        | -                                                                  |
| Wires lenght                                                                                                            | -                                        | -                                                                        | 0.3m                                                               |
| <b>Packaging</b>                                                                                                        |                                          |                                                                          |                                                                    |
| Qty/Bag                                                                                                                 | Not defined                              | Not defined                                                              | Not defined                                                        |
| <b>Other accessories options</b>                                                                                        |                                          |                                                                          |                                                                    |
| See accessories section                                                                                                 |                                          |                                                                          |                                                                    |
| <b>Notes:</b><br>Connectors available with different feautres:<br>See the general features and codification scheme page |                                          |                                                                          |                                                                    |



#### Technical drawing



#### Product description

|                    |                                           |                                                                            |                                                                     |
|--------------------|-------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------|
| Connector type     | Circular connector panel mount            | Circular connector panel mount                                             | Circular connector panel mount                                      |
| Conforms to        | IEC 61076-2-104                           | IEC 61076-2-104                                                            | IEC 61076-2-104                                                     |
| Construction type  | M8 A -Coding                              | M8 A -Coding                                                               | M8 A -Coding                                                        |
| Description        | Circular connector M8 series, panel mount | Circular connector M8, panel mount, with contacts suitable for solder PCB. | Circular connector M8 series, panel mount, with PVC soldered wires. |
| Part number        | <b>08FP8000-M8X1</b>                      | <b>08FQ8000-M8X1</b>                                                       | <b>08FP8K0C-M8X1</b>                                                |
| Mounting type      | Frontal side of the panel                 | Frontal side of the panel                                                  | Frontal side of the panel                                           |
| Contacts type      | Female                                    | Female                                                                     | Female                                                              |
| Number of contacts | 8poles                                    | 8poles                                                                     | 8poles                                                              |
| Fixing Thread      | M8 x 1                                    | M8 x 1                                                                     | M8 x 1                                                              |

#### Technical data

|                                |                              |                              |                                                    |
|--------------------------------|------------------------------|------------------------------|----------------------------------------------------|
| Type of termination            | Contacts to solder wires     | Contacts to solder PCB       | Contacts to solder wires                           |
| Contacts material              | Brass + Gold flash           | Brass + Gold flash           | Brass + Gold flash                                 |
| Housing /coupling nut material | Brass + Nickel plated        | Brass + Nickel plated        | Brass + Nickel plated                              |
| Mobile nut material(SW)        | Brass + Nickel plated (SW10) | Brass + Nickel plated (SW10) | Brass + Nickel plated (SW10)                       |
| M8 coupling nut torque         | 0.2 N*m                      | 0.2 N*m                      | 0.2 N*m                                            |
| Rated voltage                  | 30V AC/DC                    | 30V AC/DC                    | 30V AC/DC                                          |
| Rated current                  | 1.5A                         | 1.5A                         | 1.5A                                               |
| O-ring material                | NBR                          | NBR                          | NBR                                                |
| Cable type                     | -                            | -                            | PVC                                                |
| No. Conductors / Section       | -                            | -                            | 8x0.14mm <sup>2</sup>                              |
| Conductor colours              | -                            | -                            | White; Brown; Green; Yellow; Grey; Pink; Blue; Red |
| Cable diameter                 | -                            | -                            | -                                                  |
| Wires lenght                   | -                            | -                            | 0.3m                                               |

#### Packaging

|         |             |             |             |
|---------|-------------|-------------|-------------|
| Qty/Bag | Not defined | Not defined | Not defined |
|---------|-------------|-------------|-------------|

#### Other accessories options

See accessories section

#### Notes:

Connectors available with different features:  
See the general features and codification scheme page

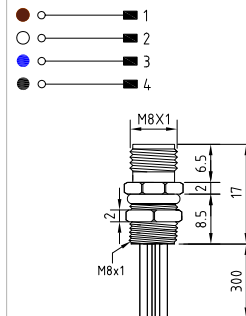
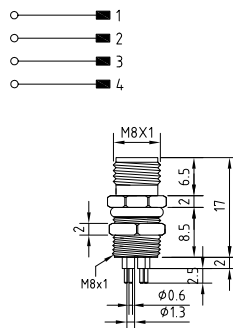
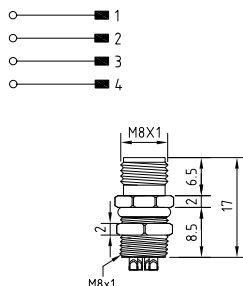
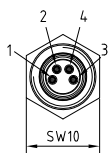


|                                                                                                                         |                                          |                                                                          |                                                                    |
|-------------------------------------------------------------------------------------------------------------------------|------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------|
| <b>Technical drawing</b>                                                                                                |                                          |                                                                          |                                                                    |
|                                                                                                                         |                                          |                                                                          |                                                                    |
| <b>Product description</b>                                                                                              |                                          |                                                                          |                                                                    |
| Connector type                                                                                                          | Circular connector panel mount           | Circular connector panel mount                                           | Circular connector panel mount                                     |
| Conforms to                                                                                                             | IEC 61076-2-104                          | IEC 61076-2-104                                                          | IEC 61076-2-104                                                    |
| Construction type                                                                                                       | M8 A -Coding                             | M8 A -Coding                                                             | M8 A -Coding                                                       |
| Description                                                                                                             | Circular connector M8 series,panel mount | Circular connector M8,panel mount,with contacts suitable for solder PCB. | Circular connector M8 series,panel mount, with PVC soldered wires. |
| Part number                                                                                                             | <b>O8MP3000-M8X1</b>                     | <b>O8MQ3000-M8X1</b>                                                     | <b>O8MP3A0C-M8X1</b>                                               |
| Mounting type                                                                                                           | Frontal side of the panel                | Frontal side of the panel                                                | Frontal side of the panel                                          |
| Contacts type                                                                                                           | Male                                     | Male                                                                     | Male                                                               |
| Number of contacts                                                                                                      | 3poles                                   | 3poles                                                                   | 3poles                                                             |
| Fixing Thread                                                                                                           | M8 x 1                                   | M8 x 1                                                                   | M8 x 1                                                             |
| <b>Technical data</b>                                                                                                   |                                          |                                                                          |                                                                    |
| Type of termination                                                                                                     | Contacts to solder wires                 | Contacts to solder wires                                                 | Contacts to solder wires                                           |
| Contacts material                                                                                                       | Brass + Gold flash                       | Brass + Gold flash                                                       | Brass + Gold flash                                                 |
| Housing /coupling nut material                                                                                          | Brass + Nickel plated                    | Brass + Nickel plated                                                    | Brass + Nickel plated                                              |
| Mobile nut material(SW)                                                                                                 | Brass + Nickel plated (SW10)             | Brass + Nickel plated (SW10)                                             | Brass + Nickel plated (SW10)                                       |
| M8 coupling nut torque                                                                                                  | 0.2 N*m                                  | 0.2 N*m                                                                  | 0.2 N*m                                                            |
| Rated voltage                                                                                                           | 50V AC/ 60V DC                           | 50V AC/ 60V DC                                                           | 50V AC/ 60V DC                                                     |
| Rated current                                                                                                           | 3A                                       | 3A                                                                       | 3A                                                                 |
| O-ring material                                                                                                         | NBR                                      | NBR                                                                      | NBR                                                                |
| Cable type                                                                                                              | -                                        | -                                                                        | PVC                                                                |
| No. Conductors / Section                                                                                                | -                                        | -                                                                        | 3x0.25mm <sup>2</sup>                                              |
| Conductor colours                                                                                                       | -                                        | -                                                                        | Brown; Blue; Black                                                 |
| Cable diameter                                                                                                          | -                                        | -                                                                        | -                                                                  |
| Wires length                                                                                                            | -                                        | -                                                                        | 0.3m                                                               |
| <b>Packaging</b>                                                                                                        |                                          |                                                                          |                                                                    |
| Qty/Bag                                                                                                                 | Not defined                              | Not defined                                                              | Not defined                                                        |
| <b>Other accessories options</b>                                                                                        |                                          |                                                                          |                                                                    |
| See accessories section                                                                                                 |                                          |                                                                          |                                                                    |
| <b>Notes:</b><br>Connectors available with different feautres:<br>See the general features and codification scheme page |                                          |                                                                          |                                                                    |





#### Technical drawing



#### Product description

|                    |                                          |                                                                          |                                                                    |
|--------------------|------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------|
| Connector type     | Circular connector panel mount           | Circular connector panel mount                                           | Circular connector panel mount                                     |
| Conforms to        | IEC 61076-2-104                          | IEC 61076-2-104                                                          | IEC 61076-2-104                                                    |
| Construction type  | M8 A -Coding                             | M8 A -Coding                                                             | M8 A -Coding                                                       |
| Description        | Circular connector M8 series,panel mount | Circular connector M8,panel mount,with contacts suitable for solder PCB. | Circular connector M8 series,panel mount, with PVC soldered wires. |
| Part number        | <b>08MP4000-M8X1</b>                     | <b>08MQ4000-M8X1</b>                                                     | <b>08MP4A0C-M8X1</b>                                               |
| Mounting type      | Frontal side of the panel                | Frontal side of the panel                                                | Frontal side of the panel                                          |
| Contacts type      | Male                                     | Male                                                                     | Male                                                               |
| Number of contacts | 4poles                                   | 4poles                                                                   | 4poles                                                             |
| Fixing Thread      | M8 x 1                                   | M8 x 1                                                                   | M8 x 1                                                             |

#### Technical data

|                                |                              |                              |                              |
|--------------------------------|------------------------------|------------------------------|------------------------------|
| Type of termination            | Contacts to solder wires     | Contacts to solder wires     | Contacts to solder wires     |
| Contacts material              | Brass + Gold flash           | Brass + Gold flash           | Brass + Gold flash           |
| Housing /coupling nut material | Brass + Nickel plated        | Brass + Nickel plated        | Brass + Nickel plated        |
| Mobile nut material(SW)        | Brass + Nickel plated (SW10) | Brass + Nickel plated (SW10) | Brass + Nickel plated (SW10) |
| M8 coupling nut torque         | 0.2 N*m                      | 0.2 N*m                      | 0.2 N*m                      |
| Rated voltage                  | 50V AC/ 60V DC               | 50V AC/ 60V DC               | 50V AC/ 60V DC               |
| Rated current                  | 3A                           | 3A                           | 3A                           |
| O-ring material                | NBR                          | NBR                          | NBR                          |
| Cable type                     | -                            | -                            | PVC                          |
| No.Conductors / Section        | -                            | -                            | 4x0.25mm <sup>2</sup>        |
| Conductor colours              | -                            | -                            | Brown; White; Blue; Black    |
| Cable diameter                 | -                            | -                            | -                            |
| Wires length                   | -                            | -                            | 0.3m                         |

#### Packaging

|         |             |             |             |
|---------|-------------|-------------|-------------|
| Qty/Bag | Not defined | Not defined | Not defined |
|---------|-------------|-------------|-------------|

#### Other accessories options

See accessories section

#### Notes:

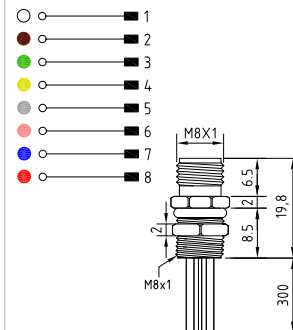
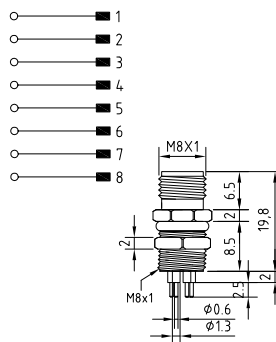
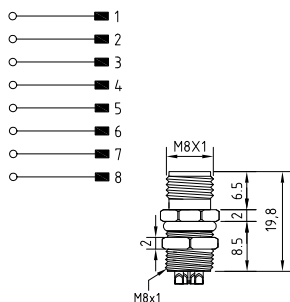
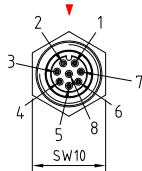
Connectors available with different features:  
See the general features and codification scheme page



|                                                                                                                          |                                          |                                                                          |                                                                    |
|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------|
| <b>Technical drawing</b> <div> </div>                                                                                    |                                          |                                                                          |                                                                    |
| <b>Product description</b>                                                                                               |                                          |                                                                          |                                                                    |
| Connector type                                                                                                           | Circular connector panel mount           | Circular connector panel mount                                           | Circular connector panel mount                                     |
| Conforms to                                                                                                              | IEC 61076-2-104                          | IEC 61076-2-104                                                          | IEC 61076-2-104                                                    |
| Construction type                                                                                                        | M8 A -Coding                             | M8 A -Coding                                                             | M8 A -Coding                                                       |
| Description                                                                                                              | Circular connector M8 series,panel mount | Circular connector M8,panel mount,with contacts suitable for solder PCB. | Circular connector M8 series,panel mount, with PVC soldered wires. |
| Part number                                                                                                              | <b>08MP6000-M8X1</b>                     | <b>08MQ6000-M8X1</b>                                                     | <b>08MP6K0C-M8X1</b>                                               |
| Mounting type                                                                                                            | Frontal side of the panel                | Frontal side of the panel                                                | Frontal side of the panel                                          |
| Contacts type                                                                                                            | Male                                     | Male                                                                     | Male                                                               |
| Number of contacts                                                                                                       | 6poles                                   | 6poles                                                                   | 6poles                                                             |
| Fixing Thread                                                                                                            | M8 x 1                                   | M8 x 1                                                                   | M8 x 1                                                             |
| <b>Technical data</b>                                                                                                    |                                          |                                                                          |                                                                    |
| Type of termination                                                                                                      | Contacts to solder wires                 | Contacts to solder wires                                                 | Contacts to solder wires                                           |
| Contacts material                                                                                                        | Brass + Gold flash                       | Brass + Gold flash                                                       | Brass + Gold flash                                                 |
| Housing /coupling nut material                                                                                           | Brass + Nickel plated                    | Brass + Nickel plated                                                    | Brass + Nickel plated                                              |
| Mobile nut material(SW)                                                                                                  | Brass + Nickel plated (SW10)             | Brass + Nickel plated (SW10)                                             | Brass + Nickel plated (SW10)                                       |
| M8 coupling nut torque                                                                                                   | 0.2 N*m                                  | 0.2 N*m                                                                  | 0.2 N*m                                                            |
| Rated voltage                                                                                                            | 30V AC/DC                                | 30V AC/DC                                                                | 30V AC/DC                                                          |
| Rated current                                                                                                            | 1.5A                                     | 1.5A                                                                     | 1.5A                                                               |
| O-ring material                                                                                                          | NBR                                      | NBR                                                                      | NBR                                                                |
| Cable type                                                                                                               | -                                        | -                                                                        | PVC                                                                |
| No.Conductors / Section                                                                                                  | -                                        | -                                                                        | 6x0.14mm <sup>2</sup>                                              |
| Conductor colours                                                                                                        | -                                        | -                                                                        | Brown; White; Blue; Black; Grey; Pink                              |
| Cable diameter                                                                                                           | -                                        | -                                                                        | -                                                                  |
| Wires length                                                                                                             | -                                        | -                                                                        | 0.3m                                                               |
| <b>Packaging</b>                                                                                                         |                                          |                                                                          |                                                                    |
| Qty/Bag                                                                                                                  | Not defined                              | Not defined                                                              | Not defined                                                        |
| <b>Other accessories options</b>                                                                                         |                                          |                                                                          |                                                                    |
| See accessories section                                                                                                  |                                          |                                                                          |                                                                    |
| <b>Notes:</b><br>Connectors available with different feautures:<br>See the general features and codification scheme page |                                          |                                                                          |                                                                    |



#### Technical drawing



#### Product description

|                    |                                           |                                                                            |                                                                     |
|--------------------|-------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------|
| Connector type     | Circular connector panel mount            | Circular connector panel mount                                             | Circular connector panel mount                                      |
| Conforms to        | IEC 61076-2-104                           | IEC 61076-2-104                                                            | IEC 61076-2-104                                                     |
| Construction type  | M8 A -Coding                              | M8 A -Coding                                                               | M8 A -Coding                                                        |
| Description        | Circular connector M8 series, panel mount | Circular connector M8, panel mount, with contacts suitable for solder PCB. | Circular connector M8 series, panel mount, with PVC soldered wires. |
| Part number        | <b>O8MP8000-M8X1</b>                      | <b>O8MQ8000-M8X1</b>                                                       | <b>O8MP8K0C-M8X1</b>                                                |
| Mounting type      | Frontal side of the panel                 | Frontal side of the panel                                                  | Frontal side of the panel                                           |
| Contacts type      | Male                                      | Male                                                                       | Male                                                                |
| Number of contacts | 8poles                                    | 8poles                                                                     | 8poles                                                              |
| Fixing Thread      | M8 x 1                                    | M8 x 1                                                                     | M8 x 1                                                              |

#### Technical data

|                                |                              |                              |                                                    |
|--------------------------------|------------------------------|------------------------------|----------------------------------------------------|
| Type of termination            | Contacts to solder wires     | Contacts to solder wires     | Contacts to solder wires                           |
| Contacts material              | Brass + Gold flash           | Brass + Gold flash           | Brass + Gold flash                                 |
| Housing /coupling nut material | Brass + Nickel plated        | Brass + Nickel plated        | Brass + Nickel plated                              |
| Mobile nut material(SW)        | Brass + Nickel plated (SW10) | Brass + Nickel plated (SW10) | Brass + Nickel plated (SW10)                       |
| M8 coupling nut torque         | 0.2 N*m                      | 0.2 N*m                      | 0.2 N*m                                            |
| Rated voltage                  | 30V AC/DC                    | 30V AC/DC                    | 30V AC/DC                                          |
| Rated current                  | 1.5A                         | 1.5A                         | 1.5A                                               |
| O-ring material                | NBR                          | NBR                          | NBR                                                |
| Cable type                     | -                            | -                            | PVC                                                |
| No. Conductors / Section       | -                            | -                            | 8x0.14mm <sup>2</sup>                              |
| Conductor colours              | -                            | -                            | White; Brown; Green; Yellow; Grey; Pink; Blue; Red |
| Cable diameter                 | -                            | -                            | -                                                  |
| Wireslength                    | -                            | -                            | 0.3m                                               |

#### Packaging

|         |             |             |             |
|---------|-------------|-------------|-------------|
| Qty/Bag | Not defined | Not defined | Not defined |
|---------|-------------|-------------|-------------|

#### Other accessories options

See accessories section

#### Notes:

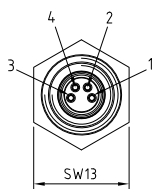
Connectors available with different features:  
See the general features and codification scheme page



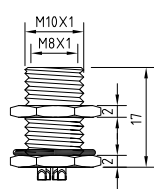
|                                                                                                                         |                                          |                                                                          |                                                                    |
|-------------------------------------------------------------------------------------------------------------------------|------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------|
| <b>Technical drawing</b>                                                                                                |                                          |                                                                          |                                                                    |
|                                                                                                                         |                                          |                                                                          |                                                                    |
| <b>Product description</b>                                                                                              |                                          |                                                                          |                                                                    |
| Connector type                                                                                                          | Circular connector panel mount           | Circular connector panel mount                                           | Circular connector panel mount                                     |
| Conforms to                                                                                                             | IEC 61076-2-104                          | IEC 61076-2-104                                                          | IEC 61076-2-104                                                    |
| Construction type                                                                                                       | M8 A -Coding                             | M8 A -Coding                                                             | M8 A -Coding                                                       |
| Description                                                                                                             | Circular connector M8 series,panel mount | Circular connector M8,panel mount,with contacts suitable for solder PCB. | Circular connector M8 series,panel mount, with PVC soldered wires. |
| Part number                                                                                                             | <b>O8FR3000-M10X1</b>                    | <b>O8FS3000-M10X1</b>                                                    | <b>O8FR3A0C-M10X1</b>                                              |
| Mounting type                                                                                                           | Back side of the panel                   | Back side of the panel                                                   | Back side of the panel                                             |
| Contacts type                                                                                                           | Female                                   | Female                                                                   | Female                                                             |
| Number of contacts                                                                                                      | 3poles                                   | 3poles                                                                   | 3poles                                                             |
| Fixing Thread                                                                                                           | M10 x 1                                  | M10 x 1                                                                  | M10 x 1                                                            |
| <b>Technical data</b>                                                                                                   |                                          |                                                                          |                                                                    |
| Type of termination                                                                                                     | Contacts to solder wires                 | Contacts to solder PCB                                                   | Contacts to solder wires                                           |
| Contacts material                                                                                                       | Brass + Gold flash                       | Brass + Gold flash                                                       | Brass + Gold flash                                                 |
| Housing /coupling nut material                                                                                          | Brass +Nickel plated                     | Brass +Nickel plated                                                     | Brass +Nickel plated                                               |
| Mobile nut material(SW)                                                                                                 | Brass +Nickel plated (SW13)              | Brass +Nickel plated (SW13)                                              | Brass +Nickel plated (SW13)                                        |
| M8 coupling nut torque                                                                                                  | 0.2 N*m                                  | 0.2 N*m                                                                  | 0.2 N*m                                                            |
| Rated voltage                                                                                                           | 50V AC/ 60V DC                           | 50V AC/ 60V DC                                                           | 50V AC/ 60V DC                                                     |
| Rated current                                                                                                           | 3A                                       | 3A                                                                       | 3A                                                                 |
| O-ring material                                                                                                         | NBR                                      | NBR                                                                      | NBR                                                                |
| Cable type                                                                                                              | -                                        | -                                                                        | PVC                                                                |
| No.Conductors / Section                                                                                                 | -                                        | -                                                                        | 3x0.25mm <sup>2</sup>                                              |
| Conductor colours                                                                                                       | -                                        | -                                                                        | Brown; Blue; Black                                                 |
| Cable diameter                                                                                                          | -                                        | -                                                                        | -                                                                  |
| Wires length                                                                                                            | -                                        | -                                                                        | 0.3m                                                               |
| <b>Packaging</b>                                                                                                        |                                          |                                                                          |                                                                    |
| Qty/Bag                                                                                                                 | Not defined                              | Not defined                                                              | Not defined                                                        |
| <b>Other accessories options</b>                                                                                        |                                          |                                                                          |                                                                    |
| See accessories section                                                                                                 |                                          |                                                                          |                                                                    |
| <b>Notes:</b><br>Connectors available with different features:<br>See the general features and codification scheme page |                                          |                                                                          |                                                                    |



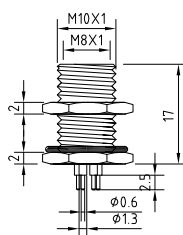
### Technical drawing



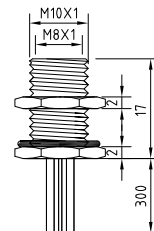
- — C 1
- — C 2
- — C 3
- — C 4



- — C 1
- — C 2
- — C 3
- — C 4



- ○ — C 1
- ○ — C 2
- ○ — C 3
- ○ — C 4



### Product description

|                    |                                          |                                                                          |                                                                    |
|--------------------|------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------|
| Connector type     | Circular connector panel mount           | Circular connector panel mount                                           | Circular connector panel mount                                     |
| Conforms to        | IEC 61076-2-104                          | IEC 61076-2-104                                                          | IEC 61076-2-104                                                    |
| Construction type  | M8 A -Coding                             | M8 A -Coding                                                             | M8 A -Coding                                                       |
| Description        | Circular connector M8 series,panel mount | Circular connector M8,panel mount,with contacts suitable for solder PCB. | Circular connector M8 series,panel mount, with PVC soldered wires. |
| Part number        | <b>O8FR4000-M10X1</b>                    | <b>O8FS4000-M10X1</b>                                                    | <b>O8FR4A0C-M10X1</b>                                              |
| Mounting type      | Back side of the panel                   | Back side of the panel                                                   | Back side of the panel                                             |
| Contacts type      | Female                                   | Female                                                                   | Female                                                             |
| Number of contacts | 4poles                                   | 4poles                                                                   | 4poles                                                             |
| Fixing Thread      | M10 x 1                                  | M10 x 1                                                                  | M10 x 1                                                            |

### Technical data

|                                |                              |                              |                              |
|--------------------------------|------------------------------|------------------------------|------------------------------|
| Type of termination            | Contacts to solder wires     | Contacts to solder PCB       | Contacts to solder wires     |
| Contacts material              | Brass + Gold flash           | Brass + Gold flash           | Brass + Gold flash           |
| Housing /coupling nut material | Brass + Nickel plated        | Brass + Nickel plated        | Brass + Nickel plated        |
| Mobile nut material(SW)        | Brass + Nickel plated (SW13) | Brass + Nickel plated (SW13) | Brass + Nickel plated (SW13) |
| M8 coupling nut torque         | 0.2 N*m                      | 0.2 N*m                      | 0.2 N*m                      |
| Rated voltage                  | 50V AC/ 60V DC               | 50V AC/ 60V DC               | 50V AC/ 60V DC               |
| Rated current                  | 3A                           | 3A                           | 3A                           |
| O-ring material                | NBR                          | NBR                          | NBR                          |
| Cable type                     | -                            | -                            | PVC                          |
| No.Conductors / Section        | -                            | -                            | 4x0.25mm <sup>2</sup>        |
| Conductor colours              | -                            | -                            | Brown; White; Blue; Black    |
| Cable diameter                 | -                            | -                            | -                            |
| Wires length                   | -                            | -                            | 0.3m                         |

### Packaging

|         |             |             |             |
|---------|-------------|-------------|-------------|
| Qty/Bag | Not defined | Not defined | Not defined |
|---------|-------------|-------------|-------------|

### Other accessories options

See accessories section

### Notes:

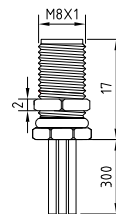
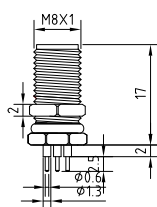
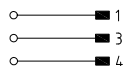
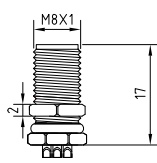
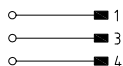
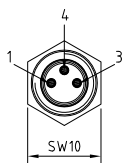
Connectors available with different features:  
See the general features and codification scheme page



|                                                                                                                         |                                          |                                                                          |                                                                    |
|-------------------------------------------------------------------------------------------------------------------------|------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------|
| <b>Technical drawing</b>                                                                                                |                                          |                                                                          |                                                                    |
|                                                                                                                         |                                          |                                                                          |                                                                    |
| <b>Product description</b>                                                                                              |                                          |                                                                          |                                                                    |
| Connector type                                                                                                          | Circular connector panel mount           | Circular connector panel mount                                           | Circular connector panel mount                                     |
| Conforms to                                                                                                             | IEC 61076-2-104                          | IEC 61076-2-104                                                          | IEC 61076-2-104                                                    |
| Construction type                                                                                                       | M8 A -Coding                             | M8 A -Coding                                                             | M8 A -Coding                                                       |
| Description                                                                                                             | Circular connector M8 series,panel mount | Circular connector M8,panel mount,with contacts suitable for solder PCB. | Circular connector M8 series,panel mount, with PVC soldered wires. |
| Part number                                                                                                             | <b>08FR6000-M10X1</b>                    | <b>08FS6000-M10X1</b>                                                    | <b>08FR6K0C-M10X1</b>                                              |
| Mounting type                                                                                                           | Back side of the panel                   | Back side of the panel                                                   | Back side of the panel                                             |
| Contacts type                                                                                                           | Female                                   | Female                                                                   | Female                                                             |
| Number of contacts                                                                                                      | 6poles                                   | 6poles                                                                   | 6poles                                                             |
| Fixing Thread                                                                                                           | M10 x 1                                  | M10 x 1                                                                  | M10 x 1                                                            |
| <b>Technical data</b>                                                                                                   |                                          |                                                                          |                                                                    |
| Type of termination                                                                                                     | Contacts to solder wires                 | Contacts to solder PCB                                                   | Contacts to solder wires                                           |
| Contacts material                                                                                                       | Brass + Gold flash                       | Brass + Gold flash                                                       | Brass + Gold flash                                                 |
| Housing /coupling nut material                                                                                          | Brass +Nickel plated                     | Brass +Nickel plated                                                     | Brass +Nickel plated                                               |
| Mobile nut material(SW)                                                                                                 | Brass +Nickel plated (SW13)              | Brass +Nickel plated (SW13)                                              | Brass +Nickel plated (SW13)                                        |
| M8 coupling nut torque                                                                                                  | 0.2 N*m                                  | 0.2 N*m                                                                  | 0.2 N*m                                                            |
| Rated voltage                                                                                                           | 30V AC/DC                                | 30V AC/DC                                                                | 30V AC/DC                                                          |
| Rated current                                                                                                           | 1.5A                                     | 1.5A                                                                     | 1.5A                                                               |
| O-ring material                                                                                                         | NBR                                      | NBR                                                                      | NBR                                                                |
| Cable type                                                                                                              | -                                        | -                                                                        | PVC                                                                |
| No. Conductors / Section                                                                                                | -                                        | -                                                                        | 6x0.14mm <sup>2</sup>                                              |
| Conductor colours                                                                                                       | -                                        | -                                                                        | Brown; White; Blue; Black; Grey; Pink                              |
| Cable diameter                                                                                                          | -                                        | -                                                                        | -                                                                  |
| Wires length                                                                                                            | -                                        | -                                                                        | 0.3m                                                               |
| <b>Packaging</b>                                                                                                        |                                          |                                                                          |                                                                    |
| Qty/Bag                                                                                                                 | Not defined                              | Not defined                                                              | Not defined                                                        |
| <b>Other accessories options</b>                                                                                        |                                          |                                                                          |                                                                    |
| See accessories section                                                                                                 |                                          |                                                                          |                                                                    |
| <b>Notes:</b><br>Connectors available with different feautres:<br>See the general features and codification scheme page |                                          |                                                                          |                                                                    |



#### Technical drawing



#### Product description

|                    |                                          |                                                                          |                                                                    |
|--------------------|------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------|
| Connector type     | Circular connector panel mount           | Circular connector panel mount                                           | Circular connector panel mount                                     |
| Conforms to        | IEC 61076-2-104                          | IEC 61076-2-104                                                          | IEC 61076-2-104                                                    |
| Construction type  | M8 A -Coding                             | M8 A -Coding                                                             | M8 A -Coding                                                       |
| Description        | Circular connector M8 series,panel mount | Circular connector M8,panel mount,with contacts suitable for solder PCB. | Circular connector M8 series,panel mount, with PVC soldered wires. |
| Part number        | <b>08MR3000-M8X1</b>                     | <b>08MS3000-M8X1</b>                                                     | <b>08MR3A0C-M8X1</b>                                               |
| Mounting type      | Back side of the panel                   | Back side of the panel                                                   | Back side of the panel                                             |
| Contacts type      | Male                                     | Male                                                                     | Male                                                               |
| Number of contacts | 3poles                                   | 3poles                                                                   | 3poles                                                             |
| Fixing Thread      | M8 x 1                                   | M8 x 1                                                                   | M8 x 1                                                             |

#### Technical data

|                                |                              |                              |                              |
|--------------------------------|------------------------------|------------------------------|------------------------------|
| Type of termination            | Contacts to solder wires     | Contacts to solder wires     | Contacts to solder wires     |
| Contacts material              | Brass + Gold flash           | Brass + Gold flash           | Brass + Gold flash           |
| Housing /coupling nut material | Brass + Nickel plated        | Brass + Nickel plated        | Brass + Nickel plated        |
| Mobile nut material(SW)        | Brass + Nickel plated (SW10) | Brass + Nickel plated (SW10) | Brass + Nickel plated (SW10) |
| M8 coupling nut torque         | 0.2 N*m                      | 0.2 N*m                      | 0.2 N*m                      |
| Rated voltage                  | 50V AC/ 60V DC               | 50V AC/ 60V DC               | 50V AC/ 60V DC               |
| Rated current                  | 3A                           | 3A                           | 3A                           |
| O-ring material                | NBR                          | NBR                          | NBR                          |
| Cable type                     | -                            | -                            | PVC                          |
| No.Conductors / Section        | -                            | -                            | 3x0.25mm <sup>2</sup>        |
| Conductor colours              | -                            | -                            | Brown; Blue; Black           |
| Cable diameter                 | -                            | -                            | -                            |
| Wires length                   | -                            | -                            | 0.3m                         |

#### Packaging

|         |             |             |             |
|---------|-------------|-------------|-------------|
| Qty/Bag | Not defined | Not defined | Not defined |
|---------|-------------|-------------|-------------|

#### Other accessories options

See accessories section

#### Notes:

Connectors available with different features:  
See the general features and codification scheme page

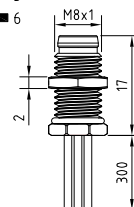
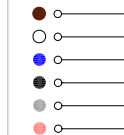
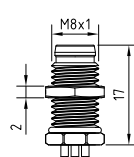
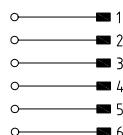
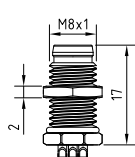
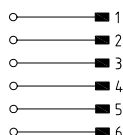
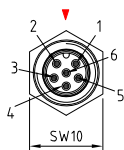


|                                                                                                                         |                                          |                                                                          |                                                                    |
|-------------------------------------------------------------------------------------------------------------------------|------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------|
| <b>Technical drawing</b>                                                                                                |                                          |                                                                          |                                                                    |
|                                                                                                                         |                                          |                                                                          |                                                                    |
| <b>Product description</b>                                                                                              |                                          |                                                                          |                                                                    |
| Connector type                                                                                                          | Circular connector panel mount           | Circular connector panel mount                                           | Circular connector panel mount                                     |
| Conforms to                                                                                                             | IEC 61076-2-104                          | IEC 61076-2-104                                                          | IEC 61076-2-104                                                    |
| Construction type                                                                                                       | M8 A -Coding                             | M8 A -Coding                                                             | M8 A -Coding                                                       |
| Description                                                                                                             | Circular connector M8 series,panel mount | Circular connector M8,panel mount,with contacts suitable for solder PCB. | Circular connector M8 series,panel mount, with PVC soldered wires. |
| Part number                                                                                                             | <b>08MR4000-M8X1</b>                     | <b>08MS4000-M8X1</b>                                                     | <b>08MR4A0C-M8X1</b>                                               |
| Mounting type                                                                                                           | Back side of the panel                   | Back side of the panel                                                   | Back side of the panel                                             |
| Contacts type                                                                                                           | Male                                     | Male                                                                     | Male                                                               |
| Number of contacts                                                                                                      | 4poles                                   | 4poles                                                                   | 4poles                                                             |
| Fixing Thread                                                                                                           | M8 x 1                                   | M8 x 1                                                                   | M8 x 1                                                             |
| <b>Technical data</b>                                                                                                   |                                          |                                                                          |                                                                    |
| Type of termination                                                                                                     | Contacts to solder wires                 | Contacts to solder wires                                                 | Contacts to solder wires                                           |
| Contacts material                                                                                                       | Brass + Gold flash                       | Brass + Gold flash                                                       | Brass + Gold flash                                                 |
| Housing /coupling nut material                                                                                          | Brass + Nickel plated                    | Brass + Nickel plated                                                    | Brass + Nickel plated                                              |
| Mobile nut material(SW)                                                                                                 | Brass + Nickel plated (SW10)             | Brass + Nickel plated (SW10)                                             | Brass + Nickel plated (SW10)                                       |
| M8 coupling nut torque                                                                                                  | 0.2 N*m                                  | 0.2 N*m                                                                  | 0.2 N*m                                                            |
| Rated voltage                                                                                                           | 50V AC/ 60V DC                           | 50V AC/ 60V DC                                                           | 50V AC/ 60V DC                                                     |
| Rated current                                                                                                           | 3A                                       | 3A                                                                       | 3A                                                                 |
| O-ring material                                                                                                         | NBR                                      | NBR                                                                      | NBR                                                                |
| Cable type                                                                                                              | -                                        | -                                                                        | PVC                                                                |
| No.Conductors / Section                                                                                                 | -                                        | -                                                                        | 4x0.25mm <sup>2</sup>                                              |
| Conductor colours                                                                                                       | -                                        | -                                                                        | Brown; White; Blue; Black                                          |
| Cable diameter                                                                                                          | -                                        | -                                                                        | -                                                                  |
| Wires lenght                                                                                                            | -                                        | -                                                                        | 0.3m                                                               |
| <b>Packaging</b>                                                                                                        |                                          |                                                                          |                                                                    |
| Qty/Bag                                                                                                                 | Not defined                              | Not defined                                                              | Not defined                                                        |
| <b>Other accessories options</b>                                                                                        |                                          |                                                                          |                                                                    |
| See accessories section                                                                                                 |                                          |                                                                          |                                                                    |
| <b>Notes:</b><br>Connectors available with different feautres:<br>See the general features and codification scheme page |                                          |                                                                          |                                                                    |





#### Technical drawing



#### Product description

|                    |                                          |                                                                          |                                                                    |
|--------------------|------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------|
| Connector type     | Circular connector panel mount           | Circular connector panel mount                                           | Circular connector panel mount                                     |
| Conforms to        | IEC 61076-2-104                          | IEC 61076-2-104                                                          | IEC 61076-2-104                                                    |
| Construction type  | M8 A -Coding                             | M8 A -Coding                                                             | M8 A -Coding                                                       |
| Description        | Circular connector M8 series,panel mount | Circular connector M8,panel mount,with contacts suitable for solder PCB. | Circular connector M8 series,panel mount, with PVC soldered wires. |
| Part number        | <b>08MR6000-M8X1</b>                     | <b>08MS6000-M8X1</b>                                                     | <b>08MR6K0C-M8X1</b>                                               |
| Mounting type      | Back side of the panel                   | Back side of the panel                                                   | Back side of the panel                                             |
| Contacts type      | Male                                     | Male                                                                     | Male                                                               |
| Number of contacts | 6poles                                   | 6poles                                                                   | 6poles                                                             |
| Fixing Thread      | M8 x 1                                   | M8 x 1                                                                   | M8 x 1                                                             |

#### Technical data

|                                |                              |                              |                                       |
|--------------------------------|------------------------------|------------------------------|---------------------------------------|
| Type of termination            | Contacts to solder wires     | Contacts to solder wires     | Contacts to solder wires              |
| Contacts material              | Brass + Gold flash           | Brass + Gold flash           | Brass + Gold flash                    |
| Housing /coupling nut material | Brass + Nickel plated        | Brass + Nickel plated        | Brass + Nickel plated                 |
| Mobile nut material(SW)        | Brass + Nickel plated (SW10) | Brass + Nickel plated (SW10) | Brass + Nickel plated (SW10)          |
| M8 coupling nut torque         | 0.2 N*m                      | 0.2 N*m                      | 0.2 N*m                               |
| Rated voltage                  | 30V AC/DC                    | 30V AC/DC                    | 30V AC/DC                             |
| Rated current                  | 1.5A                         | 1.5A                         | 1.5A                                  |
| O-ring material                | NBR                          | NBR                          | NBR                                   |
| Cable type                     | -                            | -                            | PVC                                   |
| No.Conductors / Section        | -                            | -                            | 6x0.14mm <sup>2</sup>                 |
| Conductor colours              | -                            | -                            | Brown; White; Blue; Black; Grey; Pink |
| Cable diameter                 | -                            | -                            | -                                     |
| Wires lenght                   | -                            | -                            | 0.3m                                  |

#### Packaging

|         |             |             |             |
|---------|-------------|-------------|-------------|
| Qty/Bag | Not defined | Not defined | Not defined |
|---------|-------------|-------------|-------------|

#### Other accessories options

See accessories section

#### Notes:

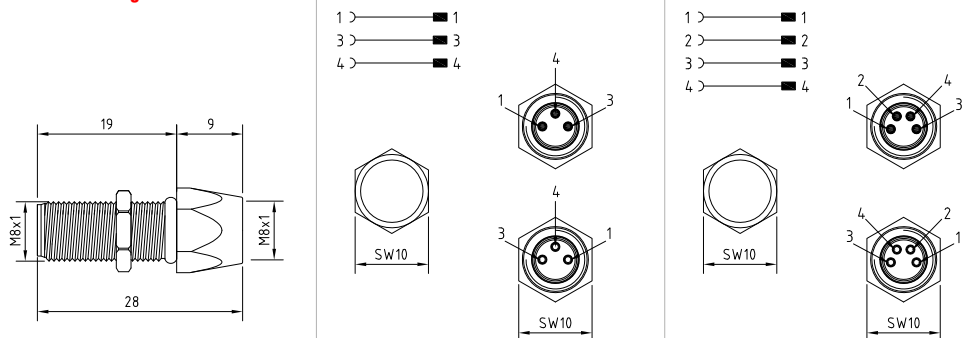
Connectors available with different features:  
See the general features and codification scheme page



|                                                                                                                         |                                          |                                                                          |                                                                    |
|-------------------------------------------------------------------------------------------------------------------------|------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------|
| <b>Technical drawing</b>                                                                                                |                                          |                                                                          |                                                                    |
|                                                                                                                         |                                          |                                                                          |                                                                    |
| <b>Product description</b>                                                                                              |                                          |                                                                          |                                                                    |
| Connector type                                                                                                          | Circular connector panel mount           | Circular connector panel mount                                           | Circular connector panel mount                                     |
| Conforms to                                                                                                             | IEC 61076-2-104                          | IEC 61076-2-104                                                          | IEC 61076-2-104                                                    |
| Construction type                                                                                                       | M8 A -Coding                             | M8 A -Coding                                                             | M8 A -Coding                                                       |
| Description                                                                                                             | Circular connector M8 series,panel mount | Circular connector M8,panel mount,with contacts suitable for solder PCB. | Circular connector M8 series,panel mount, with PVC soldered wires. |
| Part number                                                                                                             | <b>O8MR8000-M8X1</b>                     | <b>O8MS8000-M8X1</b>                                                     | <b>O8MR8K0C-M8X1</b>                                               |
| Mounting type                                                                                                           | Back side of the panel                   | Back side of the panel                                                   | Back side of the panel                                             |
| Contacts type                                                                                                           | Male                                     | Male                                                                     | Male                                                               |
| Number of contacts                                                                                                      | 8poles                                   | 8poles                                                                   | 8poles                                                             |
| Fixing Thread                                                                                                           | M8 x 1                                   | M8 x 1                                                                   | M8 x 1                                                             |
| <b>Technical data</b>                                                                                                   |                                          |                                                                          |                                                                    |
| Type of termination                                                                                                     | Contacts to solder wires                 | Contacts to solder wires                                                 | Contacts to solder wires                                           |
| Contacts material                                                                                                       | Brass + Gold flash                       | Brass + Gold flash                                                       | Brass + Gold flash                                                 |
| Housing /coupling nut material                                                                                          | Brass+Nickel plated                      | Brass + Nickel plated                                                    | Brass + Nickel plated                                              |
| Mobile nut material(SW)                                                                                                 | Brass + Nickel plated (SW10)             | Brass + Nickel plated (SW10)                                             | Brass + Nickel plated (SW10)                                       |
| M8 coupling nut torque                                                                                                  | 0.2 N*m                                  | 0.2 N*m                                                                  | 0.2 N*m                                                            |
| Rated voltage                                                                                                           | 30V AC/ DC                               | 30V AC/ DC                                                               | 30V AC/ DC                                                         |
| Rated current                                                                                                           | 1.5A                                     | 1.5A                                                                     | 1.5A                                                               |
| O-ring material                                                                                                         | NBR                                      | NBR                                                                      | NBR                                                                |
| Cable type                                                                                                              | -                                        | -                                                                        | PVC                                                                |
| No. Conductors / Section                                                                                                | -                                        | -                                                                        | 8x0.14mm <sup>2</sup>                                              |
| Conductor colours                                                                                                       | -                                        | -                                                                        | White;Brown;Green;Yellow;Grey;Pink;Blue;Red                        |
| Cable diameter                                                                                                          | -                                        | -                                                                        | -                                                                  |
| Wires length                                                                                                            | -                                        | -                                                                        | 0.3m                                                               |
| <b>Packaging</b>                                                                                                        |                                          |                                                                          |                                                                    |
| Qty/Bag                                                                                                                 | Not defined                              | Not defined                                                              | Not defined                                                        |
| <b>Other accessories options</b>                                                                                        |                                          |                                                                          |                                                                    |
| See accessories section                                                                                                 |                                          |                                                                          |                                                                    |
| <b>Notes:</b><br>Connectors available with different feautres:<br>See the general features and codification scheme page |                                          |                                                                          |                                                                    |



#### Technical drawing



#### Product description

|                    |                                                                |                                                                |
|--------------------|----------------------------------------------------------------|----------------------------------------------------------------|
| Connector type     | Circular connector panel mount                                 | Circular connector panel mount                                 |
| Conforms to        | IEC 61076-2-104                                                | IEC 61076-2-104                                                |
| Construction type  | M8 A -Coding                                                   | M8 A -Coding                                                   |
| Description        | Adapter Female - Male M8 series circular connector,panel mount | Adapter Female - Male M8 series circular connector,panel mount |
| Part number        | <b>08FP3-08MP-M8X1</b>                                         | <b>08FP4-08MP-M8X1</b>                                         |
| Mounting type      | Frontal side of the panel                                      | Frontal side of the panel                                      |
| Contacts type      | Female - Male                                                  | Female - Male                                                  |
| Number of contacts | 3poles                                                         | 4poles                                                         |
| Fixing Thread      | M8 x 1                                                         | M8 x 1                                                         |

#### Technical data

|                                |                              |                              |
|--------------------------------|------------------------------|------------------------------|
| Type of termination            | Contacts to solder wires     | Contacts to solder wires     |
| Contacts material              | Brass + Gold flash           | Brass + Gold flash           |
| Housing /coupling nut material |                              | Brass + Nickel plated        |
| Mobile nut material(SW)        | Brass + Nickel plated (SW10) | Brass + Nickel plated (SW10) |
| M8 coupling nut torque         | 0.2 N*m                      | 0.2 N*m                      |
| Rated voltage                  | 50V AC/ 60V DC               | 50V AC/ 60V DC               |
| Rated current                  | 3A                           | 3A                           |
| O-ring material                | NBR                          | NBR                          |
| <b>Packaging</b>               |                              |                              |
| Qty/Bag                        | Not defined                  | Not defined                  |

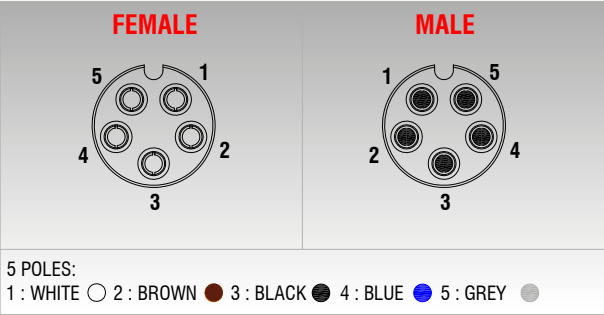
#### Other accessories options

|                         |  |  |
|-------------------------|--|--|
| See accessories section |  |  |
|-------------------------|--|--|

#### Notes:



**M9 CIRCULAR CONNECTORS**



● **GENERAL FEATURES OF MOULDED CONNECTORS:**

- Conductor cross section :**  
0.14(26AWG)...0.50mm²(20AWG).

**Fixing system :**  
M9 coupling nut.

**Max. screw torque IEC60947-1**  
M9 coupling nut torque 0.2 N\*m
- Type of terminations :**  
To solder wires.

**Contact material and treatment :**  
Brass + Gold flash.

**Housing material :**  
Polypropylene (Black).
- Internal core material :**  
PA66.

**Coupling nut material :**  
Brass + Nickel plated.  
Stainless steel AISI304(upon request).  
Stainless steel AISI316(upon request).
- Protection class :**  
IP 67

**Operating temperature :**  
-25°C + 90°C.

09

F

J

5

J

1Z

09

M

J

-

##

**SERIES**  
09 : M9 CIRCULAR CONNECTOR.

**GENDER**  
F : FEMALE. M : MALE.

**CONNECTOR TYPE**  
D : STRAIGHT 180°.  
J : STRAIGHT 180° TOTALLY SHIELDED.

**NUMBERS OF POLES**  
5 : 5POLES.

**CABLE TYPE**  
J : PVC/PVC CEI2022 5x0.25mm² BLACK.  
U : PUR/PUR 5x0.25mm² BLACK.

**CABLE LENGTH**  
1Z : 1m A : +10cm  
2Z : 2m B : +20cm  
3Z : 3m C : +30cm  
...  
I : +90cm

EXAMPLE: "...1C" = 1.3m  
"...1F" = 1.6m  
"...2A" = 2.1m

**EXTENSION**  
SPECIFY OTHER CONNECTOR'S SIDE.

**SOME VARIABLES**

INOX : M9 COUPLING NUT IN STAINLESS STEEL(AISI304). IN316 : M9 COUPLING NUT IN STAINLESS STEEL(AISI316).  
HN : HEXAGONAL M9 COUPLING NUT. S : SPECIAL STRIPPING/PEELING-TINNING. Y : WITHOUT H.T.P.LOGO.



● **M9 CONNECTORS CABLE:**

| Code | Material | Type of cable |                                                                                     | Colour | Section | No.core | Cable ø<br>mm ±0.3 | Temperature range °C |
|------|----------|---------------|-------------------------------------------------------------------------------------|--------|---------|---------|--------------------|----------------------|
| J    | PVC/PVC  | SHIELDED      |  | Black  | 0.25mm² | 5       | ø5.2mm             | -20°C / + 80°C       |
| U    | PUR/PUR  | SHIELDED      |  | Black  | 0.25mm² | 5       | ø5.2mm             | -40°C / + 80°C       |





## M12 CIRCULAR CONNECTORS

• CODING OF M12 CONNECTORS:

| A-CODED | B-CODED | C-CODED | D-CODED | L-CODED | K-CODED | S-CODED | X-CODED |
|---------|---------|---------|---------|---------|---------|---------|---------|
|         |         |         |         |         |         |         |         |

• M12 A-CODED I/O NETWORKS:

| FEMALE                                                          | MALE | FEMALE                                                                                                              | MALE | FEMALE                                                                                                                                                                              | MALE |
|-----------------------------------------------------------------|------|---------------------------------------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
|                                                                 |      |                                                                                                                     |      |                                                                                                                                                                                     |      |
| <b>3 POLES:</b><br>1 : BROWN 3 : BLUE 4 : BLACK                 |      | <b>8 POLES:</b><br>1 : WHITE<br>2 : BROWN<br>3 : GREEN<br>4 : YELLOW<br>5 : GREY<br>6 : PINK<br>7 : BLUE<br>8 : RED |      | <b>12 POLES:</b><br>1 : BROWN<br>2 : BLUE<br>3 : WHITE<br>4 : GREEN<br>5 : PINK<br>6 : YELLOW<br>7 : BLACK<br>8 : GREY<br>9 : RED<br>10 : PURPLE<br>11 : PINK/GREY<br>12 : RED/BLUE |      |
| <b>4POLES:</b><br>1 : BROWN 2 : WHITE 3 : BLUE 4 : BLACK        |      |                                                                                                                     |      |                                                                                                                                                                                     |      |
| <b>5POLES:</b><br>1 : BROWN 2 : WHITE 3 : BLUE 4 : BLACK 5:GREY |      |                                                                                                                     |      |                                                                                                                                                                                     |      |

**NOTE:**  
All the connector coding can be used in I/O (Input/Output) networks to prevent connection mistakes using different coupling keys or to be used in many applications when the connectors get coupling with a different cables.

• M12 A-CODED DEVICENET NETWORKS:



| FEMALE | MALE | 5 POLES:                                                    |
|--------|------|-------------------------------------------------------------|
|        |      | 1 : SHIELD<br>2 : RED<br>3 : BLACK<br>4 : WHITE<br>5 : BLUE |

• M12 B-CODED PROFIBUS NETWORKS:

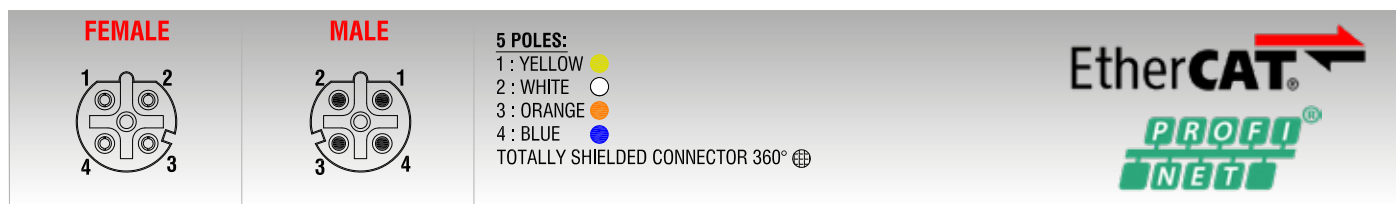


| FEMALE | MALE | 5 POLES:                                                              |
|--------|------|-----------------------------------------------------------------------|
|        |      | 2 : GREEN<br>4 : RED<br>5 : SHIELD<br>TOTALLY SHIELDED CONNECTOR 360° |

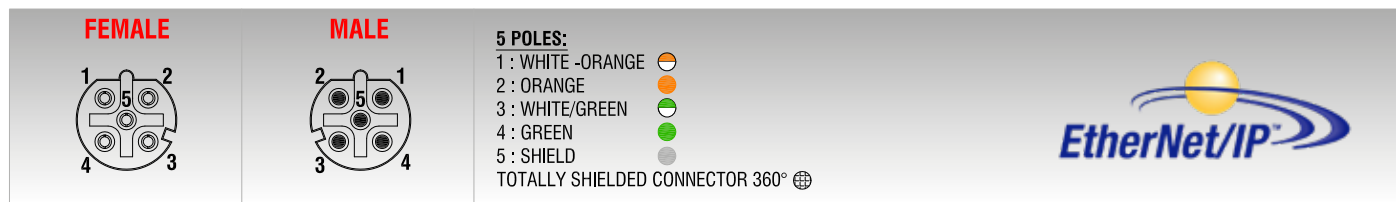
• M12 C-CODED I/O NETWORKS:

| FEMALE | MALE | 3 POLES (2P+P.E.):                              |
|--------|------|-------------------------------------------------|
|        |      | 1(P.E.) : YELLOW/GREEN<br>2 : BLUE<br>3 : BROWN |

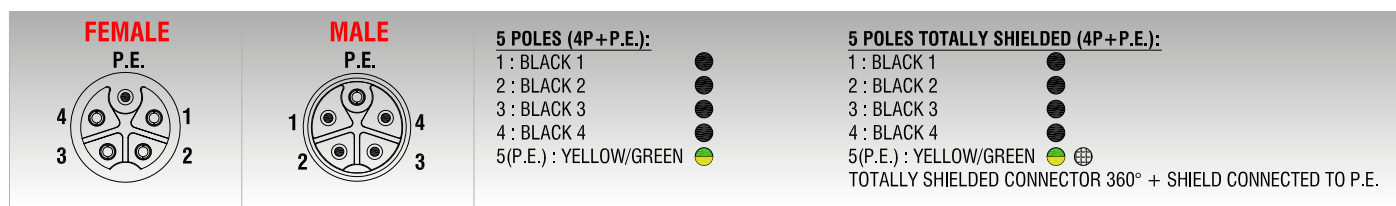
## • M12 D-CODED PROFINET/ETHERCAT NETWORKS:



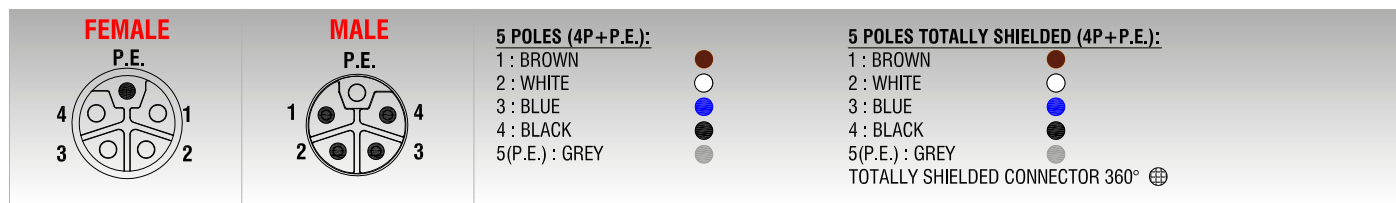
## • M12 D-CODED ETHERNET NETWORKS:



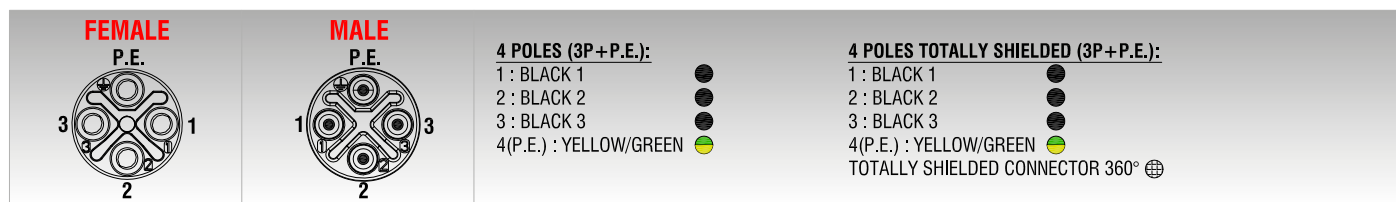
## • M12 K-CODED POWER CONNECTOR :



## • M12 L-CODED POWER CONNECTOR :



## • M12 S-CODED POWER CONNECTOR :



## • M12 X-CODED ETHERNET NETWORKS:





## • GENERAL FEATURES OF FIELD ATTACHABLE CONNECTORS:

### Cable Gland :

#### Plastic Housing

**PG7** : Ø CABLE 4-6mm.

**PG9** : Ø CABLE 6-8mm.

**PG11** : Ø CABLE 6-10mm.

**PG11 double exit** : Ø5.5mm max.

**SK** : Ø CABLE 4-8.6mm.

**Metal Housing** : Ø CABLE 4-8mm.

### Max. screw torque IEC60947-1 :

Contact screw torque 0.2N\*m.

M12 coupling nut torque 0.4N\*m.

ATEX coupling nut torque 0.6N\*m.

### Type of terminations :

Screw.

Solder wires(12 poles).

### Internal core material :

PA66 UL94-V2.

PA66 UL94-V0(ATEX approved).

### Coupling nut material :

Brass + Nickel plated.

Stainless steel AISI304(upon request).

Stainless steel AISI316(upon request).

### Protection class :

IP65/67 (assembled).

### Operating temperature :

-40°C +90°C.

-25°C +85°C(metal housing).

-20°C +85°C ATEX approved.

### Conductor cross section :

0.14(26AWG)...0.75mm²(18AWG).

### Contact material and treatment :

Brass + Gold flash.

### Flammability resistance :

UL94-V2 - Standard.

UL94-V0 - ATEX approved.

### Fixing system :

M12 coupling nut.

### Housing material :

PA66 UL94-V2.

PA66 UL94-V0 ATEX approved.

Brass + Nickel plated.

### CODING

**NO DIGIT** : M12 A-CODING

**B** : M12 B-CODING

**D** : M12 D-CODING

### SERIES

**12** : M12 CIRCULAR CONNECTOR.

### GENDER

**F** : FEMALE. **M** : MALE.

### HOUSING TYPE

**C** : STRAIGHT PLASTIC HOUSING 180° - PG7 CABLE GLAND.

**B** : ANGLED PLASTIC HOUSING 90° - PG7 CABLE GLAND.

**L** : STRAIGHT PLASTIC HOUSING 180° - PG11 CABLE GLAND.

**U** : ANGLED PLASTIC HOUSING 90° - PG11 CABLE GLAND.

**1** : STRAIGHT METAL HOUSING 180°

### NUMBERS OF POLES

**4** : 4POLES. **5** : 5POLES. **8** : 8POLES. **12** : 12POLES.

### CABLE TYPE AND LENGTH

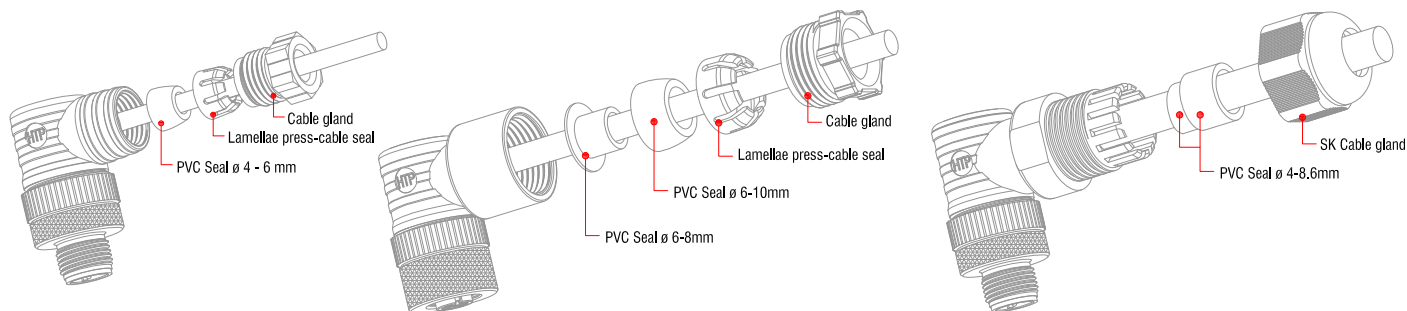
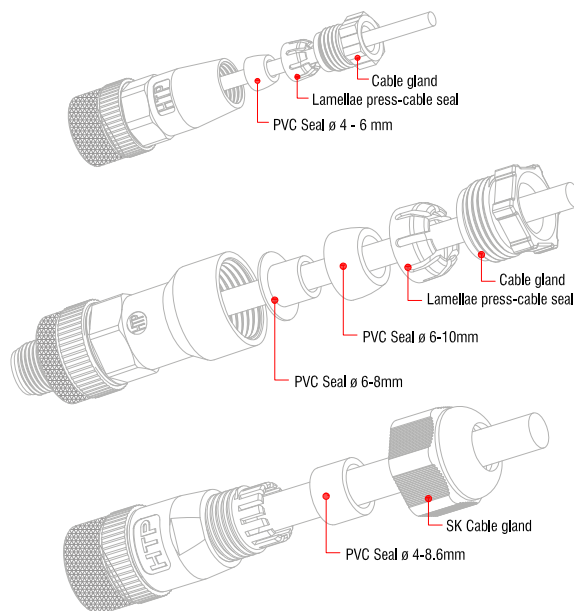
**000** : WITHOUT CABLE.

### SOME VARIABLES

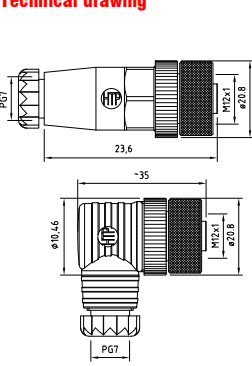
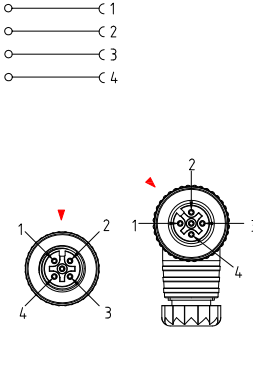
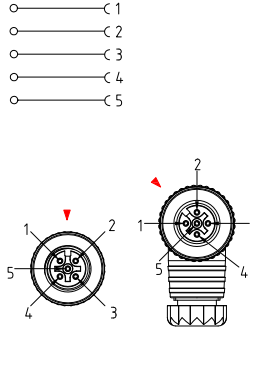
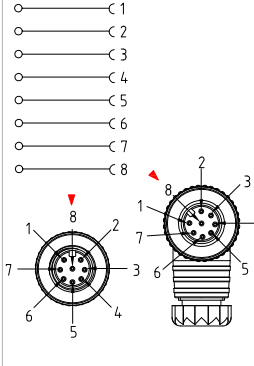
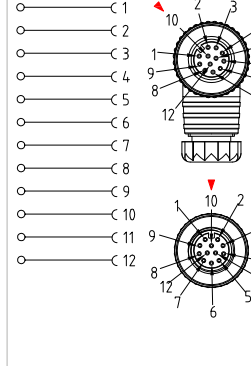
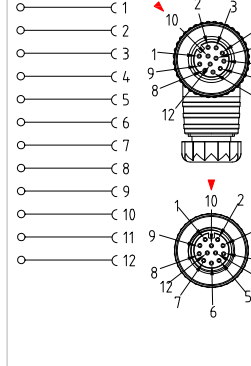
**ATEX** : ATEX conform. **H** : HEXAGONAL PRESS CABLE SCREW. **HN** : HEXAGONAL M12 COUPLING NUT.

**INOX** : M12 COUPLING NUT IN STAINLESS STEEL(AISI304). **INOX316** : M12 COUPLING NUT IN STAINLESS STEEL(AISI316).

**SK** : Cable gland SK style. **Y** : WITHOUT H.T.P.LOGO.

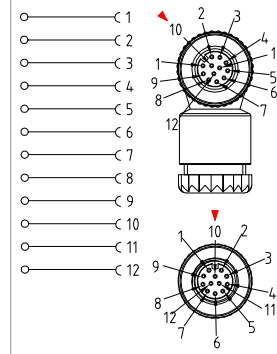
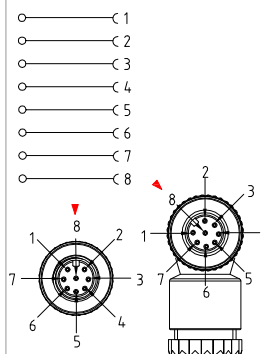
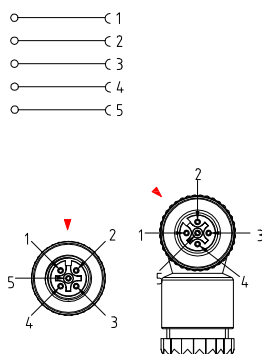
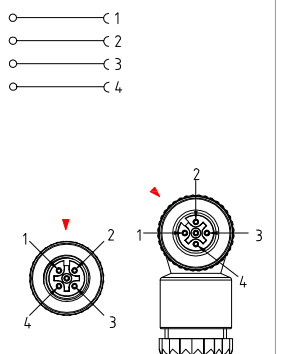
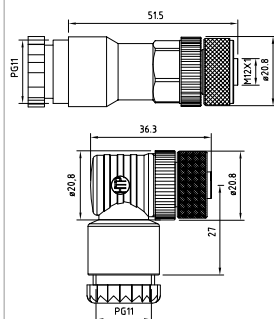




|                                                       |  |                                                                                   |  |                                                                                   |  |                                                                                   |  |                                                                                    |  |                                                                                     |  |                                                                                     |  |
|-------------------------------------------------------|--|-----------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------|--|
| <b>Technical drawing</b>                              |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>Product description</b>                            |  |                                                                                   |  |                                                                                   |  |                                                                                   |  |                                                                                    |  |                                                                                     |  |                                                                                     |  |
| Connector type                                        |  | Circular connector field attachable                                               |  | Circular connector field attachable                                               |  | Circular connector field attachable                                               |  | Circular connector field attachable                                                |  | Circular connector field attachable                                                 |  | Circular connector field attachable                                                 |  |
| Conforms to                                           |  | IEC 61076-2-101                                                                   |  | IEC 61076-2-101                                                                   |  | IEC 61076-2-101                                                                   |  | IEC 61076-2-101                                                                    |  | IEC 61076-2-101                                                                     |  | IEC 61076-2-101                                                                     |  |
| Construction type                                     |  | M12 A-Coded                                                                       |  | M12 A-Coded                                                                       |  | M12 A-Coded                                                                       |  | M12 A-Coded                                                                        |  | M12 A-Coded                                                                         |  | M12 A-Coded                                                                         |  |
| Part number                                           |  | <b>12FC4000</b> <b>12FB4000</b>                                                   |  | <b>12FC5000</b> <b>12FB5000</b>                                                   |  | <b>12FC8000</b> <b>12FB8000</b>                                                   |  | <b>12FC12000</b> <b>12FB12000</b>                                                  |  |                                                                                     |  |                                                                                     |  |
| Housing type                                          |  | Straight 180°      Angled 90°                                                     |  | Straight 180°      Angled 90°                                                     |  | Straight 180°      Angled 90°                                                     |  | Straight 180°      Angled 90°                                                      |  | Straight 180°      Angled 90°                                                       |  | Straight 180°      Angled 90°                                                       |  |
| Cable gland                                           |  | PG7 standard                                                                      |  | PG7 standard                                                                      |  | PG7 standard                                                                      |  | PG7 standard                                                                       |  | PG7 standard                                                                        |  | PG7 standard                                                                        |  |
| Description                                           |  | Circular connector M12 series field attachable                                    |  | Circular connector M12 series field attachable                                    |  | Circular connector M12 series field attachable                                    |  | Circular connector M12 series field attachable                                     |  | Circular connector M12 series field attachable                                      |  | Circular connector M12 series field attachable                                      |  |
| Contacts type                                         |  | Female                                                                            |  | Female                                                                            |  | Female                                                                            |  | Female                                                                             |  | Female                                                                              |  | Female                                                                              |  |
| Number of contacts                                    |  | 4poles                                                                            |  | 5poles                                                                            |  | 8poles                                                                            |  | 12poles                                                                            |  |                                                                                     |  |                                                                                     |  |
| Housing colour                                        |  | Black                                                                             |  | Black                                                                             |  | Black                                                                             |  | Black                                                                              |  | Black                                                                               |  | Black                                                                               |  |
| <b>Technical data</b>                                 |  |                                                                                   |  |                                                                                   |  |                                                                                   |  |                                                                                    |  |                                                                                     |  |                                                                                     |  |
| Type of termination                                   |  | Screw contacts                                                                    |  | Screw contacts                                                                    |  | Screw contacts                                                                    |  | Screw contacts                                                                     |  | Solder contacts                                                                     |  | Solder contacts                                                                     |  |
| Contact screw torque                                  |  | 0.2 N*m                                                                           |  | 0.2 N*m                                                                           |  | 0.2 N*m                                                                           |  | 0.2 N*m                                                                            |  | -                                                                                   |  | -                                                                                   |  |
| Housing material                                      |  | PA66 UL94-V2                                                                      |  | PA66 UL94-V2                                                                      |  | PA66 UL94-V2                                                                      |  | PA66 UL94-V2                                                                       |  | PA66 UL94-V2                                                                        |  | PA66 UL94-V2                                                                        |  |
| Contacts material                                     |  | Brass + Gold flash                                                                |  | Brass + Gold flash                                                                |  | Brass + Gold flash                                                                |  | Brass + Gold flash                                                                 |  | Brass + Gold flash                                                                  |  | Brass + Gold flash                                                                  |  |
| Coupling nut type                                     |  | Knurl round                                                                       |  | Knurl round                                                                       |  | Knurl round                                                                       |  | Knurl round                                                                        |  | Knurl round                                                                         |  | Knurl round                                                                         |  |
| M12 coupling nut material                             |  | Brass + Nickel plated                                                             |  | Brass + Nickel plated                                                             |  | Brass + Nickel plated                                                             |  | Brass + Nickel plated                                                              |  | Brass + Nickel plated                                                               |  | Brass + Nickel plated                                                               |  |
| M12 coupling nut torque                               |  | 0.4 N*m                                                                           |  | 0.4 N*m                                                                           |  | 0.4 N*m                                                                           |  | 0.4 N*m                                                                            |  | 0.4 N*m                                                                             |  | 0.4 N*m                                                                             |  |
| Rated voltage                                         |  | 250V AC/DC                                                                        |  | 60V AC/DC                                                                         |  | 30V AC/DC                                                                         |  | 30V AC/DC                                                                          |  | 30V AC/DC                                                                           |  | 30V AC/DC                                                                           |  |
| Rated current                                         |  | 4A                                                                                |  | 4A                                                                                |  | 2A                                                                                |  | 2A                                                                                 |  | 1.5A                                                                                |  | 1.5A                                                                                |  |
| Temperature range                                     |  | -40°C + 90°C                                                                      |  | -40°C + 90°C                                                                      |  | -40°C + 90°C                                                                      |  | -40°C + 90°C                                                                       |  | -40°C + 90°C                                                                        |  | -40°C + 90°C                                                                        |  |
| O-ring material                                       |  | NBR                                                                               |  | NBR                                                                               |  | NBR                                                                               |  | NBR                                                                                |  | NBR                                                                                 |  | NBR                                                                                 |  |
| Suitable cable                                        |  | ø 4 - 6mm                                                                         |  | ø 4 - 6mm                                                                         |  | ø 4 - 6mm                                                                         |  | ø 4 - 6mm                                                                          |  | ø 4 - 6mm                                                                           |  | ø 4 - 6mm                                                                           |  |
|                                                       |  |                                                                                   |  |                                                                                   |  |                                                                                   |  |                                                                                    |  |                                                                                     |  |                                                                                     |  |
|                                                       |  |                                                                                   |  |                                                                                   |  |                                                                                   |  |                                                                                    |  |                                                                                     |  |                                                                                     |  |
| <b>Packaging</b>                                      |  |                                                                                   |  |                                                                                   |  |                                                                                   |  |                                                                                    |  |                                                                                     |  |                                                                                     |  |
| Qty/Bag                                               |  | 1 pc / bag                                                                        |  | 1 pc / bag                                                                        |  | 1 pc / bag                                                                        |  | 1 pc / bag                                                                         |  | 1 pc / bag                                                                          |  | 1 pc / bag                                                                          |  |
| <b>Other accessories options</b>                      |  |                                                                                   |  |                                                                                   |  |                                                                                   |  |                                                                                    |  |                                                                                     |  |                                                                                     |  |
| See accessories section                               |  |                                                                                   |  |                                                                                   |  |                                                                                   |  |                                                                                    |  |                                                                                     |  |                                                                                     |  |
| <b>Notes:</b>                                         |  |                                                                                   |  |                                                                                   |  |                                                                                   |  |                                                                                    |  |                                                                                     |  |                                                                                     |  |
| Connectors available with different features:         |  |                                                                                   |  |                                                                                   |  |                                                                                   |  |                                                                                    |  |                                                                                     |  |                                                                                     |  |
| See the general features and codification scheme page |  |                                                                                   |  |                                                                                   |  |                                                                                   |  |                                                                                    |  |                                                                                     |  |                                                                                     |  |



#### Technical drawing



#### Product description

| Connector type     | Circular connector field attachable            |                 | Circular connector field attachable            |                 | Circular connector field attachable            |                 | Circular connector field attachable            |                  |
|--------------------|------------------------------------------------|-----------------|------------------------------------------------|-----------------|------------------------------------------------|-----------------|------------------------------------------------|------------------|
| Conforms to        | IEC 61076-2-101                                |                 | IEC 61076-2-101                                |                 | IEC 61076-2-101                                |                 | IEC 61076-2-101                                |                  |
| Construction type  | M12 A-Coded                                    |                 | M12 A-Coded                                    |                 | M12 A-Coded                                    |                 | M12 A-Coded                                    |                  |
| Part number        | <b>12FL4000</b>                                | <b>12FU4000</b> | <b>12FL5000</b>                                | <b>12FU5000</b> | <b>12FL8000</b>                                | <b>12FU8000</b> | <b>12FL12000</b>                               | <b>12FU12000</b> |
| Housing type       | Straight 180°                                  | Angled 90°      | Straight 180°                                  | Angled 90°      | Straight 180°                                  | Angled 90°      | Straight 180°                                  | Angled 90°       |
| Cable gland        | PG9-11 unified /Double cable exit              |                 | PG9-11 unified /Double cable exit              |                 | PG9-11 unified /Double cable exit              |                 | PG9-11 unified /Double cable exit              |                  |
| Description        | Circular connector M12 series field attachable |                 | Circular connector M12 series field attachable |                 | Circular connector M12 series field attachable |                 | Circular connector M12 series field attachable |                  |
| Contacts type      | Female                                         |                 | Female                                         |                 | Female                                         |                 | Female                                         |                  |
| Number of contacts | 4poles                                         |                 | 5poles                                         |                 | 8poles                                         |                 | 12poles                                        |                  |
| Housing colour     | Black                                          |                 | Black                                          |                 | Black                                          |                 | Black                                          |                  |

#### Technical data

|                           |                                          |                                          |                                          |                                          |
|---------------------------|------------------------------------------|------------------------------------------|------------------------------------------|------------------------------------------|
| Type of termination       | Screw contacts                           | Screw contacts                           | Screw contacts                           | Solder contacts                          |
| Contact screw torque      | 0.2 N*m                                  | 0.2 N*m                                  | 0.2 N*m                                  | -                                        |
| Housing material          | PA66 UL94-V2                             | PA66 UL94-V2                             | PA66 UL94-V2                             | PA66 UL94-V2                             |
| Contacts material         | Brass + Gold flash                       | Brass + Gold flash                       | Brass + Gold flash                       | Brass + Gold flash                       |
| Coupling nut type         | Knurl round                              | Knurl round                              | Knurl round                              | Knurl round                              |
| M12 coupling nut material | Brass + Nickel plated                    | Brass + Nickel plated                    |                                          |                                          |
| M12 coupling nut torque   | 0.4 N*m                                  | 0.4 N*m                                  | 0.4 N*m                                  | 0.4 N*m                                  |
| Rated voltage             | 250V AC/DC                               | 60V AC/DC                                | 30V AC/DC                                | 30V AC/DC                                |
| Rated current             | 4A                                       | 4A                                       | 2A                                       | 1.5A                                     |
| Temperature range         | -40°C + 90°C                             | -40°C + 90°C                             | -40°C + 90°C                             | -40°C + 90°C                             |
| O-ring material           | NBR                                      | NBR                                      | NBR                                      | NBR                                      |
| Suitable cable            | ø cable 6-10mm<br>Double exit ø5mm(max.) | ø cable 6-10mm<br>Double exit ø5mm(max.) | ø cable 6-10mm<br>Double exit ø5mm(max.) | ø cable 6-10mm<br>Double exit ø5mm(max.) |

#### Packaging

|         |            |            |            |            |
|---------|------------|------------|------------|------------|
| Qty/Bag | 1 pc / bag | 1 pc / bag | 1 pc / bag | 1 pc / bag |
|---------|------------|------------|------------|------------|

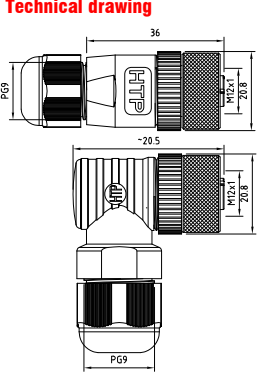
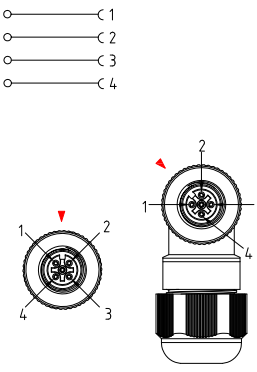
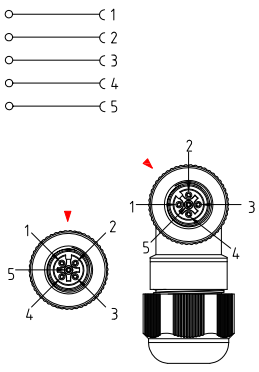
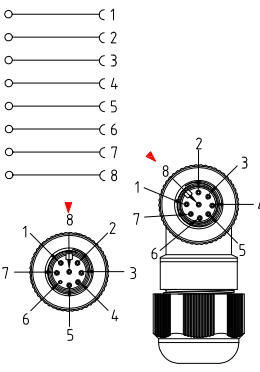
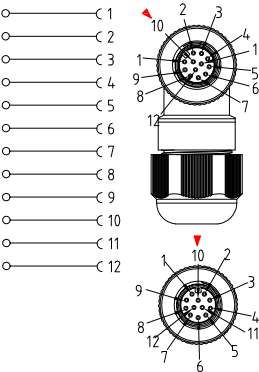
#### Other accessories options

See accessories section

#### Notes:

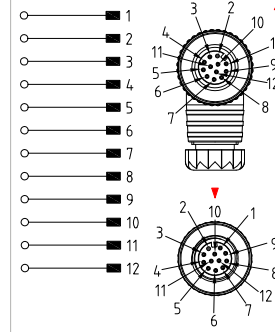
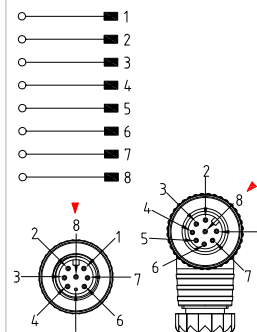
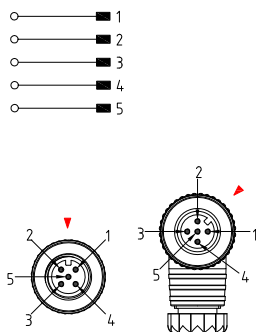
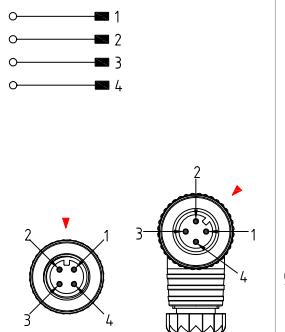
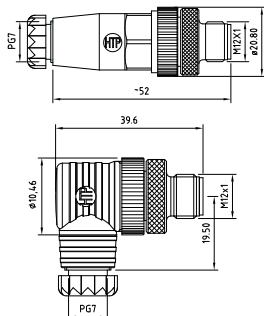
Connectors available with different features:  
See the general features and codification scheme page



|                                                                                                        |  |                                                                                   |  |                                                                                   |  |                                                                                   |  |                                                                                    |  |                                                                                     |  |
|--------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------|--|
| <b>Technical drawing</b>                                                                               |  |  |  |  |  |  |  |  |  |  |  |
| <b>Product description</b>                                                                             |  |                                                                                   |  |                                                                                   |  |                                                                                   |  |                                                                                    |  |                                                                                     |  |
| Connector type                                                                                         |  | Circular connector field attachable                                               |  | Circular connector field attachable                                               |  | Circular connector field attachable                                               |  | Circular connector field attachable                                                |  | Circular connector field attachable                                                 |  |
| Conforms to                                                                                            |  | IEC 61076-2-101                                                                   |  | IEC 61076-2-101                                                                   |  | IEC 61076-2-101                                                                   |  | IEC 61076-2-101                                                                    |  | IEC 61076-2-101                                                                     |  |
| Construction type                                                                                      |  | M12 A-Coded                                                                       |  | M12 A-Coded                                                                       |  | M12 A-Coded                                                                       |  | M12 A-Coded                                                                        |  | M12 A-Coded                                                                         |  |
| Part number                                                                                            |  | <b>12FC4000-SK    12FB4000-SK</b>                                                 |  | <b>12FC5000-SK    12FB5000-SK</b>                                                 |  | <b>12FC8000-SK    12FB8000-SK</b>                                                 |  | <b>12FC12000-SK    12FB12000-SK</b>                                                |  |                                                                                     |  |
| Housing type                                                                                           |  | Straight 180°    Angled 90°                                                       |  | Straight 180°    Angled 90°                                                       |  | Straight 180°    Angled 90°                                                       |  | Straight 180°    Angled 90°                                                        |  | Straight 180°    Angled 90°                                                         |  |
| Cable gland                                                                                            |  | PG9 SK model                                                                      |  | PG9 SK model                                                                      |  | PG9 SK model                                                                      |  | PG9 SK model                                                                       |  | PG9 SK model                                                                        |  |
| Description                                                                                            |  | Circular connector M12 series field attachable                                    |  | Circular connector M12 series field attachable                                    |  | Circular connector M12 series field attachable                                    |  | Circular connector M12 series field attachable                                     |  | Circular connector M12 series field attachable                                      |  |
| Contacts type                                                                                          |  | Female                                                                            |  | Female                                                                            |  | Female                                                                            |  | Female                                                                             |  | Female                                                                              |  |
| Number of contacts                                                                                     |  | 4poles                                                                            |  | 5poles                                                                            |  | 8poles                                                                            |  | 12poles                                                                            |  |                                                                                     |  |
| Housing colour                                                                                         |  | Black                                                                             |  | Black                                                                             |  | Black                                                                             |  | Black                                                                              |  | Black                                                                               |  |
| <b>Technical data</b>                                                                                  |  |                                                                                   |  |                                                                                   |  |                                                                                   |  |                                                                                    |  |                                                                                     |  |
| Type of termination                                                                                    |  | Screw contacts                                                                    |  | Screw contacts                                                                    |  | Screw contacts                                                                    |  | Solder contacts                                                                    |  |                                                                                     |  |
| Contact screw torque                                                                                   |  | 0.2 N*m                                                                           |  | 0.2 N*m                                                                           |  | 0.2 N*m                                                                           |  | -                                                                                  |  |                                                                                     |  |
| Housing material                                                                                       |  | PA66 UL94-V2                                                                      |  | PA66 UL94-V2                                                                      |  | PA66 UL94-V2                                                                      |  | PA66 UL94-V2                                                                       |  |                                                                                     |  |
| Contacts material                                                                                      |  | Brass + Gold flash                                                                |  | Brass + Gold flash                                                                |  | Brass + Gold flash                                                                |  | Brass + Gold flash                                                                 |  |                                                                                     |  |
| Coupling nut type                                                                                      |  | Knurl round                                                                       |  | Knurl round                                                                       |  | Knurl round                                                                       |  | Knurl round                                                                        |  |                                                                                     |  |
| M8 coupling nut material                                                                               |  | Brass + Nickel plated                                                             |  | Brass + Nickel plated                                                             |  | Brass + Nickel plated                                                             |  | Brass + Nickel plated                                                              |  |                                                                                     |  |
| M8 coupling nut torque                                                                                 |  | 0.4 N*m                                                                           |  | 0.4 N*m                                                                           |  | 0.4 N*m                                                                           |  | 0.4 N*m                                                                            |  |                                                                                     |  |
| Rated voltage                                                                                          |  | 250V AC/DC                                                                        |  | 60V AC/DC                                                                         |  | 30V AC/DC                                                                         |  | 30V AC/DC                                                                          |  |                                                                                     |  |
| Rated current                                                                                          |  | 4A                                                                                |  | 4A                                                                                |  | 2A                                                                                |  | 1.5A                                                                               |  |                                                                                     |  |
| Temperature range                                                                                      |  | -40°C + 90°C                                                                      |  | -40°C + 90°C                                                                      |  | -40°C + 90°C                                                                      |  | -40°C + 90°C                                                                       |  |                                                                                     |  |
| O-ring material                                                                                        |  | NBR                                                                               |  | NBR                                                                               |  | NBR                                                                               |  | NBR                                                                                |  |                                                                                     |  |
| Suitable cable                                                                                         |  | ø 4 - 8.6mm                                                                       |  | ø 4 - 8.6mm                                                                       |  | ø 4 - 8.6mm                                                                       |  | ø 4 - 8.6mm                                                                        |  |                                                                                     |  |
|                                                                                                        |  |                                                                                   |  |                                                                                   |  |                                                                                   |  |                                                                                    |  |                                                                                     |  |
| <b>Packaging</b>                                                                                       |  |                                                                                   |  |                                                                                   |  |                                                                                   |  |                                                                                    |  |                                                                                     |  |
| Qty/Bag                                                                                                |  | 1 pc / bag                                                                        |  | 1 pc / bag                                                                        |  | 1 pc / bag                                                                        |  | 1 pc / bag                                                                         |  |                                                                                     |  |
| <b>Other accessories options</b>                                                                       |  |                                                                                   |  |                                                                                   |  |                                                                                   |  |                                                                                    |  |                                                                                     |  |
| See accessories section                                                                                |  |                                                                                   |  |                                                                                   |  |                                                                                   |  |                                                                                    |  |                                                                                     |  |
| <b>Notes:</b>                                                                                          |  |                                                                                   |  |                                                                                   |  |                                                                                   |  |                                                                                    |  |                                                                                     |  |
| Connectors available with different features:<br>See the general features and codification scheme page |  |                                                                                   |  |                                                                                   |  |                                                                                   |  |                                                                                    |  |                                                                                     |  |



### Technical drawing



### Product description

|                    |                                                |                 |                                                |                 |                                                |                 |                                                |                  |
|--------------------|------------------------------------------------|-----------------|------------------------------------------------|-----------------|------------------------------------------------|-----------------|------------------------------------------------|------------------|
| Connector type     | Circular connector field attachable            |                 | Circular connector field attachable            |                 | Circular connector field attachable            |                 | Circular connector field attachable            |                  |
| Conforms to        | IEC 61076-2-101                                |                 | IEC 61076-2-101                                |                 | IEC 61076-2-101                                |                 | IEC 61076-2-101                                |                  |
| Construction type  | M12 A-Coded                                    |                 | M12 A-Coded                                    |                 | M12 A-Coded                                    |                 | M12 A-Coded                                    |                  |
| Part number        | <b>12MC4000</b>                                | <b>12MB4000</b> | <b>12MC5000</b>                                | <b>12MB5000</b> | <b>12MC8000</b>                                | <b>12MB8000</b> | <b>12MC12000</b>                               | <b>12MB12000</b> |
| Housing type       | Straight 180°                                  | Angled 90°      | Straight 180°                                  | Angled 90°      | Straight 180°                                  | Angled 90°      | Straight 180°                                  | Angled 90°       |
| Cable gland        | PG7 standard                                   |                 | PG7 standard                                   |                 | PG7 standard                                   |                 | PG7 standard                                   |                  |
| Description        | Circular connector M12 series field attachable |                 | Circular connector M12 series field attachable |                 | Circular connector M12 series field attachable |                 | Circular connector M12 series field attachable |                  |
| Contacts type      | Male                                           |                 | Male                                           |                 | Male                                           |                 | Male                                           |                  |
| Number of contacts | 4poles                                         |                 | 5poles                                         |                 | 8poles                                         |                 | 12poles                                        |                  |
| Housing colour     | Black                                          |                 | Black                                          |                 | Black                                          |                 | Black                                          |                  |

### Technical data

|                           |                       |                       |                       |                       |
|---------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Type of termination       | Screw contacts        | Screw contacts        | Screw contacts        | Solder contacts       |
| Contact screw torque      | 0.2 N*m               | 0.2 N*m               | 0.2 N*m               | -                     |
| Housing material          | PA66 UL94-V2          | PA66 UL94-V2          | PA66 UL94-V2          | PA66 UL94-V2          |
| Contacts material         | Brass + Gold flash    | Brass + Gold flash    | Brass + Gold flash    | Brass + Gold flash    |
| Coupling nut type         | Knurl round           | Knurl round           | Knurl round           | Knurl round           |
| M12 coupling nut material | Brass + Nickel plated | Brass + Nickel plated | Brass + Nickel plated | Brass + Nickel plated |
| M12 coupling nut torque   | 0.4 N*m               | 0.4 N*m               | 0.4 N*m               | 0.4 N*m               |
| Rated voltage             | 250V AC/DC            | 60V AC/DC             | 30V AC/DC             | 30V AC/DC             |
| Rated current             | 4A                    | 4A                    | 2A                    | 1.5A                  |
| Temperature range         | -40°C + 90°C          | -40°C + 90°C          | -40°C + 90°C          | -40°C + 90°C          |
| O-ring material           | NBR                   | NBR                   | NBR                   | NBR                   |
| Suitable cable            | ø 4 - 6mm             | ø 4 - 6mm             | ø 4 - 6mm             | ø 4 - 6mm             |
|                           |                       |                       |                       |                       |
|                           |                       |                       |                       |                       |

### Packaging

|         |            |            |            |            |
|---------|------------|------------|------------|------------|
| Qty/Bag | 1 pc / bag | 1 pc / bag | 1 pc / bag | 1 pc / bag |
|---------|------------|------------|------------|------------|

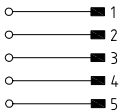
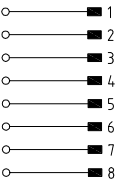
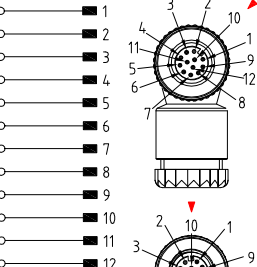
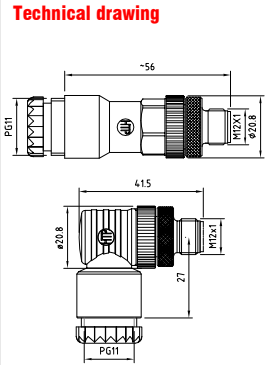
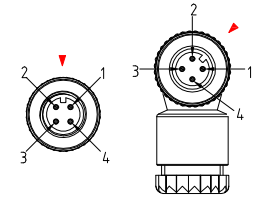
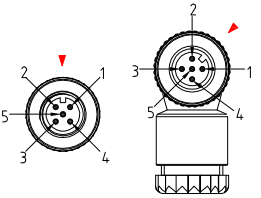
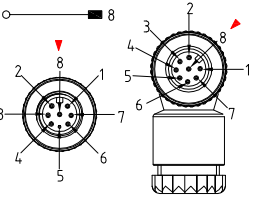
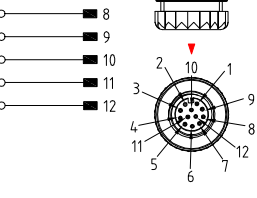
### Other accessories options

See accessories section

### Notes:

Connectors available with different features:  
See the general features and codification scheme page

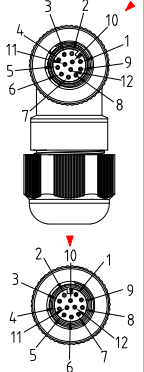
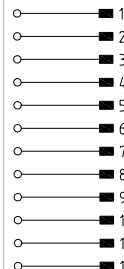
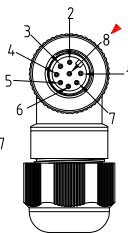
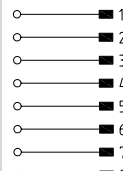
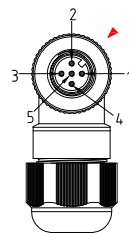
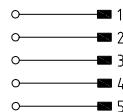
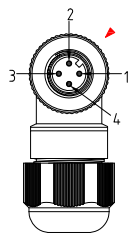
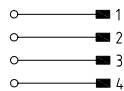
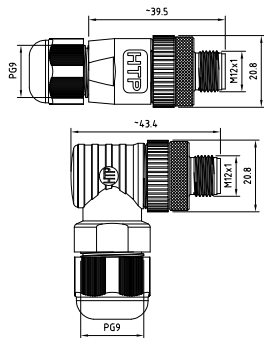


|                                                                                                                         |                                                |                                                                                   |  |                                                                                   |                 |                                                                                    |                                                |                                                                                     |  |
|-------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|-----------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------|-----------------|------------------------------------------------------------------------------------|------------------------------------------------|-------------------------------------------------------------------------------------|--|
| <b>Technical drawing</b>                                                                                                |                                                |  |  |  |                 |  |                                                |  |  |
|                                        |                                                |  |  |  |                 |  |                                                |  |  |
| <b>Product description</b>                                                                                              |                                                |                                                                                   |  |                                                                                   |                 |                                                                                    |                                                |                                                                                     |  |
| Connector type                                                                                                          | Circular connector field attachable            |                                                                                   |  | Circular connector field attachable                                               |                 |                                                                                    | Circular connector field attachable            |                                                                                     |  |
| Conforms to                                                                                                             | IEC 61076-2-101                                |                                                                                   |  | IEC 61076-2-101                                                                   |                 |                                                                                    | IEC 61076-2-101                                |                                                                                     |  |
| Construction type                                                                                                       | M12 A-Coded                                    |                                                                                   |  | M12 A-Coded                                                                       |                 |                                                                                    | M12 A-Coded                                    |                                                                                     |  |
| Part number                                                                                                             | <b>12ML4000</b>                                | <b>12MU4000</b>                                                                   |  | <b>12ML5000</b>                                                                   | <b>12MU5000</b> |                                                                                    | <b>12ML8000</b>                                | <b>12MU8000</b>                                                                     |  |
| Housing type                                                                                                            | Straight 180°                                  | Angled 90°                                                                        |  | Straight 180°                                                                     | Angled 90°      |                                                                                    | Straight 180°                                  | Angled 90°                                                                          |  |
| Cable gland                                                                                                             | PG9-11 unified /Double cable exit              |                                                                                   |  | PG9-11 unified /Double cable exit                                                 |                 |                                                                                    | PG9-11 unified /Double cable exit              |                                                                                     |  |
| Description                                                                                                             | Circular connector M12 series field attachable |                                                                                   |  | Circular connector M12 series field attachable                                    |                 |                                                                                    | Circular connector M12 series field attachable |                                                                                     |  |
| Contacts type                                                                                                           | Male                                           |                                                                                   |  | Male                                                                              |                 |                                                                                    | Male                                           |                                                                                     |  |
| Number of contacts                                                                                                      | 4poles                                         |                                                                                   |  | 5poles                                                                            |                 |                                                                                    | 8poles                                         |                                                                                     |  |
| Housing colour                                                                                                          | Black                                          |                                                                                   |  | Black                                                                             |                 |                                                                                    | Black                                          |                                                                                     |  |
| <b>Technical data</b>                                                                                                   |                                                |                                                                                   |  |                                                                                   |                 |                                                                                    |                                                |                                                                                     |  |
| Type of termination                                                                                                     | Screw contacts                                 |                                                                                   |  | Screw contacts                                                                    |                 |                                                                                    | Screw contacts                                 |                                                                                     |  |
| Contact screw torque                                                                                                    | 0.2 N*m                                        |                                                                                   |  | 0.2 N*m                                                                           |                 |                                                                                    | 0.2 N*m                                        |                                                                                     |  |
| Housing material                                                                                                        | PA66 UL94-V2                                   |                                                                                   |  | PA66 UL94-V2                                                                      |                 |                                                                                    | PA66 UL94-V2                                   |                                                                                     |  |
| Contacts material                                                                                                       | Brass + Gold flash                             |                                                                                   |  | Brass + Gold flash                                                                |                 |                                                                                    | Brass + Gold flash                             |                                                                                     |  |
| Coupling nut type                                                                                                       | Knurl round                                    |                                                                                   |  | Knurl round                                                                       |                 |                                                                                    | Knurl round                                    |                                                                                     |  |
| M8 coupling nut material                                                                                                | Brass + Nickel plated                          |                                                                                   |  | Brass + Nickel plated                                                             |                 |                                                                                    | Brass + Nickel plated                          |                                                                                     |  |
| M8 coupling nut torque                                                                                                  | 0.4 N*m                                        |                                                                                   |  | 0.4 N*m                                                                           |                 |                                                                                    | 0.4 N*m                                        |                                                                                     |  |
| Rated voltage                                                                                                           | 250V AC/DC                                     |                                                                                   |  | 60V AC/DC                                                                         |                 |                                                                                    | 30V AC/DC                                      |                                                                                     |  |
| Rated current                                                                                                           | 4A                                             |                                                                                   |  | 4A                                                                                |                 |                                                                                    | 2A                                             |                                                                                     |  |
| Temperature range                                                                                                       | -40°C + 90°C                                   |                                                                                   |  | -40°C + 90°C                                                                      |                 |                                                                                    | -40°C + 90°C                                   |                                                                                     |  |
| O-ring material                                                                                                         | NBR                                            |                                                                                   |  | NBR                                                                               |                 |                                                                                    | NBR                                            |                                                                                     |  |
| Suitable cable                                                                                                          | ø cable 6-10mm<br>Double exit ø5mm(max.)       |                                                                                   |  | ø cable 6-10mm<br>Double exit ø5mm(max.)                                          |                 |                                                                                    | ø cable 6-10mm<br>Double exit ø5mm(max.)       |                                                                                     |  |
| <b>Packaging</b>                                                                                                        |                                                |                                                                                   |  |                                                                                   |                 |                                                                                    |                                                |                                                                                     |  |
| Qty/Bag                                                                                                                 | 1 pc / bag                                     |                                                                                   |  | 1 pc / bag                                                                        |                 |                                                                                    | 1 pc / bag                                     |                                                                                     |  |
| <b>Other accessories options</b>                                                                                        |                                                |                                                                                   |  |                                                                                   |                 |                                                                                    |                                                |                                                                                     |  |
| See accessories section                                                                                                 |                                                |                                                                                   |  |                                                                                   |                 |                                                                                    |                                                |                                                                                     |  |
| <b>Notes:</b><br>Connectors available with different features:<br>See the general features and codification scheme page |                                                |                                                                                   |  |                                                                                   |                 |                                                                                    |                                                |                                                                                     |  |





#### Technical drawing



#### Product description

|                    |                                                |                    |                                                |                    |                                                |                    |                                                |                     |
|--------------------|------------------------------------------------|--------------------|------------------------------------------------|--------------------|------------------------------------------------|--------------------|------------------------------------------------|---------------------|
| Connector type     | Circular connector field attachable            |                    | Circular connector field attachable            |                    | Circular connector field attachable            |                    | Circular connector field attachable            |                     |
| Conforms to        | IEC 61076-2-101                                |                    | IEC 61076-2-101                                |                    | IEC 61076-2-101                                |                    | IEC 61076-2-101                                |                     |
| Construction type  | M12 A-Coded                                    |                    | M12 A-Coded                                    |                    | M12 A-Coded                                    |                    | M12 A-Coded                                    |                     |
| Part number        | <b>12MC4000-SK</b>                             | <b>12MB4000-SK</b> | <b>12MC5000-SK</b>                             | <b>12MB5000-SK</b> | <b>12MC8000-SK</b>                             | <b>12MB8000-SK</b> | <b>12MC12000-SK</b>                            | <b>12MB12000-SK</b> |
| Housing type       | Straight 180°                                  | Angled 90°         | Straight 180°                                  | Angled 90°         | Straight 180°                                  | Angled 90°         | Straight 180°                                  | Angled 90°          |
| Cable gland        | PG9 SK model                                   |                    | PG9 SK model                                   |                    | PG9 SK model                                   |                    | PG9 SK model                                   |                     |
| Description        | Circular connector M12 series field attachable |                    | Circular connector M12 series field attachable |                    | Circular connector M12 series field attachable |                    | Circular connector M12 series field attachable |                     |
| Contacts type      | Male                                           |                    | Male                                           |                    | Male                                           |                    | Male                                           |                     |
| Number of contacts | 4poles                                         |                    | 5poles                                         |                    | 8poles                                         |                    | 12poles                                        |                     |
| Housing colour     | Black                                          |                    | Black                                          |                    | Black                                          |                    | Black                                          |                     |

#### Technical data

|                           |                       |                       |                       |                       |
|---------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Type of termination       | Screw contacts        | Screw contacts        | Screw contacts        | Solder contacts       |
| Contact screw torque      | 0.2 N*m               | 0.2 N*m               | 0.2 N*m               | -                     |
| Housing material          | PA66 UL94-V2          | PA66 UL94-V2          | PA66 UL94-V2          | PA66 UL94-V2          |
| Contacts material         | Brass + Gold flash    | Brass + Gold flash    | Brass + Gold flash    | Brass + Gold flash    |
| Coupling nut type         | Knurl round           | Knurl round           | Knurl round           | Knurl round           |
| M12 coupling nut material | Brass + Nickel plated | Brass + Nickel plated | Brass + Nickel plated | Brass + Nickel plated |
| M12 coupling nut torque   | 0.4 N*m               | 0.4 N*m               | 0.4 N*m               | 0.4 N*m               |
| Rated voltage             | 250V AC/DC            | 60V AC/DC             | 30V AC/DC             | 30V AC/DC             |
| Rated current             | 4A                    | 4A                    | 2A                    | 1.5A                  |
| Temperature range         | -40°C + 90°C          | -40°C + 90°C          | -40°C + 90°C          | -40°C + 90°C          |
| O-ring material           | NBR                   | NBR                   | NBR                   | NBR                   |
| Suitable cable            | ø 4 - 8.6mm           | ø 4 - 8.6mm           | ø 4 - 8.6mm           | ø 4 - 8.6mm           |
|                           |                       |                       |                       |                       |
|                           |                       |                       |                       |                       |

#### Packaging

|         |            |            |            |            |
|---------|------------|------------|------------|------------|
| Qty/Bag | 1 pc / bag | 1 pc / bag | 1 pc / bag | 1 pc / bag |
|---------|------------|------------|------------|------------|

#### Other accessories options

See accessories section

#### Notes:

Connectors available with different features:  
See the general features and codification scheme page

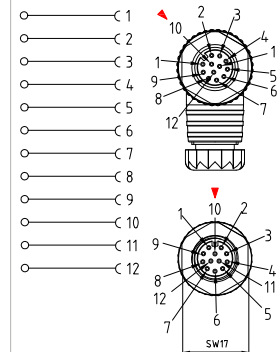
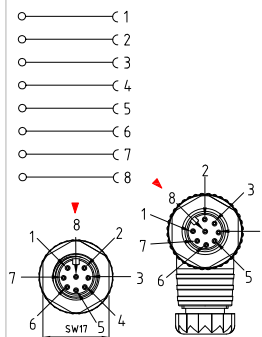
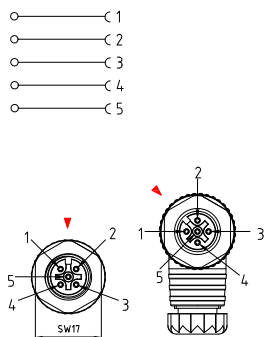
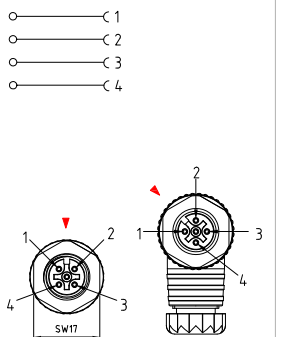
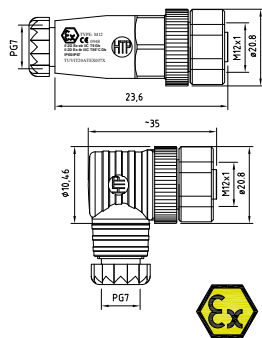


|                                                       |                                                                 |  |                 |                                                                 |  |                 |                                                                 |  |                 |                                                                 |  |                  |
|-------------------------------------------------------|-----------------------------------------------------------------|--|-----------------|-----------------------------------------------------------------|--|-----------------|-----------------------------------------------------------------|--|-----------------|-----------------------------------------------------------------|--|------------------|
| <b>Technical drawing</b>                              |                                                                 |  |                 |                                                                 |  |                 |                                                                 |  |                 |                                                                 |  |                  |
|                                                       |                                                                 |  |                 |                                                                 |  |                 |                                                                 |  |                 |                                                                 |  |                  |
| <b>Product description</b>                            |                                                                 |  |                 |                                                                 |  |                 |                                                                 |  |                 |                                                                 |  |                  |
| Connector type                                        | Circular connector field attachable                             |  |                 | Circular connector field attachable                             |  |                 | Circular connector field attachable                             |  |                 | Circular connector field attachable                             |  |                  |
| Conforms to                                           | IEC 61076-2-101                                                 |  |                 | IEC 61076-2-101                                                 |  |                 | IEC 61076-2-101                                                 |  |                 | IEC 61076-2-101                                                 |  |                  |
| Construction type                                     | M12 A-Coded                                                     |  |                 | M12 A-Coded                                                     |  |                 | M12 A-Coded                                                     |  |                 | M12 A-Coded                                                     |  |                  |
| Part number                                           | <b>12F14000</b>                                                 |  | <b>12M14000</b> | <b>12F15000</b>                                                 |  | <b>12M15000</b> | <b>12F18000</b>                                                 |  | <b>12M18000</b> | <b>12F112000</b>                                                |  | <b>12M112000</b> |
| Housing type                                          | Straight 180°                                                   |  |                 | Straight 180°                                                   |  |                 | Straight 180°                                                   |  |                 | Straight 180°                                                   |  |                  |
| Cable gland                                           | PG9 standard                                                    |  |                 | PG9 standard                                                    |  |                 | PG9 standard                                                    |  |                 | PG9 standard                                                    |  |                  |
| Description                                           | Circular connector M12 series field attachable TOTALLY SHIELDED |  |                 | Circular connector M12 series field attachable TOTALLY SHIELDED |  |                 | Circular connector M12 series field attachable TOTALLY SHIELDED |  |                 | Circular connector M12 series field attachable TOTALLY SHIELDED |  |                  |
| Contacts type                                         | Female                                                          |  | Male            | Female                                                          |  | Male            | Female                                                          |  | Male            | Female                                                          |  | Male             |
| Number of contacts                                    | 4poles                                                          |  |                 | 5poles                                                          |  |                 | 8poles                                                          |  |                 | 12poles                                                         |  |                  |
| Housing colour                                        | Black                                                           |  |                 | Black                                                           |  |                 | Black                                                           |  |                 | Black                                                           |  |                  |
| <b>Technical data</b>                                 |                                                                 |  |                 |                                                                 |  |                 |                                                                 |  |                 |                                                                 |  |                  |
| Type of termination                                   | Screw contacts                                                  |  |                 | Screw contacts                                                  |  |                 | Screw contacts                                                  |  |                 | Solder contacts                                                 |  |                  |
| Contact screw torque                                  | 0.2 N*m                                                         |  |                 | 0.2 N*m                                                         |  |                 | 0.2 N*m                                                         |  |                 | -                                                               |  |                  |
| Housing material                                      | Brass + Nickel plated                                           |  |                 | Brass + Nickel plated                                           |  |                 | Brass + Nickel plated                                           |  |                 | Brass + Nickel plated                                           |  |                  |
| Contacts material                                     | Brass + Gold flash                                              |  |                 | Brass + Gold flash                                              |  |                 | Brass + Gold flash                                              |  |                 | Brass + Gold flash                                              |  |                  |
| Coupling nut type                                     | Knurl round                                                     |  |                 | Knurl round                                                     |  |                 | Knurl round                                                     |  |                 | Knurl round                                                     |  |                  |
| M8 coupling nut material                              | Brass + Nickel plated                                           |  |                 | Brass + Nickel plated                                           |  |                 | Brass + Nickel plated                                           |  |                 | Brass + Nickel plated                                           |  |                  |
| M8 coupling nut torque                                | 0.4 N*m                                                         |  |                 | 0.4 N*m                                                         |  |                 | 0.4 N*m                                                         |  |                 | 0.4 N*m                                                         |  |                  |
| Rated voltage                                         | 250V AC/DC                                                      |  |                 | 60V AC/DC                                                       |  |                 | 30V AC/DC                                                       |  |                 | 30V AC/DC                                                       |  |                  |
| Rated current                                         | 4A                                                              |  |                 | 4A                                                              |  |                 | 2A                                                              |  |                 | 1.5A                                                            |  |                  |
| Temperature range                                     | -25°C + 85°C                                                    |  |                 | -25°C + 85°C                                                    |  |                 | -25°C + 85°C                                                    |  |                 | -25°C + 85°C                                                    |  |                  |
| O-ring material                                       | NBR                                                             |  |                 | NBR                                                             |  |                 | NBR                                                             |  |                 | NBR                                                             |  |                  |
| Suitable cable                                        | ø 4 - 8mm                                                       |  |                 | ø 4 - 8mm                                                       |  |                 | ø 4 - 8mm                                                       |  |                 | ø 4 - 8mm                                                       |  |                  |
| <b>Packaging</b>                                      |                                                                 |  |                 |                                                                 |  |                 |                                                                 |  |                 |                                                                 |  |                  |
| Qty/Bag                                               | 1 pc / bag                                                      |  |                 | 1 pc / bag                                                      |  |                 | 1 pc / bag                                                      |  |                 | 1 pc / bag                                                      |  |                  |
| <b>Other accessories options</b>                      |                                                                 |  |                 |                                                                 |  |                 |                                                                 |  |                 |                                                                 |  |                  |
| See accessories section                               |                                                                 |  |                 |                                                                 |  |                 |                                                                 |  |                 |                                                                 |  |                  |
| <b>Notes:</b>                                         |                                                                 |  |                 |                                                                 |  |                 |                                                                 |  |                 |                                                                 |  |                  |
| Connectors available with different feautres:         |                                                                 |  |                 |                                                                 |  |                 |                                                                 |  |                 |                                                                 |  |                  |
| See the general features and codification scheme page |                                                                 |  |                 |                                                                 |  |                 |                                                                 |  |                 |                                                                 |  |                  |





### Technical drawing



### Product description

|                    |                                                              |                      |                                                              |                      |                                                              |                      |                                                              |                       |
|--------------------|--------------------------------------------------------------|----------------------|--------------------------------------------------------------|----------------------|--------------------------------------------------------------|----------------------|--------------------------------------------------------------|-----------------------|
| Connector type     | Circular connector field attachable                          |                      | Circular connector field attachable                          |                      | Circular connector field attachable                          |                      | Circular connector field attachable                          |                       |
| Conforms to        | IEC 61076-2-101                                              |                      | IEC 61076-2-101                                              |                      | IEC 61076-2-101                                              |                      | IEC 61076-2-101                                              |                       |
| Construction type  | M12 A-Coded                                                  |                      | M12 A-Coded                                                  |                      | M12 A-Coded                                                  |                      | M12 A-Coded                                                  |                       |
| Part number        | <b>12FC4000-ATEX</b>                                         | <b>12FB4000-ATEX</b> | <b>12FC5000-ATEX</b>                                         | <b>12FB5000-ATEX</b> | <b>12FC8000-ATEX</b>                                         | <b>12FB8000-ATEX</b> | <b>12FC12000-ATEX</b>                                        | <b>12FB12000-ATEX</b> |
| Housing type       | Straight 180°                                                | Angled 90°           | Straight 180°                                                | Angled 90°           | Straight 180°                                                | Angled 90°           | Straight 180°                                                | Angled 90°            |
| Cable gland        | PG7 standard                                                 |                      | PG7 standard                                                 |                      | PG7 standard                                                 |                      | PG7 standard                                                 |                       |
| Description        | Circular connector M12 series field attachable,ATEX conform. |                      | Circular connector M12 series field attachable,ATEX conform. |                      | Circular connector M12 series field attachable,ATEX conform. |                      | Circular connector M12 series field attachable,ATEX conform. |                       |
| Contacts type      | Female                                                       |                      | Female                                                       |                      | Female                                                       |                      | Female                                                       |                       |
| Number of contacts | 4poles                                                       |                      | 5poles                                                       |                      | 8poles                                                       |                      | 12poles                                                      |                       |
| Housing colour     | Black                                                        |                      | Black                                                        |                      | Black                                                        |                      | Black                                                        |                       |

### Technical data

|                           |                       |                       |                       |                       |
|---------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Type of termination       | Screw contacts        | Screw contacts        | Screw contacts        | Solder contacts       |
| Contact screw torque      | 0.2 N*m               | 0.2 N*m               | 0.2 N*m               | -                     |
| Housing material          | PA66 UL94-V0          | PA66 UL94-V0          | PA66 UL94-V0          | PA66 UL94-V0          |
| Contacts material         | Brass + Gold flash    | Brass + Gold flash    | Brass + Gold flash    | Brass + Gold flash    |
| Coupling nut type         | Hexagonal (SW17)      | Hexagonal (SW17)      | Hexagonal (SW17)      | Hexagonal (SW17)      |
| M12 coupling nut material | Brass + Nickel plated | Brass + Nickel plated | Brass + Nickel plated | Brass + Nickel plated |
| M12 coupling nut torque   | 0.6 N*m               | 0.6 N*m               | 0.6 N*m               | 0.6 N*m               |
| Rated voltage             | 250V AC/DC            | 125V AC/DC            | 60V AC/DC             | 30V AC/DC             |
| Rated current             | 4A                    | 4A                    | 2A                    | 1A                    |
| Temperature range         | -20°C + 85°C          | -20°C + 85°C          | -20°C + 85°C          | -20°C + 85°C          |
| O-ring material           | NBR                   | NBR                   | NBR                   | NBR                   |
| Suitable cable            | ø 4 - 6mm             | ø 4 - 6mm             | ø 4 - 6mm             | ø 4 - 6mm             |

### Packaging

|         |            |            |            |            |
|---------|------------|------------|------------|------------|
| Qty/Bag | 1 pc / bag | 1 pc / bag | 1 pc / bag | 1 pc / bag |
|---------|------------|------------|------------|------------|

### Other accessories options

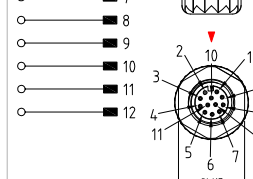
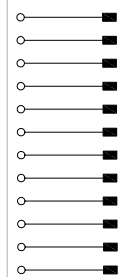
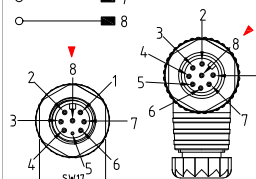
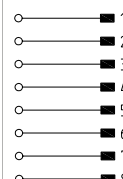
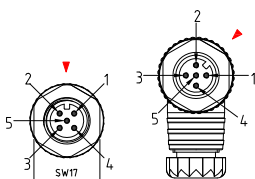
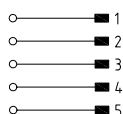
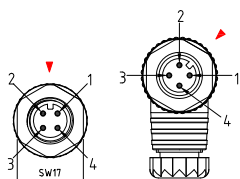
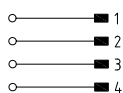
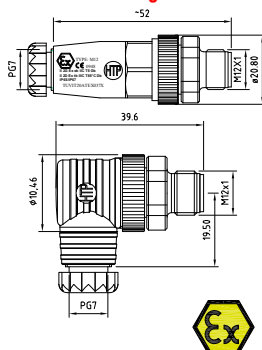
See accessories section

### Notes:

Connectors available with different features:  
See the general features and codification scheme page



### Technical drawing



### Product description

|                    |                                                              |                      |                                                              |                      |                                                              |                      |                                                              |                       |
|--------------------|--------------------------------------------------------------|----------------------|--------------------------------------------------------------|----------------------|--------------------------------------------------------------|----------------------|--------------------------------------------------------------|-----------------------|
| Connector type     | Circular connector field attachable                          |                      | Circular connector field attachable                          |                      | Circular connector field attachable                          |                      | Circular connector field attachable                          |                       |
| Conforms to        | IEC 61076-2-101                                              |                      | IEC 61076-2-101                                              |                      | IEC 61076-2-101                                              |                      | IEC 61076-2-101                                              |                       |
| Construction type  | M12 A-Coded                                                  |                      | M12 A-Coded                                                  |                      | M12 A-Coded                                                  |                      | M12 A-Coded                                                  |                       |
| Part number        | <b>12MC4000-ATEX</b>                                         | <b>12MB4000-ATEX</b> | <b>12MC5000-ATEX</b>                                         | <b>12MB5000-ATEX</b> | <b>12MC8000-ATEX</b>                                         | <b>12MB8000-ATEX</b> | <b>12MC12000-ATEX</b>                                        | <b>12MB12000-ATEX</b> |
| Housing type       | Straight 180°                                                | Angled 90°           | Straight 180°                                                | Angled 90°           | Straight 180°                                                | Angled 90°           | Straight 180°                                                | Angled 90°            |
| Cable gland        | PG7 standard                                                 |                      | PG7 standard                                                 |                      | PG7 standard                                                 |                      | PG7 standard                                                 |                       |
| Description        | Circular connector M12 series field attachable,ATEX conform. |                      | Circular connector M12 series field attachable,ATEX conform. |                      | Circular connector M12 series field attachable,ATEX conform. |                      | Circular connector M12 series field attachable,ATEX conform. |                       |
| Contacts type      | Male                                                         |                      | Male                                                         |                      | Male                                                         |                      | Male                                                         |                       |
| Number of contacts | 4poles                                                       |                      | 5poles                                                       |                      | 8poles                                                       |                      | 12poles                                                      |                       |
| Housing colour     | Black                                                        |                      | Black                                                        |                      | Black                                                        |                      | Black                                                        |                       |

### Technical data

|                           |                       |  |                       |  |                       |  |                       |  |
|---------------------------|-----------------------|--|-----------------------|--|-----------------------|--|-----------------------|--|
| Type of termination       | Screw contacts        |  | Screw contacts        |  | Screw contacts        |  | Solder contacts       |  |
| Contact screw torque      | 0.2 N*m               |  | 0.2 N*m               |  | 0.2 N*m               |  | -                     |  |
| Housing material          | PA66 UL94-V0          |  | PA66 UL94-V0          |  | PA66 UL94-V0          |  | PA66 UL94-V0          |  |
| Contacts material         | Brass + Gold flash    |  | Brass + Gold flash    |  | Brass + Gold flash    |  | Brass + Gold flash    |  |
| Coupling nut type         | Hexagonal (SW17)      |  | Hexagonal (SW17)      |  | Hexagonal (SW17)      |  | Hexagonal (SW17)      |  |
| M12 coupling nut material | Brass + Nickel plated |  | Brass + Nickel plated |  | Brass + Nickel plated |  | Brass + Nickel plated |  |
| M12 coupling nut torque   | 0.6 N*m               |  | 0.6 N*m               |  | 0.6 N*m               |  | 0.6 N*m               |  |
| Rated voltage             | 250V AC/DC            |  | 125V AC/DC            |  | 60V AC/DC             |  | 30V AC/DC             |  |
| Rated current             | 4A                    |  | 4A                    |  | 2A                    |  | 1A                    |  |
| Temperature range         | -20°C + 85°C          |  | -20°C + 85°C          |  | -20°C + 85°C          |  | -20°C + 85°C          |  |
| O-ring material           | NBR                   |  | NBR                   |  | NBR                   |  | NBR                   |  |
| Suitable cable            | ø 4 - 6mm             |  | ø 4 - 6mm             |  | ø 4 - 6mm             |  | ø 4 - 6mm             |  |

### Packaging

|         |            |            |            |            |
|---------|------------|------------|------------|------------|
| Qty/Bag | 1 pc / bag | 1 pc / bag | 1 pc / bag | 1 pc / bag |
|---------|------------|------------|------------|------------|

### Other accessories options

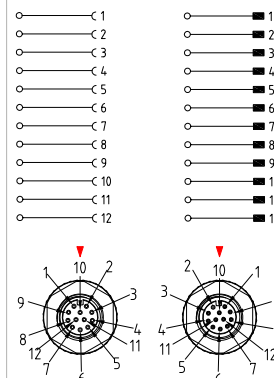
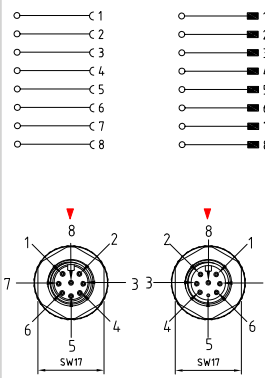
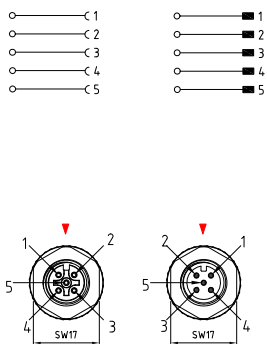
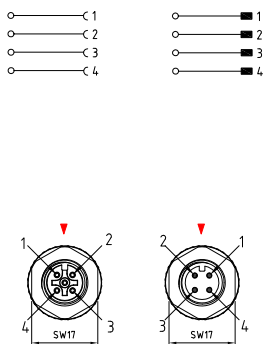
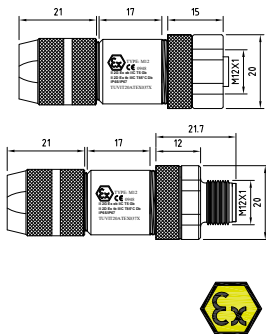
See accessories section

### Note:

Connectors available with different features:  
See the general features and codification scheme page



#### Technical drawing



#### Product description

|                    |                                                                                |                      |                                                                                |                      |                                                                                |                      |                                                                                |                       |
|--------------------|--------------------------------------------------------------------------------|----------------------|--------------------------------------------------------------------------------|----------------------|--------------------------------------------------------------------------------|----------------------|--------------------------------------------------------------------------------|-----------------------|
| Connector type     | Circular connector field attachable                                            |                      | Circular connector field attachable                                            |                      | Circular connector field attachable                                            |                      | Circular connector field attachable                                            |                       |
| Conforms to        | IEC 61076-2-101                                                                |                      | IEC 61076-2-101                                                                |                      | IEC 61076-2-101                                                                |                      | IEC 61076-2-101                                                                |                       |
| Construction type  | M12 A-Coded                                                                    |                      | M12 A-Coded                                                                    |                      | M12 A-Coded                                                                    |                      | M12 A-Coded                                                                    |                       |
| Part number        | <b>12F14000-ATEX</b>                                                           | <b>12M14000-ATEX</b> | <b>12F15000-ATEX</b>                                                           | <b>12M15000-ATEX</b> | <b>12F18000-ATEX</b>                                                           | <b>12M18000-ATEX</b> | <b>12F112000-ATEX</b>                                                          | <b>12M112000-ATEX</b> |
| Housing type       | Straight 180°                                                                  |                      | Straight 180°                                                                  |                      | Straight 180°                                                                  |                      | Straight 180°                                                                  |                       |
| Cable gland        | PG9 standard                                                                   |                      | PG9 standard                                                                   |                      | PG9 standard                                                                   |                      | PG9 standard                                                                   |                       |
| Description        | Circular connector M12 series field attachable TOTALLY SHIELDED, ATEX conform. |                      | Circular connector M12 series field attachable TOTALLY SHIELDED, ATEX conform. |                      | Circular connector M12 series field attachable TOTALLY SHIELDED, ATEX conform. |                      | Circular connector M12 series field attachable TOTALLY SHIELDED, ATEX conform. |                       |
| Contacts type      | Female                                                                         | Male                 | Female                                                                         | Male                 | Female                                                                         | Male                 | Female                                                                         | Male                  |
| Number of contacts | 4poles                                                                         |                      | 5poles                                                                         |                      | 8poles                                                                         |                      | 12poles                                                                        |                       |
| Housing colour     | Metal                                                                          |                      | Metal                                                                          |                      | Metal                                                                          |                      | Metal                                                                          |                       |

#### Technical data

|                           |                       |  |                       |  |                       |  |                       |  |
|---------------------------|-----------------------|--|-----------------------|--|-----------------------|--|-----------------------|--|
| Type of termination       | Screw contacts        |  | Screw contacts        |  | Screw contacts        |  | Solder contacts       |  |
| Contact screw torque      | 0.2 N*m               |  | 0.2 N*m               |  | 0.2 N*m               |  | -                     |  |
| Housing material          | Brass + Nickel plated |  | Brass + Nickel plated |  | Brass + Nickel plated |  | Brass + Nickel plated |  |
| Contacts material         | Brass + Gold flash    |  | Brass + Gold flash    |  | Brass + Gold flash    |  | Brass + Gold flash    |  |
| Coupling nut type         | Hexagonal (SW17)      |  | Hexagonal (SW17)      |  | Hexagonal (SW17)      |  | Hexagonal (SW17)      |  |
| M12 coupling nut material | Brass + Nickel plated |  | Brass + Nickel plated |  | Brass + Nickel plated |  | Brass + Nickel plated |  |
| M12 coupling nut torque   | 0.6 N*m               |  | 0.6 N*m               |  | 0.6 N*m               |  | 0.6 N*m               |  |
| Rated voltage             | 250V AC/DC            |  | 125V AC/DC            |  | 60V AC/DC             |  | 30V AC/DC             |  |
| Rated current             | 4A                    |  | 4A                    |  | 2A                    |  | 1A                    |  |
| Temperature range         | -20°C + 85°C          |  | -20°C + 85°C          |  | -20°C + 85°C          |  | -20°C + 85°C          |  |
| O-ring material           | NBR                   |  | NBR                   |  | NBR                   |  | NBR                   |  |
| Suitable cable            | ø 4 - 8mm             |  | ø 4 - 8mm             |  | ø 4 - 8mm             |  | ø 4 - 8mm             |  |

#### Packaging

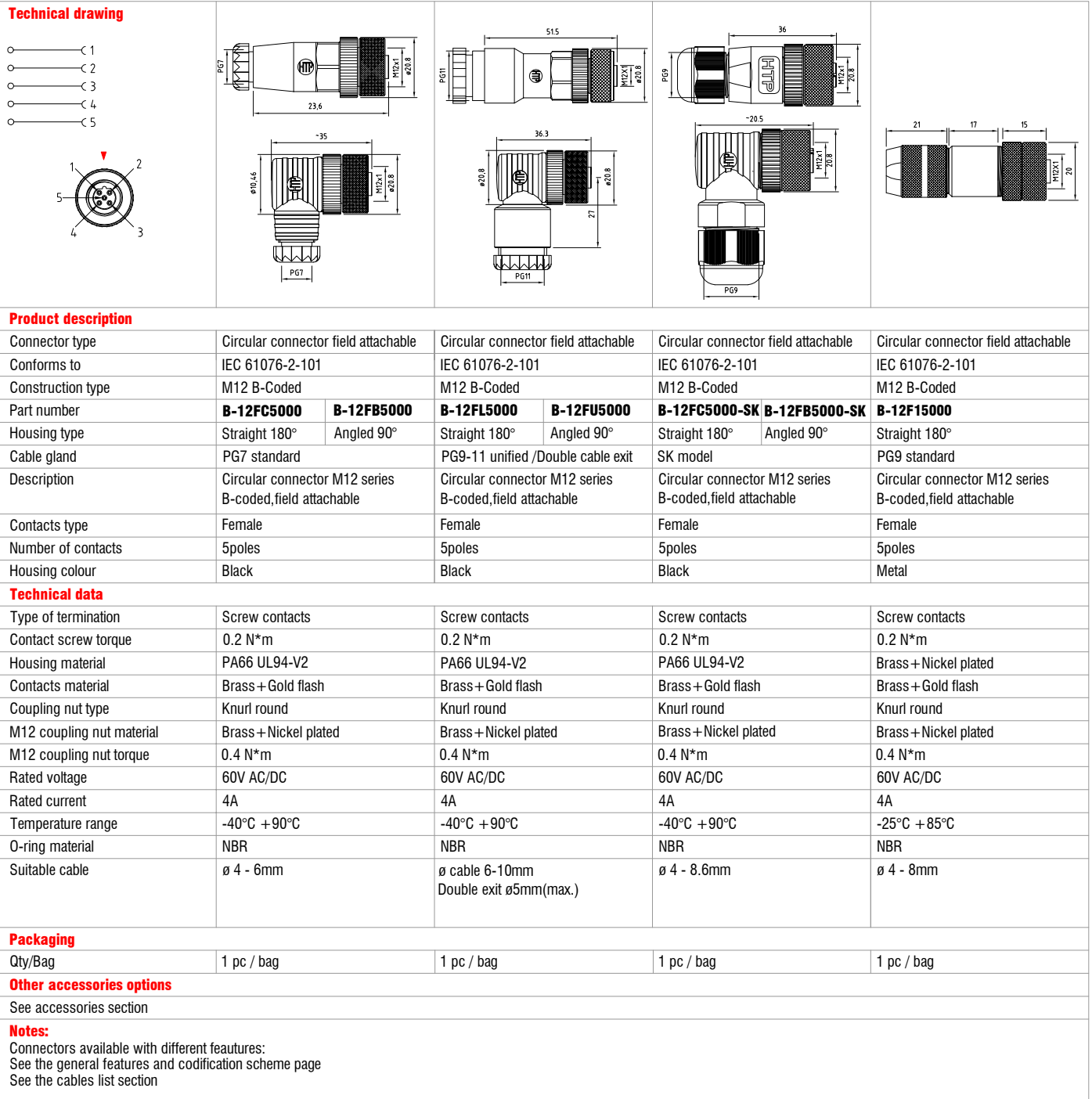
|         |            |            |            |            |
|---------|------------|------------|------------|------------|
| Qty/Bag | 1 pc / bag | 1 pc / bag | 1 pc / bag | 1 pc / bag |
|---------|------------|------------|------------|------------|

#### Other accessories options

See accessories section

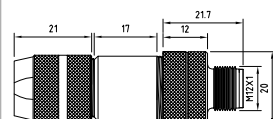
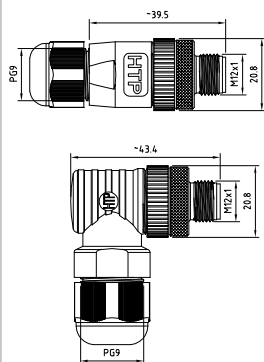
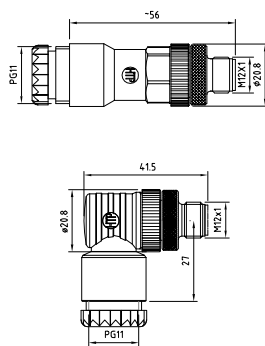
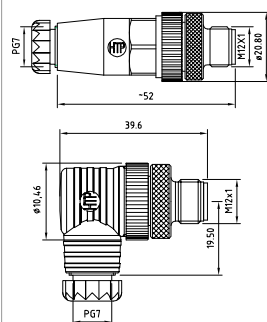
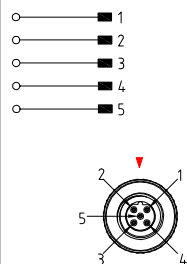
#### Notes:

Connectors available with different features:  
See the general features and codification scheme page





#### Technical drawing



#### Product description

|                    |                                                        |                   |                                                        |                   |                                                        |                      |                                                        |
|--------------------|--------------------------------------------------------|-------------------|--------------------------------------------------------|-------------------|--------------------------------------------------------|----------------------|--------------------------------------------------------|
| Connector type     | Circular connector field attachable                    |                   | Circular connector field attachable                    |                   | Circular connector field attachable                    |                      | Circular connector field attachable                    |
| Conforms to        | IEC 61076-2-101                                        |                   | IEC 61076-2-101                                        |                   | IEC 61076-2-101                                        |                      | IEC 61076-2-101                                        |
| Construction type  | M12 B-Coded                                            |                   | M12 B-Coded                                            |                   | M12 B-Coded                                            |                      | M12 B-Coded                                            |
| Part number        | <b>B-12MC5000</b>                                      | <b>B-12MB5000</b> | <b>B-12ML5000</b>                                      | <b>B-12MU5000</b> | <b>B-12MC5000-SK</b>                                   | <b>B-12MB5000-SK</b> | <b>B-12M15000</b>                                      |
| Housing type       | Straight 180°                                          | Angled 90°        | Straight 180°                                          | Angled 90°        | Straight 180°                                          | Angled 90°           | Straight 180°                                          |
| Cable gland        | PG7 standard                                           |                   | PG9-11 unified /Double cable exit                      |                   | SK model                                               |                      | PG9 standard                                           |
| Description        | Circular connector M12 series B-coded,field attachable |                   | Circular connector M12 series B-coded,field attachable |                   | Circular connector M12 series B-coded,field attachable |                      | Circular connector M12 series B-coded,field attachable |
| Contacts type      | Male                                                   |                   | Male                                                   |                   | Male                                                   |                      | Male                                                   |
| Number of contacts | 5poles                                                 |                   | 5poles                                                 |                   | 5poles                                                 |                      | 5poles                                                 |
| Housing colour     | Black                                                  |                   | Black                                                  |                   | Black                                                  |                      | Metal                                                  |

#### Technical data

|                           |                       |  |                                                           |  |                       |  |                       |
|---------------------------|-----------------------|--|-----------------------------------------------------------|--|-----------------------|--|-----------------------|
| Type of termination       | Screw contacts        |  | Screw contacts                                            |  | Screw contacts        |  | Screw contacts        |
| Contact screw torque      | 0.2 N*m               |  | 0.2 N*m                                                   |  | 0.2 N*m               |  | 0.2 N*m               |
| Housing material          | PA66 UL94-V2          |  | PA66 UL94-V2                                              |  | PA66 UL94-V2          |  | Brass + Nickel plated |
| Contacts material         | Brass + Gold flash    |  | Brass + Gold flash                                        |  | Brass + Gold flash    |  | Brass + Gold flash    |
| Coupling nut type         | Knurl round           |  | Knurl round                                               |  | Knurl round           |  | Knurl round           |
| M12 coupling nut material | Brass + Nickel plated |  | Brass + Nickel plated                                     |  | Brass + Nickel plated |  | Brass + Nickel plated |
| M12 coupling nut torque   | 0.4 N*m               |  | 0.4 N*m                                                   |  | 0.4 N*m               |  | 0.4 N*m               |
| Rated voltage             | 60V AC/DC             |  | 60V AC/DC                                                 |  | 60V AC/DC             |  | 60V AC/DC             |
| Rated current             | 4A                    |  | 4A                                                        |  | 4A                    |  | 4A                    |
| Temperature range         | -40°C + 90°C          |  | -40°C + 90°C                                              |  | -40°C + 90°C          |  | -25°C + 85°C          |
| O-ring material           | NBR                   |  | NBR                                                       |  | NBR                   |  | NBR                   |
| Suitable cable            | ø 4 - 6mm             |  | ø cable 4-8mm<br>ø cable 6-10mm<br>Double exit ø5mm(max.) |  | ø 4 - 8.6mm           |  | ø 4 - 8mm             |

#### Packaging

|         |            |            |            |            |
|---------|------------|------------|------------|------------|
| Qty/Bag | 1 pc / bag | 1 pc / bag | 1 pc / bag | 1 pc / bag |
|---------|------------|------------|------------|------------|

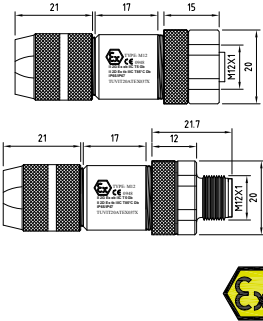
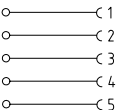
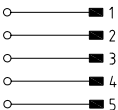
#### Other accessories options

See accessories section

#### Notes:

Connectors available with different features:  
See the general features and codification scheme page  
See the cables list section



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                   |                                                                                                                                                                                           |  |  |                     |                                     |                                     |  |                      |                 |                 |  |                   |                       |                       |  |                   |                        |                        |  |                   |                  |                  |  |                           |                       |                       |  |                         |                                                                   |                                                                   |  |               |            |            |  |                    |        |        |  |                   |             |             |  |                 |     |     |  |                |           |           |  |  |  |  |  |  |  |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|---------------------|-------------------------------------|-------------------------------------|--|----------------------|-----------------|-----------------|--|-------------------|-----------------------|-----------------------|--|-------------------|------------------------|------------------------|--|-------------------|------------------|------------------|--|---------------------------|-----------------------|-----------------------|--|-------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------|--|---------------|------------|------------|--|--------------------|--------|--------|--|-------------------|-------------|-------------|--|-----------------|-----|-----|--|----------------|-----------|-----------|--|--|--|--|--|--|--|--|--|
| <div>Technical drawing</div> <div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                   | <div></div> <div></div> |  |  |                     |                                     |                                     |  |                      |                 |                 |  |                   |                       |                       |  |                   |                        |                        |  |                   |                  |                  |  |                           |                       |                       |  |                         |                                                                   |                                                                   |  |               |            |            |  |                    |        |        |  |                   |             |             |  |                 |     |     |  |                |           |           |  |  |  |  |  |  |  |  |  |
| <div>Product description</div> <table><tr><td>Connector type</td><td>Circular connector field attachable</td><td>Circular connector field attachable</td><td></td></tr><tr><td>Conforms to</td><td>IEC 61076-2-101</td><td>IEC 61076-2-101</td><td></td></tr><tr><td>Construction type</td><td>M12 B-Coded</td><td>M12 B-Coded</td><td></td></tr><tr><td>Part number</td><td><b>B-12F15000-ATEX</b></td><td><b>B-12M15000-ATEX</b></td><td></td></tr><tr><td>Housing type</td><td>Straight 180°</td><td>Straight 180°</td><td></td></tr><tr><td>Cable gland</td><td>PG9 standard</td><td>PG9 standard</td><td></td></tr><tr><td>Description</td><td>Circular connector M12 series B-coded,ATEX conf.,field attachable</td><td>Circular connector M12 series B-coded,ATEX conf.,field attachable</td><td></td></tr><tr><td>Contacts type</td><td>Female</td><td>Male</td><td></td></tr><tr><td>Number of contacts</td><td>5poles</td><td>5poles</td><td></td></tr><tr><td>Housing colour</td><td>Metal</td><td>Metal</td><td></td></tr></table>                                                                                                                                                         |                                                                   |                                                                                                                                                                                           |  |  | Connector type      | Circular connector field attachable | Circular connector field attachable |  | Conforms to          | IEC 61076-2-101 | IEC 61076-2-101 |  | Construction type | M12 B-Coded           | M12 B-Coded           |  | Part number       | <b>B-12F15000-ATEX</b> | <b>B-12M15000-ATEX</b> |  | Housing type      | Straight 180°    | Straight 180°    |  | Cable gland               | PG9 standard          | PG9 standard          |  | Description             | Circular connector M12 series B-coded,ATEX conf.,field attachable | Circular connector M12 series B-coded,ATEX conf.,field attachable |  | Contacts type | Female     | Male       |  | Number of contacts | 5poles | 5poles |  | Housing colour    | Metal       | Metal       |  |                 |     |     |  |                |           |           |  |  |  |  |  |  |  |  |  |
| Connector type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Circular connector field attachable                               | Circular connector field attachable                                                                                                                                                       |  |  |                     |                                     |                                     |  |                      |                 |                 |  |                   |                       |                       |  |                   |                        |                        |  |                   |                  |                  |  |                           |                       |                       |  |                         |                                                                   |                                                                   |  |               |            |            |  |                    |        |        |  |                   |             |             |  |                 |     |     |  |                |           |           |  |  |  |  |  |  |  |  |  |
| Conforms to                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | IEC 61076-2-101                                                   | IEC 61076-2-101                                                                                                                                                                           |  |  |                     |                                     |                                     |  |                      |                 |                 |  |                   |                       |                       |  |                   |                        |                        |  |                   |                  |                  |  |                           |                       |                       |  |                         |                                                                   |                                                                   |  |               |            |            |  |                    |        |        |  |                   |             |             |  |                 |     |     |  |                |           |           |  |  |  |  |  |  |  |  |  |
| Construction type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | M12 B-Coded                                                       | M12 B-Coded                                                                                                                                                                               |  |  |                     |                                     |                                     |  |                      |                 |                 |  |                   |                       |                       |  |                   |                        |                        |  |                   |                  |                  |  |                           |                       |                       |  |                         |                                                                   |                                                                   |  |               |            |            |  |                    |        |        |  |                   |             |             |  |                 |     |     |  |                |           |           |  |  |  |  |  |  |  |  |  |
| Part number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>B-12F15000-ATEX</b>                                            | <b>B-12M15000-ATEX</b>                                                                                                                                                                    |  |  |                     |                                     |                                     |  |                      |                 |                 |  |                   |                       |                       |  |                   |                        |                        |  |                   |                  |                  |  |                           |                       |                       |  |                         |                                                                   |                                                                   |  |               |            |            |  |                    |        |        |  |                   |             |             |  |                 |     |     |  |                |           |           |  |  |  |  |  |  |  |  |  |
| Housing type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Straight 180°                                                     | Straight 180°                                                                                                                                                                             |  |  |                     |                                     |                                     |  |                      |                 |                 |  |                   |                       |                       |  |                   |                        |                        |  |                   |                  |                  |  |                           |                       |                       |  |                         |                                                                   |                                                                   |  |               |            |            |  |                    |        |        |  |                   |             |             |  |                 |     |     |  |                |           |           |  |  |  |  |  |  |  |  |  |
| Cable gland                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | PG9 standard                                                      | PG9 standard                                                                                                                                                                              |  |  |                     |                                     |                                     |  |                      |                 |                 |  |                   |                       |                       |  |                   |                        |                        |  |                   |                  |                  |  |                           |                       |                       |  |                         |                                                                   |                                                                   |  |               |            |            |  |                    |        |        |  |                   |             |             |  |                 |     |     |  |                |           |           |  |  |  |  |  |  |  |  |  |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Circular connector M12 series B-coded,ATEX conf.,field attachable | Circular connector M12 series B-coded,ATEX conf.,field attachable                                                                                                                         |  |  |                     |                                     |                                     |  |                      |                 |                 |  |                   |                       |                       |  |                   |                        |                        |  |                   |                  |                  |  |                           |                       |                       |  |                         |                                                                   |                                                                   |  |               |            |            |  |                    |        |        |  |                   |             |             |  |                 |     |     |  |                |           |           |  |  |  |  |  |  |  |  |  |
| Contacts type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Female                                                            | Male                                                                                                                                                                                      |  |  |                     |                                     |                                     |  |                      |                 |                 |  |                   |                       |                       |  |                   |                        |                        |  |                   |                  |                  |  |                           |                       |                       |  |                         |                                                                   |                                                                   |  |               |            |            |  |                    |        |        |  |                   |             |             |  |                 |     |     |  |                |           |           |  |  |  |  |  |  |  |  |  |
| Number of contacts                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 5poles                                                            | 5poles                                                                                                                                                                                    |  |  |                     |                                     |                                     |  |                      |                 |                 |  |                   |                       |                       |  |                   |                        |                        |  |                   |                  |                  |  |                           |                       |                       |  |                         |                                                                   |                                                                   |  |               |            |            |  |                    |        |        |  |                   |             |             |  |                 |     |     |  |                |           |           |  |  |  |  |  |  |  |  |  |
| Housing colour                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Metal                                                             | Metal                                                                                                                                                                                     |  |  |                     |                                     |                                     |  |                      |                 |                 |  |                   |                       |                       |  |                   |                        |                        |  |                   |                  |                  |  |                           |                       |                       |  |                         |                                                                   |                                                                   |  |               |            |            |  |                    |        |        |  |                   |             |             |  |                 |     |     |  |                |           |           |  |  |  |  |  |  |  |  |  |
| <div>Technical data</div> <table><tr><td>Type of termination</td><td>Screw contacts</td><td>Screw contacts</td><td></td></tr><tr><td>Contact screw torque</td><td>0.2 N*m</td><td>0.2 N*m</td><td></td></tr><tr><td>Housing material</td><td>Brass + Nickel plated</td><td>Brass + Nickel plated</td><td></td></tr><tr><td>Contacts material</td><td>Brass + Gold flash</td><td>Brass + Gold flash</td><td></td></tr><tr><td>Coupling nut type</td><td>Hexagonal (SW17)</td><td>Hexagonal (SW17)</td><td></td></tr><tr><td>M12 coupling nut material</td><td>Brass + Nickel plated</td><td>Brass + Nickel plated</td><td></td></tr><tr><td>M12 coupling nut torque</td><td>0.6 N*m</td><td>0.6 N*m</td><td></td></tr><tr><td>Rated voltage</td><td>125V AC/DC</td><td>125V AC/DC</td><td></td></tr><tr><td>Rated current</td><td>4A</td><td>4A</td><td></td></tr><tr><td>Temperature range</td><td>-20°C +85°C</td><td>-20°C +85°C</td><td></td></tr><tr><td>O-ring material</td><td>NBR</td><td>NBR</td><td></td></tr><tr><td>Suitable cable</td><td>ø 4 - 8mm</td><td>ø 4 - 8mm</td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr></table> |                                                                   |                                                                                                                                                                                           |  |  | Type of termination | Screw contacts                      | Screw contacts                      |  | Contact screw torque | 0.2 N*m         | 0.2 N*m         |  | Housing material  | Brass + Nickel plated | Brass + Nickel plated |  | Contacts material | Brass + Gold flash     | Brass + Gold flash     |  | Coupling nut type | Hexagonal (SW17) | Hexagonal (SW17) |  | M12 coupling nut material | Brass + Nickel plated | Brass + Nickel plated |  | M12 coupling nut torque | 0.6 N*m                                                           | 0.6 N*m                                                           |  | Rated voltage | 125V AC/DC | 125V AC/DC |  | Rated current      | 4A     | 4A     |  | Temperature range | -20°C +85°C | -20°C +85°C |  | O-ring material | NBR | NBR |  | Suitable cable | ø 4 - 8mm | ø 4 - 8mm |  |  |  |  |  |  |  |  |  |
| Type of termination                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Screw contacts                                                    | Screw contacts                                                                                                                                                                            |  |  |                     |                                     |                                     |  |                      |                 |                 |  |                   |                       |                       |  |                   |                        |                        |  |                   |                  |                  |  |                           |                       |                       |  |                         |                                                                   |                                                                   |  |               |            |            |  |                    |        |        |  |                   |             |             |  |                 |     |     |  |                |           |           |  |  |  |  |  |  |  |  |  |
| Contact screw torque                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.2 N*m                                                           | 0.2 N*m                                                                                                                                                                                   |  |  |                     |                                     |                                     |  |                      |                 |                 |  |                   |                       |                       |  |                   |                        |                        |  |                   |                  |                  |  |                           |                       |                       |  |                         |                                                                   |                                                                   |  |               |            |            |  |                    |        |        |  |                   |             |             |  |                 |     |     |  |                |           |           |  |  |  |  |  |  |  |  |  |
| Housing material                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Brass + Nickel plated                                             | Brass + Nickel plated                                                                                                                                                                     |  |  |                     |                                     |                                     |  |                      |                 |                 |  |                   |                       |                       |  |                   |                        |                        |  |                   |                  |                  |  |                           |                       |                       |  |                         |                                                                   |                                                                   |  |               |            |            |  |                    |        |        |  |                   |             |             |  |                 |     |     |  |                |           |           |  |  |  |  |  |  |  |  |  |
| Contacts material                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Brass + Gold flash                                                | Brass + Gold flash                                                                                                                                                                        |  |  |                     |                                     |                                     |  |                      |                 |                 |  |                   |                       |                       |  |                   |                        |                        |  |                   |                  |                  |  |                           |                       |                       |  |                         |                                                                   |                                                                   |  |               |            |            |  |                    |        |        |  |                   |             |             |  |                 |     |     |  |                |           |           |  |  |  |  |  |  |  |  |  |
| Coupling nut type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Hexagonal (SW17)                                                  | Hexagonal (SW17)                                                                                                                                                                          |  |  |                     |                                     |                                     |  |                      |                 |                 |  |                   |                       |                       |  |                   |                        |                        |  |                   |                  |                  |  |                           |                       |                       |  |                         |                                                                   |                                                                   |  |               |            |            |  |                    |        |        |  |                   |             |             |  |                 |     |     |  |                |           |           |  |  |  |  |  |  |  |  |  |
| M12 coupling nut material                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Brass + Nickel plated                                             | Brass + Nickel plated                                                                                                                                                                     |  |  |                     |                                     |                                     |  |                      |                 |                 |  |                   |                       |                       |  |                   |                        |                        |  |                   |                  |                  |  |                           |                       |                       |  |                         |                                                                   |                                                                   |  |               |            |            |  |                    |        |        |  |                   |             |             |  |                 |     |     |  |                |           |           |  |  |  |  |  |  |  |  |  |
| M12 coupling nut torque                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.6 N*m                                                           | 0.6 N*m                                                                                                                                                                                   |  |  |                     |                                     |                                     |  |                      |                 |                 |  |                   |                       |                       |  |                   |                        |                        |  |                   |                  |                  |  |                           |                       |                       |  |                         |                                                                   |                                                                   |  |               |            |            |  |                    |        |        |  |                   |             |             |  |                 |     |     |  |                |           |           |  |  |  |  |  |  |  |  |  |
| Rated voltage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 125V AC/DC                                                        | 125V AC/DC                                                                                                                                                                                |  |  |                     |                                     |                                     |  |                      |                 |                 |  |                   |                       |                       |  |                   |                        |                        |  |                   |                  |                  |  |                           |                       |                       |  |                         |                                                                   |                                                                   |  |               |            |            |  |                    |        |        |  |                   |             |             |  |                 |     |     |  |                |           |           |  |  |  |  |  |  |  |  |  |
| Rated current                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 4A                                                                | 4A                                                                                                                                                                                        |  |  |                     |                                     |                                     |  |                      |                 |                 |  |                   |                       |                       |  |                   |                        |                        |  |                   |                  |                  |  |                           |                       |                       |  |                         |                                                                   |                                                                   |  |               |            |            |  |                    |        |        |  |                   |             |             |  |                 |     |     |  |                |           |           |  |  |  |  |  |  |  |  |  |
| Temperature range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -20°C +85°C                                                       | -20°C +85°C                                                                                                                                                                               |  |  |                     |                                     |                                     |  |                      |                 |                 |  |                   |                       |                       |  |                   |                        |                        |  |                   |                  |                  |  |                           |                       |                       |  |                         |                                                                   |                                                                   |  |               |            |            |  |                    |        |        |  |                   |             |             |  |                 |     |     |  |                |           |           |  |  |  |  |  |  |  |  |  |
| O-ring material                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | NBR                                                               | NBR                                                                                                                                                                                       |  |  |                     |                                     |                                     |  |                      |                 |                 |  |                   |                       |                       |  |                   |                        |                        |  |                   |                  |                  |  |                           |                       |                       |  |                         |                                                                   |                                                                   |  |               |            |            |  |                    |        |        |  |                   |             |             |  |                 |     |     |  |                |           |           |  |  |  |  |  |  |  |  |  |
| Suitable cable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ø 4 - 8mm                                                         | ø 4 - 8mm                                                                                                                                                                                 |  |  |                     |                                     |                                     |  |                      |                 |                 |  |                   |                       |                       |  |                   |                        |                        |  |                   |                  |                  |  |                           |                       |                       |  |                         |                                                                   |                                                                   |  |               |            |            |  |                    |        |        |  |                   |             |             |  |                 |     |     |  |                |           |           |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                   |                                                                                                                                                                                           |  |  |                     |                                     |                                     |  |                      |                 |                 |  |                   |                       |                       |  |                   |                        |                        |  |                   |                  |                  |  |                           |                       |                       |  |                         |                                                                   |                                                                   |  |               |            |            |  |                    |        |        |  |                   |             |             |  |                 |     |     |  |                |           |           |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                   |                                                                                                                                                                                           |  |  |                     |                                     |                                     |  |                      |                 |                 |  |                   |                       |                       |  |                   |                        |                        |  |                   |                  |                  |  |                           |                       |                       |  |                         |                                                                   |                                                                   |  |               |            |            |  |                    |        |        |  |                   |             |             |  |                 |     |     |  |                |           |           |  |  |  |  |  |  |  |  |  |
| <div>Packaging</div> <table><tr><td>Qty/Bag</td><td>1 pc / bag</td><td>1 pc / bag</td><td></td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                   |                                                                                                                                                                                           |  |  | Qty/Bag             | 1 pc / bag                          | 1 pc / bag                          |  |                      |                 |                 |  |                   |                       |                       |  |                   |                        |                        |  |                   |                  |                  |  |                           |                       |                       |  |                         |                                                                   |                                                                   |  |               |            |            |  |                    |        |        |  |                   |             |             |  |                 |     |     |  |                |           |           |  |  |  |  |  |  |  |  |  |
| Qty/Bag                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1 pc / bag                                                        | 1 pc / bag                                                                                                                                                                                |  |  |                     |                                     |                                     |  |                      |                 |                 |  |                   |                       |                       |  |                   |                        |                        |  |                   |                  |                  |  |                           |                       |                       |  |                         |                                                                   |                                                                   |  |               |            |            |  |                    |        |        |  |                   |             |             |  |                 |     |     |  |                |           |           |  |  |  |  |  |  |  |  |  |
| <div>Other accessories options</div> <div>See accessories section</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                   |                                                                                                                                                                                           |  |  |                     |                                     |                                     |  |                      |                 |                 |  |                   |                       |                       |  |                   |                        |                        |  |                   |                  |                  |  |                           |                       |                       |  |                         |                                                                   |                                                                   |  |               |            |            |  |                    |        |        |  |                   |             |             |  |                 |     |     |  |                |           |           |  |  |  |  |  |  |  |  |  |
| <div>Notes:</div> <div>Connectors available with different features:<br/>See the general features and codification scheme page<br/>See the cables list section</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                   |                                                                                                                                                                                           |  |  |                     |                                     |                                     |  |                      |                 |                 |  |                   |                       |                       |  |                   |                        |                        |  |                   |                  |                  |  |                           |                       |                       |  |                         |                                                                   |                                                                   |  |               |            |            |  |                    |        |        |  |                   |             |             |  |                 |     |     |  |                |           |           |  |  |  |  |  |  |  |  |  |





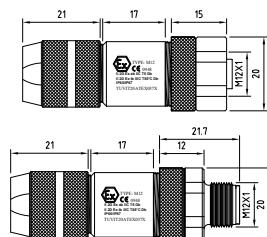


|                                                                                                                                       |                                                           |                   |                                                           |                   |
|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|-------------------|-----------------------------------------------------------|-------------------|
| <b>Technical drawing</b>                                                                                                              |                                                           |                   |                                                           |                   |
| <br>                                                                                                                                  |                                                           |                   |                                                           |                   |
|                                                                                                                                       |                                                           |                   |                                                           |                   |
| <b>Product description</b>                                                                                                            |                                                           |                   |                                                           |                   |
| Connector type                                                                                                                        | Circular connector field attachable                       |                   | Circular connector field attachable                       |                   |
| Conforms to                                                                                                                           | IEC 61076-2-101                                           |                   | IEC 61076-2-101                                           |                   |
| Construction type                                                                                                                     | M12 D-Coded                                               |                   | M12 D-Coded                                               |                   |
| Part number                                                                                                                           | <b>D-12MC4000</b>                                         | <b>D-12MB4000</b> | <b>D-12ML4000</b>                                         | <b>D-12MU4000</b> |
| Housing type                                                                                                                          | Straight 180°                                             | Angled 90°        | Straight 180°                                             | Angled 90°        |
| Cable gland                                                                                                                           | PG7 standard                                              |                   | PG9-11 unified /Double cable exit                         |                   |
| Description                                                                                                                           | Circular connector M12 series<br>D-coded,field attachable |                   | Circular connector M12 series<br>D-coded,field attachable |                   |
| Contacts type                                                                                                                         | Male                                                      |                   | Male                                                      |                   |
| Number of contacts                                                                                                                    | 4poles                                                    |                   | 4poles                                                    |                   |
| Housing colour                                                                                                                        | Black                                                     |                   | Black                                                     |                   |
| <b>Technical data</b>                                                                                                                 |                                                           |                   |                                                           |                   |
| Type of termination                                                                                                                   | Screw contacts                                            |                   | Screw contacts                                            |                   |
| Contact screw torque                                                                                                                  | 0.2 N*m                                                   |                   | 0.2 N*m                                                   |                   |
| Housing material                                                                                                                      | PA66 UL94-V2                                              |                   | PA66 UL94-V2                                              |                   |
| Contacts material                                                                                                                     | Brass + Gold flash                                        |                   | Brass + Gold flash                                        |                   |
| Coupling nut type                                                                                                                     | Knurl round                                               |                   | Knurl round                                               |                   |
| M12 coupling nut material                                                                                                             | Brass + Nickel plated                                     |                   | Brass + Nickel plated                                     |                   |
| M12 coupling nut torque                                                                                                               | 0.4 N*m                                                   |                   | 0.4 N*m                                                   |                   |
| Rated voltage                                                                                                                         | 250V AC/DC                                                |                   | 250V AC/DC                                                |                   |
| Rated current                                                                                                                         | 4A                                                        |                   | 4A                                                        |                   |
| Temperature range                                                                                                                     | -40°C + 90°C                                              |                   | -40°C + 90°C                                              |                   |
| O-ring material                                                                                                                       | NBR                                                       |                   | NBR                                                       |                   |
| Suitable cable                                                                                                                        | ø 4 - 6mm                                                 |                   | ø cable 6-10mm<br>Double exit ø5mm(max.)                  |                   |
| <b>Packaging</b>                                                                                                                      |                                                           |                   |                                                           |                   |
| Qty/Bag                                                                                                                               | 1 pc / bag                                                |                   | 1 pc / bag                                                |                   |
| <b>Other accessories options</b>                                                                                                      |                                                           |                   |                                                           |                   |
| See accessories section                                                                                                               |                                                           |                   |                                                           |                   |
| <b>Notes:</b>                                                                                                                         |                                                           |                   |                                                           |                   |
| Connectors available with different features:<br>See the general features and codification scheme page<br>See the cables list section |                                                           |                   |                                                           |                   |

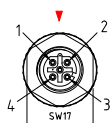




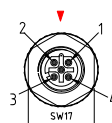
#### Technical drawing



- — C 1
- — C 2
- — C 3
- — C 4



- — ■ 1
- — ■ 2
- — ■ 3
- — ■ 4



#### Product description

|                    |                                                                      |                                                                      |  |
|--------------------|----------------------------------------------------------------------|----------------------------------------------------------------------|--|
| Connector type     | Circular connector field attachable                                  | Circular connector field attachable                                  |  |
| Conforms to        | IEC 61076-2-101                                                      | IEC 61076-2-101                                                      |  |
| Construction type  | M12 D-Coded                                                          | M12 D-Coded                                                          |  |
| Part number        | <b>D-12F14000-ATEX</b>                                               | <b>D-12M14000-ATEX</b>                                               |  |
| Housing type       | Straight 180°                                                        | Straight 180°                                                        |  |
| Cable gland        | PG9 standard                                                         | PG9 standard                                                         |  |
| Description        | Circular connector M12 series<br>D-coded,ATEX conf.,field attachable | Circular connector M12 series<br>D-coded,ATEX conf.,field attachable |  |
| Contacts type      | Female                                                               | Male                                                                 |  |
| Number of contacts | 4poles                                                               | 4poles                                                               |  |
| Housing colour     | Metal                                                                | Metal                                                                |  |

#### Technical data

|                           |                       |                       |  |
|---------------------------|-----------------------|-----------------------|--|
| Type of termination       | Screw contacts        | Screw contacts        |  |
| Contact screw torque      | 0.2 N*m               | 0.2 N*m               |  |
| Housing material          | Brass + Nickel plated | Brass + Nickel plated |  |
| Contacts material         | Brass + Gold flash    | Brass + Gold flash    |  |
| Coupling nut type         | Hexagonal (SW17)      | Hexagonal (SW17)      |  |
| M12 coupling nut material | Brass + Nickel plated | Brass + Nickel plated |  |
| M12 coupling nut torque   | 0.6 N*m               | 0.6 N*m               |  |
| Rated voltage             | 250V AC/DC            | 250V AC/DC            |  |
| Rated current             | 4A                    | 4A                    |  |
| Temperature range         | -20°C +85°C           | -20°C +85°C           |  |
| O-ring material           | NBR                   | NBR                   |  |
| Suitable cable            | ø 4 - 8mm             | ø 4 - 8mm             |  |
|                           |                       |                       |  |
|                           |                       |                       |  |

#### Packaging

|         |            |            |  |
|---------|------------|------------|--|
| Qty/Bag | 1 pc / bag | 1 pc / bag |  |
|---------|------------|------------|--|

#### Other accessories options

See accessories section

#### Notes:

Connectors available with different features:  
See the general features and codification scheme page  
See the cables list section

## • GENERAL FEATURES OF MOULDED CONNECTORS:

**Conductor cross section :**  
0.08(28AWG)...0.75mm<sup>2</sup>(18AWG).

**Contact material and treatment :**  
Brass + Gold flash.

**Protection class :**  
IP67/IP69K.

**Fixing system :**  
M12 coupling nut.

**Housing material :**  
Polyurethane.

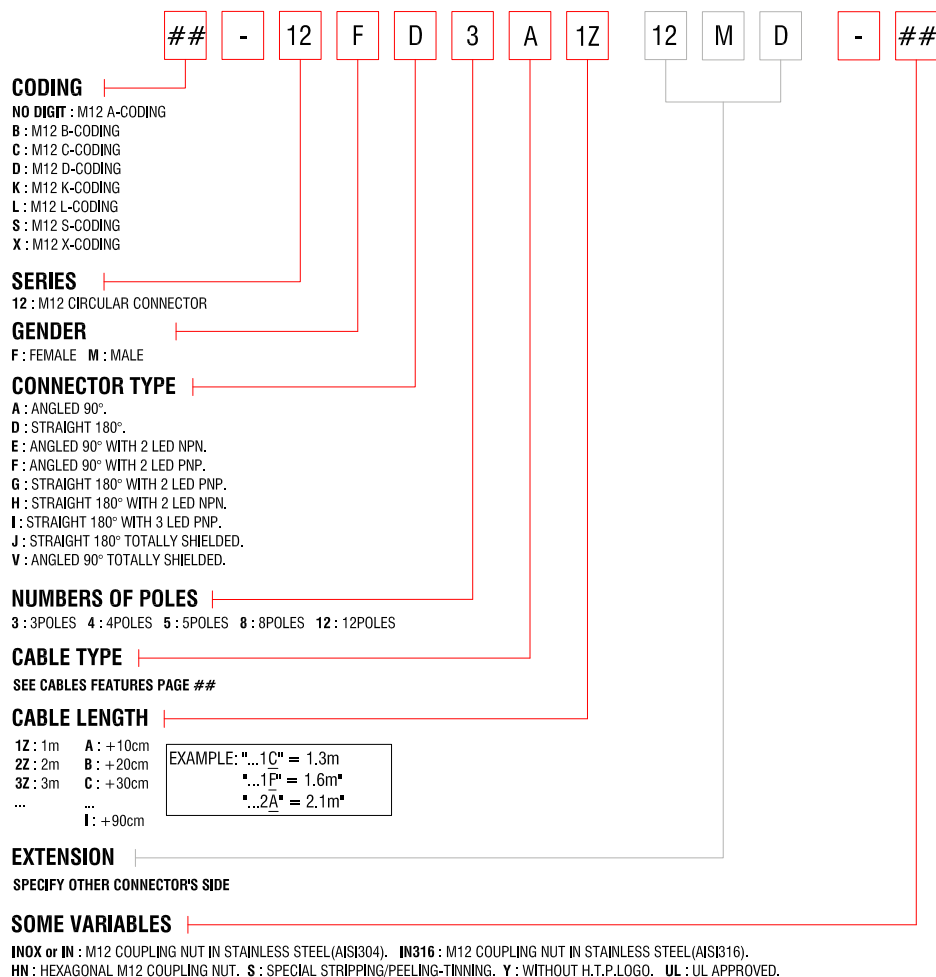
**Operating temperature :**  
-25°C +90°C Standard.  
-25°C +120°C (UL approved connectors).

**Max. screw torque IEC60947-1**  
M12 coupling nut torque 0.4N\*m

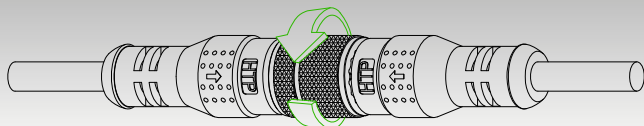
**Internal core material :**  
PA66.

**Type of terminations :**  
Crimped wires.  
Solder wires (8 poles - 12 poles).

**Coupling nut material :**  
Brass + Nickel plated.  
Stainless steel AISI304(upon request).  
Stainless steel AISI316(upon request).

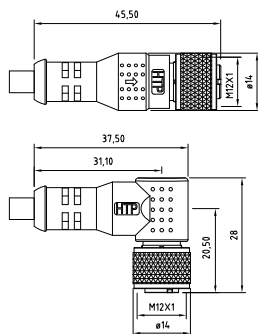


## ANTI-VIBRATION SYSTEM:

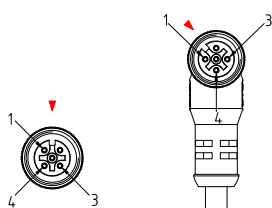




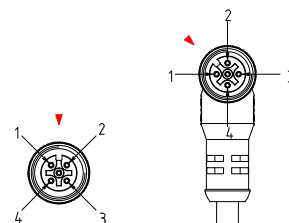
#### Technical drawing



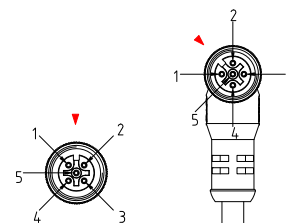
- — C 1
- — C 3
- — C 4



- — C 1
- — C 2
- — C 3
- — C 4



- — C 1
- — C 2
- — C 3
- — C 4
- — C 5



#### Product description

|                    |                                                  |                 |                                                  |                 |                                                  |                 |
|--------------------|--------------------------------------------------|-----------------|--------------------------------------------------|-----------------|--------------------------------------------------|-----------------|
| Connector type     | Circular connector with moulded cable            |                 | Circular connector with moulded cable            |                 | Circular connector with moulded cable            |                 |
| Conforms to        | IEC 61076-2-101                                  |                 | IEC 61076-2-101                                  |                 | IEC 61076-2-101                                  |                 |
| Construction type  | M12 A-Coded                                      |                 | M12 A-Coded                                      |                 | M12 A-Coded                                      |                 |
| Description        | Circular connector M12 series with moulded cable |                 | Circular connector M12 series with moulded cable |                 | Circular connector M12 series with moulded cable |                 |
| Part number        | <b>12FD3B1Z</b>                                  | <b>12FA3B1Z</b> | <b>12FD4B1Z</b>                                  | <b>12FA4B1Z</b> | <b>12FD5B1Z</b>                                  | <b>12FA5B1Z</b> |
| Housing type       | Straight 180°                                    | Angled 90°      | Straight 180°                                    | Angled 90°      | Straight 180°                                    | Angled 90°      |
| Cable gland        | Moulded cable                                    |                 | Moulded cable                                    |                 | Moulded cable                                    |                 |
| Contacts type      | Female                                           |                 | Female                                           |                 | Female                                           |                 |
| Number of contacts | 3poles                                           |                 | 4poles                                           |                 | 5poles                                           |                 |
| Housing colour     | Black                                            |                 | Black                                            |                 | Black                                            |                 |

#### Technical data

|                           |                         |  |                           |  |                                 |  |
|---------------------------|-------------------------|--|---------------------------|--|---------------------------------|--|
| Type of termination       | Contacts to crimp wires |  | Contacts to crimp wires   |  | Contacts to crimp wires         |  |
| Contacts material         | Brass + Gold flash      |  | Brass + Gold flash        |  | Brass + Gold flash              |  |
| Coupling nut type         | Knurl round             |  | Knurl round               |  | Knurl round                     |  |
| M12 coupling nut material | Brass + Nickel plated   |  | Brass + Nickel plated     |  | Brass + Nickel plated           |  |
| M12 coupling nut torque   | 0.4 N*m                 |  | 0.4 N*m                   |  | 0.4 N*m                         |  |
| Rated voltage             | 250V AC/DC              |  | 250V AC/DC                |  | 60V AC/DC                       |  |
| Rated current             | 4A                      |  | 4A                        |  | 4A                              |  |
| O-ring material           | NBR                     |  | NBR                       |  | NBR                             |  |
| Cable type                | PVC/PVC CEI2022         |  | PVC/PVC CEI2022           |  | PVC/PVC CEI2022                 |  |
| Cable jacket colour       | Black                   |  | Black                     |  | Black                           |  |
| No. Conductors / Section  | 3x0.34mm <sup>2</sup>   |  | 4x0.34mm <sup>2</sup>     |  | 5x0.34mm <sup>2</sup>           |  |
| Conductor colours         | Brown; Blue; Black      |  | Brown; White; Blue; Black |  | Brown; White; Blue; Black; Grey |  |
| Cable diameter            | Ø4.8mm (±0.3)           |  | Ø5.2mm (±0.3)             |  | Ø5.5mm (±0.3)                   |  |
| Cable length              | 1m                      |  | 1m                        |  | 1m                              |  |

#### Packaging

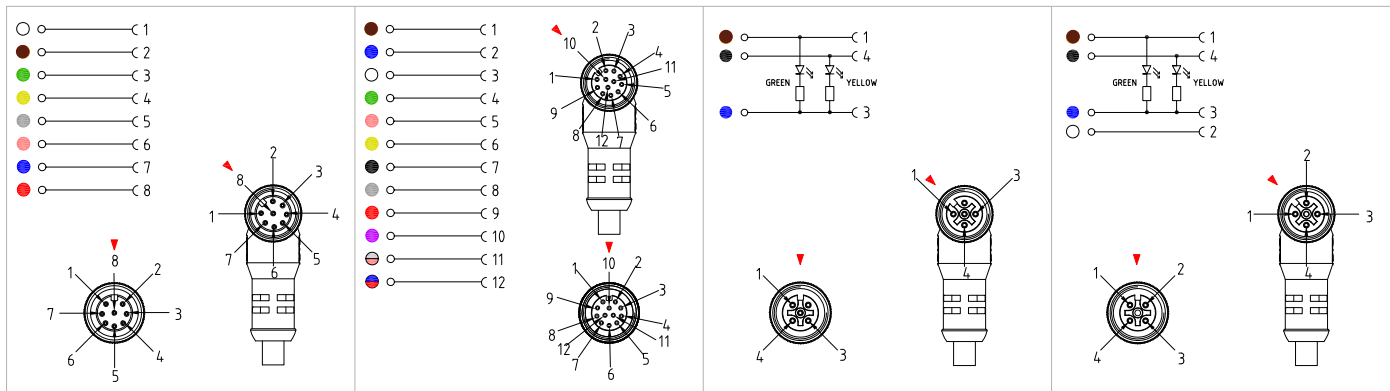
|         |            |            |            |
|---------|------------|------------|------------|
| Qty/Bag | 1 pc / bag | 1 pc / bag | 1 pc / bag |
|---------|------------|------------|------------|

#### Other accessories options

See accessories section

#### Notes:

Connectors available with different features:  
See the general features and codification scheme page  
See the cables list section



#### Product description

|                                                  |                 |                                                  |                  |                                                                                               |                 |                                                                                               |                 |
|--------------------------------------------------|-----------------|--------------------------------------------------|------------------|-----------------------------------------------------------------------------------------------|-----------------|-----------------------------------------------------------------------------------------------|-----------------|
| Circular connector with moulded cable            |                 | Circular connector with moulded cable            |                  | Circular connector with moulded cable                                                         |                 | Circular connector with moulded cable                                                         |                 |
| IEC 61076-2-101                                  |                 | IEC 61076-2-101                                  |                  | IEC 61076-2-101                                                                               |                 | IEC 61076-2-101                                                                               |                 |
| M12 A-Coded                                      |                 | M12 A-Coded                                      |                  | M12 A-Coded                                                                                   |                 | M12 A-Coded                                                                                   |                 |
| Circular connector M12 series with moulded cable |                 | Circular connector M12 series with moulded cable |                  | Circular connector M12 series n.2 Led <b>PNP</b> circuit (PIN1: GN;PIN4:YE)with moulded cable |                 | Circular connector M12 series n.2 Led <b>PNP</b> circuit (PIN1: GN;PIN4:YE)with moulded cable |                 |
| <b>12FD8A1Z</b>                                  | <b>12FA8A1Z</b> | <b>12FD12K1Z</b>                                 | <b>12FA12K1Z</b> | <b>12FG3B1Z</b>                                                                               | <b>12FF3B1Z</b> | <b>12FG4B1Z</b>                                                                               | <b>12FF4B1Z</b> |
| Straight 180°                                    | Angled 90°      | Straight 180°                                    | Angled 90°       | Straight 180°                                                                                 | Angled 90°      | Straight 180°                                                                                 | Angled 90°      |
| Moulded cable                                    |                 | Moulded cable                                    |                  | Moulded cable                                                                                 |                 | Moulded cable                                                                                 |                 |
| Female                                           |                 | Female                                           |                  | Female                                                                                        |                 | Female                                                                                        |                 |
| 8poles                                           |                 | 12poles                                          |                  | 3poles                                                                                        |                 | 4poles                                                                                        |                 |
| Black                                            |                 | Black                                            |                  | Transparent                                                                                   |                 | Transparent                                                                                   |                 |

#### Technical data

|                                             |  |                                           |  |                        |  |                            |  |
|---------------------------------------------|--|-------------------------------------------|--|------------------------|--|----------------------------|--|
| Contacts to solder wires                    |  | Contacts to solder wires                  |  | Contacts to solder PCB |  | Contacts to solder PCB     |  |
| Brass + Gold flash                          |  | Brass + Gold flash                        |  | Brass + Gold flash     |  | Brass + Gold flash         |  |
| Knurl round                                 |  | Knurl round                               |  | Knurl round            |  | Knurl round                |  |
| Brass + Nickel plated                       |  | Brass + Nickel plated                     |  | Brass + Nickel plated  |  | Brass + Nickel plated      |  |
| 0.4 N*m                                     |  | 0.4 N*m                                   |  | 0.4 N*m                |  | <b>0.4 N*m</b>             |  |
| 30V AC/DC                                   |  | 30V AC/DC                                 |  | 10-30V DC              |  | 10-30V DC                  |  |
| 2A                                          |  | 1.5A                                      |  | 3A                     |  | 3A                         |  |
| NBR                                         |  | NBR                                       |  | NBR                    |  | NBR                        |  |
| PVC/PVC CEI2022                             |  | PVC/PVC CEI2022                           |  | PVC/PVC CEI2022        |  | PVC/PVC CEI2022            |  |
| Black                                       |  | Black                                     |  | Black                  |  | Black                      |  |
| 8x0.25mm <sup>2</sup>                       |  | 12x0.14mm <sup>2</sup>                    |  | 3x0.34mm <sup>2</sup>  |  | 4x0.34mm <sup>2</sup>      |  |
| White;Brown;Green;Yellow;Grey;Pink;Blue;Red |  | Bn;Bu;Wh;Gn;Pk;Ye;Bk;Gy;Rd;Vt;Pk;Gy;Rd;Bu |  | Brown; Blue; Black     |  | Brown; White; Blue; Black; |  |
| ø6mm (±0.3)                                 |  | ø6.5mm (±0.3)                             |  | ø4.8mm (±0.3)          |  | ø5.2mm (±0.3)              |  |
| 1m                                          |  | 1m                                        |  | 1m                     |  | 1m                         |  |

#### Packaging

|            |            |            |            |
|------------|------------|------------|------------|
| 1 pc / bag | 1 pc / bag | 1 pc / bag | 1 pc / bag |
|------------|------------|------------|------------|

#### Other accessories options

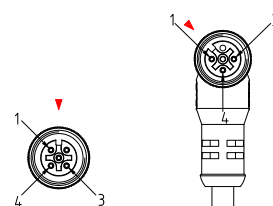
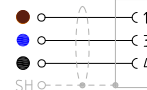
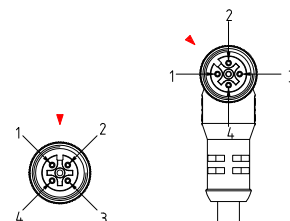
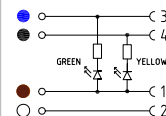
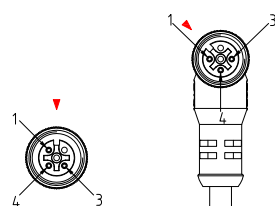
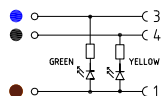
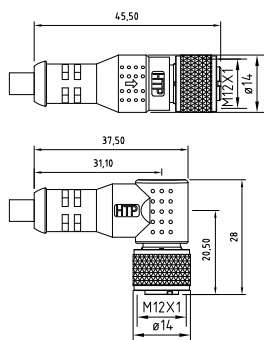
See accessories section

#### Notes:

Connectors available with different features:  
See the general features and codification scheme page  
See the cables list section



#### Technical drawing



#### Product description

|                    |                                                                                               |                 |                                                                                               |                 |                                                                          |                 |
|--------------------|-----------------------------------------------------------------------------------------------|-----------------|-----------------------------------------------------------------------------------------------|-----------------|--------------------------------------------------------------------------|-----------------|
| Connector type     | Circular connector with moulded cable                                                         |                 | Circular connector with moulded cable                                                         |                 | Circular connector with moulded cable                                    |                 |
| Conforms to        | IEC 61076-2-101                                                                               |                 | IEC 61076-2-101                                                                               |                 | IEC 61076-2-101                                                          |                 |
| Construction type  | M12 A-Coded                                                                                   |                 | M12 A-Coded                                                                                   |                 | M12 A-Coded                                                              |                 |
| Description        | Circular connector M12 series n.2 Led <b>NPN</b> circuit (PIN3: GN;PIN4:YE)with moulded cable |                 | Circular connector M12 series n.2 Led <b>NPN</b> circuit (PIN3: GN;PIN4:YE)with moulded cable |                 | Circular connector M12 series <b>TOTALLY SHIELDED</b> with moulded cable |                 |
| Part number        | <b>12FH3B1Z</b>                                                                               | <b>12FE3B1Z</b> | <b>12FH4B1Z</b>                                                                               | <b>12FE4B1Z</b> | <b>12FJ3F1Z</b>                                                          | <b>12FV3F1Z</b> |
| Housing type       | Straight 180°                                                                                 | Angled 90°      | Straight 180°                                                                                 | Angled 90°      | Straight 180°                                                            | Angled 90°      |
| Cable gland        | Moulded cable                                                                                 |                 | Moulded cable                                                                                 |                 | Moulded cable                                                            |                 |
| Contacts type      | Female                                                                                        |                 | Female                                                                                        |                 | Female                                                                   |                 |
| Number of contacts | 3poles                                                                                        |                 | 4poles                                                                                        |                 | 3poles                                                                   |                 |
| Housing colour     | Transparent                                                                                   |                 | Transparent                                                                                   |                 | Black                                                                    |                 |

#### Technical data

|                           |                        |  |                           |  |                          |  |
|---------------------------|------------------------|--|---------------------------|--|--------------------------|--|
| Type of termination       | Contacts to solder PCB |  | Contacts to solder PCB    |  | Contacts to crimp wires  |  |
| Contacts material         | Brass + Gold flash     |  | Brass + Gold flash        |  | Brass + Gold flash       |  |
| Coupling nut type         | Knurl round            |  | Knurl round               |  | Knurl round              |  |
| M12 coupling nut material | Brass + Nickel plated  |  | Brass + Nickel plated     |  | Brass + Nickel plated    |  |
| M12 coupling nut torque   | 0.4 N*m                |  | 0.4 N*m                   |  | 0.4 N*m                  |  |
| Rated voltage             | 10-30V DC              |  | 10-30V DC                 |  | 250V AC/DC               |  |
| Rated current             | 3A                     |  | 3A                        |  | 4A                       |  |
| O-ring material           | NBR                    |  | NBR                       |  | NBR                      |  |
| Cable type                | PVC/PVC CEI2022        |  | PVC/PVC CEI2022           |  | PVC/PVC CEI2022 SHIELDED |  |
| Cable jacket colour       | Black                  |  | Black                     |  | Black                    |  |
| No. Conductors / Section  | 3x0.34mm <sup>2</sup>  |  | 4x0.34mm <sup>2</sup>     |  | 3x0.34mm <sup>2</sup>    |  |
| Conductor colours         | Brown; Blue; Black     |  | Brown; White; Blue; Black |  | Brown; Blue; Black       |  |
| Cable diameter            | ø4.8mm (±0.3)          |  | ø5.2mm (±0.3)             |  | ø5.2mm (±0.3)            |  |
| Cable length              | 1m                     |  | 1m                        |  | 1m                       |  |

#### Packaging

|         |            |            |            |
|---------|------------|------------|------------|
| Qty/Bag | 1 pc / bag | 1 pc / bag | 1 pc / bag |
|---------|------------|------------|------------|

#### Other accessories options

See accessories section

#### Notes:

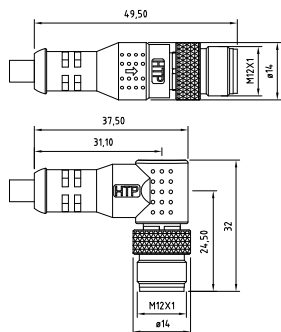
Connectors available with different features:  
See the general features and codification scheme page  
See the cables list section



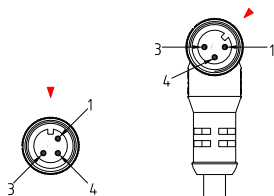
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|-------------------------------------------------------------------|-----------------|-------------------------------------------------------------------|-----------------|--------------------------------------------------|-----------------|
|                                                                   |                 |                                                                   |                 |                                                  |                 |
|                                                                   |                 |                                                                   |                 |                                                  |                 |
| <b>Product description</b>                                        |                 |                                                                   |                 |                                                  |                 |
| Circular connector with moulded cable                             |                 | Circular connector with moulded cable                             |                 | Circular connector with moulded cable            |                 |
| IEC 61076-2-101                                                   |                 | IEC 61076-2-101                                                   |                 | IEC 61076-2-101                                  |                 |
| M12 A-Coded                                                       |                 | M12 A-Coded                                                       |                 | M12 A-Coded                                      |                 |
| Circular connector M12 series TOTALLY SHIELDED with moulded cable |                 | Circular connector M12 series TOTALLY SHIELDED with moulded cable |                 | Circular connector M12 series with moulded cable |                 |
| <b>12FJ4F1Z</b>                                                   | <b>12FV4F1Z</b> | <b>12FJ5F1Z</b>                                                   | <b>12FV5F1Z</b> | <b>12FJ8J1Z</b>                                  | <b>12FV8J1Z</b> |
| Straight 180°                                                     |                 | Straight 180°                                                     |                 | Straight 180°                                    |                 |
| Angled 90°                                                        |                 | Angled 90°                                                        |                 | Angled 90°                                       |                 |
| Moulded cable                                                     |                 | Moulded cable                                                     |                 | Moulded cable                                    |                 |
| Female                                                            |                 | Female                                                            |                 | Female                                           |                 |
| 4poles                                                            |                 | 5poles                                                            |                 | 8poles                                           |                 |
| Black                                                             |                 | Black                                                             |                 | Black                                            |                 |
| <b>Technical data</b>                                             |                 |                                                                   |                 |                                                  |                 |
| Contacts to crimp wires                                           |                 | Contacts to crimp wires                                           |                 | Contacts to solder wires                         |                 |
| Brass+Gold flash                                                  |                 | Brass+Gold flash                                                  |                 | Brass+Gold flash                                 |                 |
| Knurl round                                                       |                 | Knurl round                                                       |                 | Knurl round                                      |                 |
| Brass+Nickel plated                                               |                 | Brass+Nickel plated                                               |                 | Brass+Nickel plated                              |                 |
| 0.4 N*m                                                           |                 | 0.4 N*m                                                           |                 | 0.4 N*m                                          |                 |
| 250V AC/DC                                                        |                 | 60V AC/DC                                                         |                 | 30V AC/DC                                        |                 |
| 4A                                                                |                 | 4A                                                                |                 | 2A                                               |                 |
| NBR                                                               |                 | NBR                                                               |                 | NBR                                              |                 |
| PVC/PVC CEI2022 SHIELDED                                          |                 | PVC/PVC CEI2022 SHIELDED                                          |                 | PVC/PVC CEI2022 SHIELED                          |                 |
| Black                                                             |                 | Black                                                             |                 | Black                                            |                 |
| 4x0.34mm²                                                         |                 | 5x0.34mm²                                                         |                 | 8x0.25mm²                                        |                 |
| Brown; White; Blue; Black                                         |                 | Brown; White; Blue; Black; Grey                                   |                 | White;Brown;Green;Yellow;Grey;Pink;Blue;Red      |                 |
| ø5.5mm (±0.3)                                                     |                 | ø6mm (±0.3)                                                       |                 | ø6.5mm (±0.3)                                    |                 |
| 1m                                                                |                 | 1m                                                                |                 | 1m                                               |                 |
| <b>Packaging</b>                                                  |                 |                                                                   |                 |                                                  |                 |
| 1 pc / bag                                                        |                 | 1 pc / bag                                                        |                 | 1 pc / bag                                       |                 |
| <b>Other accessories options</b>                                  |                 |                                                                   |                 |                                                  |                 |
| See accessories section                                           |                 |                                                                   |                 |                                                  |                 |
| <b>Notes:</b>                                                     |                 |                                                                   |                 |                                                  |                 |
| Connectors available with different features:                     |                 |                                                                   |                 |                                                  |                 |
| See the general features and codification scheme page             |                 |                                                                   |                 |                                                  |                 |
| See the cables list section                                       |                 |                                                                   |                 |                                                  |                 |



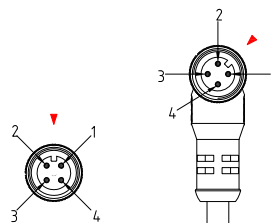
#### Technical drawing



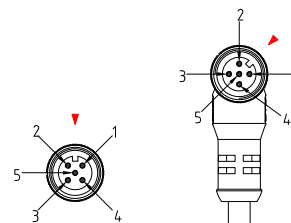
- — 1
- — 3
- — 4



- — 1
- — 2
- — 3
- — 4



- — 1
- — 2
- — 3
- — 4
- — 5



#### Product description

|                    |                                                  |                 |                                                  |                 |                                                  |                 |
|--------------------|--------------------------------------------------|-----------------|--------------------------------------------------|-----------------|--------------------------------------------------|-----------------|
| Connector type     | Circular connector with moulded cable            |                 | Circular connector with moulded cable            |                 | Circular connector with moulded cable            |                 |
| Conforms to        | IEC 61076-2-101                                  |                 | IEC 61076-2-101                                  |                 | IEC 61076-2-101                                  |                 |
| Construction type  | M12 A-Coded                                      |                 | M12 A-Coded                                      |                 | M12 A-Coded                                      |                 |
| Description        | Circular connector M12 series with moulded cable |                 | Circular connector M12 series with moulded cable |                 | Circular connector M12 series with moulded cable |                 |
| Part number        | <b>12MD3B1Z</b>                                  | <b>12MA3B1Z</b> | <b>12MD4B1Z</b>                                  | <b>12MA4B1Z</b> | <b>12MD5B1Z</b>                                  | <b>12MA5B1Z</b> |
| Housing type       | Straight 180°                                    | Angled 90°      | Straight 180°                                    | Angled 90°      | Straight 180°                                    | Angled 90°      |
| Cable gland        | Moulded cable                                    |                 | Moulded cable                                    |                 | Moulded cable                                    |                 |
| Contacts type      | Male                                             |                 | Male                                             |                 | Male                                             |                 |
| Number of contacts | 3poles                                           |                 | 4poles                                           |                 | 5poles                                           |                 |
| Housing colour     | Black                                            |                 | Black                                            |                 | Black                                            |                 |

#### Technical data

|                           |                         |  |                           |  |                                 |  |
|---------------------------|-------------------------|--|---------------------------|--|---------------------------------|--|
| Type of termination       | Contacts to crimp wires |  | Contacts to crimp wires   |  | Contacts to crimp wires         |  |
| Contacts material         | Brass + Gold flash      |  | Brass + Gold flash        |  | Brass + Gold flash              |  |
| Coupling nut type         | Knurl round             |  | Knurl round               |  | Knurl round                     |  |
| M12 coupling nut material | Brass + Nickel plated   |  | Brass + Nickel plated     |  | Brass + Nickel plated           |  |
| M12 coupling nut torque   | 0.4 N*m                 |  | 0.4 N*m                   |  | 0.4 N*m                         |  |
| Rated voltage             | 250V AC/DC              |  | 250V AC/DC                |  | 60V AC/DC                       |  |
| Rated current             | 4A                      |  | 4A                        |  | 4A                              |  |
| O-ring material           | -                       |  | -                         |  | -                               |  |
| Cable type                | PVC/PVC CEI2022         |  | PVC/PVC CEI2022           |  | PVC/PVC CEI2022                 |  |
| Cable jacket colour       | Black                   |  | Black                     |  | Black                           |  |
| No. Conductors / Section  | 3x0.34mm <sup>2</sup>   |  | 4x0.34mm <sup>2</sup>     |  | 5x0.34mm <sup>2</sup>           |  |
| Conductor colours         | Brown; Blue; Black      |  | Brown; White; Blue; Black |  | Brown; White; Blue; Black; Grey |  |
| Cable diameter            | ø4.8mm (±0.3)           |  | ø5.2mm (±0.3)             |  | ø5.5mm (±0.3)                   |  |
| Cable length              | 1m                      |  | 1m                        |  | 1m                              |  |

#### Packaging

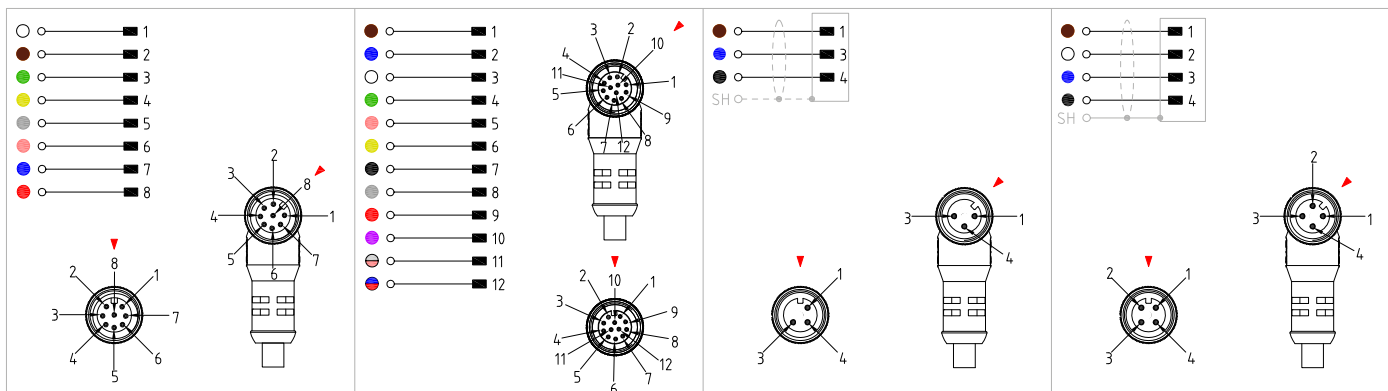
|         |            |            |            |
|---------|------------|------------|------------|
| Qty/Bag | 1 pc / bag | 1 pc / bag | 1 pc / bag |
|---------|------------|------------|------------|

#### Other accessories options

See accessories section

#### Notes:

Connectors available with different features:  
See the general features and codification scheme page  
See the cables list section

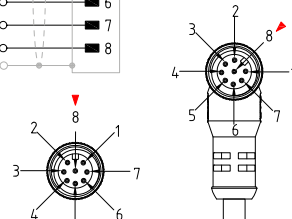
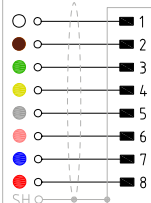
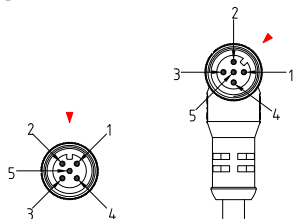
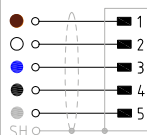
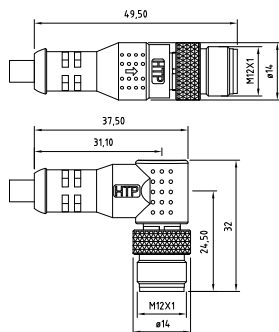


| Product description                                   |            |                                                                   |            |
|-------------------------------------------------------|------------|-------------------------------------------------------------------|------------|
| Circular connector with moulded cable                 |            | Circular connector with moulded cable                             |            |
| IEC 61076-2-101                                       |            | IEC 61076-2-101                                                   |            |
| M12 A-Coded                                           |            | M12 A-Coded                                                       |            |
| Circular connector M12 series with moulded cable      |            | Circular connector M12 series TOTALLY SHIELDED with moulded cable |            |
| 12MD8A1Z                                              | 12MA8A1Z   | 12MD12K1Z                                                         | 12MA12K1Z  |
| Straight 180°                                         | Angled 90° | Straight 180°                                                     | Angled 90° |
| Moulded cable                                         |            | Moulded cable                                                     |            |
| Male                                                  |            | Male                                                              |            |
| 8poles                                                |            | 3poles                                                            |            |
| Black                                                 |            | Black                                                             |            |
| Technical data                                        |            |                                                                   |            |
| Contacts to solder wires                              |            | Contacts to solder wires                                          |            |
| Brass + Gold flash                                    |            | Brass + Gold flash                                                |            |
| Knurl round                                           |            | Knurl round                                                       |            |
| Brass + Nickel plated                                 |            | Brass + Nickel plated                                             |            |
| 0.4 N*m                                               |            | 0.4 N*m                                                           |            |
| 30V AC/DC                                             |            | 250V AC/DC                                                        |            |
| 2A                                                    |            | 4A                                                                |            |
| -                                                     |            | -                                                                 |            |
| PVC/PVC CEI2022                                       |            | PVC/PVC CEI2022 SHIELDED                                          |            |
| Black                                                 |            | Black                                                             |            |
| 8x0.25mm²                                             |            | 3x0.34mm²                                                         |            |
| White; Brown; Green; Yellow; Grey; Pink; Blue; Red    |            | Brown; Blue; Black                                                |            |
| ø6mm (±0.3)                                           |            | ø5.2mm (±0.3)                                                     |            |
| 1m                                                    |            | 1m                                                                |            |
| Packaging                                             |            |                                                                   |            |
| 1 pc / bag                                            |            | 1 pc / bag                                                        |            |
| Other accessories options                             |            |                                                                   |            |
| See accessories section                               |            |                                                                   |            |
| Notes:                                                |            |                                                                   |            |
| Connectors available with different features:         |            |                                                                   |            |
| See the general features and codification scheme page |            |                                                                   |            |
| See the cables list section                           |            |                                                                   |            |





#### Technical drawing



#### Product description

|                    |                                                                   |                 |                                                                   |                 |
|--------------------|-------------------------------------------------------------------|-----------------|-------------------------------------------------------------------|-----------------|
| Connector type     | Circular connector with moulded cable                             |                 | Circular connector with moulded cable                             |                 |
| Conforms to        | IEC 61076-2-101                                                   |                 | IEC 61076-2-101                                                   |                 |
| Construction type  | M12 A-Coded                                                       |                 | M12 A-Coded                                                       |                 |
| Description        | Circular connector M12 series TOTALLY SHIELDED with moulded cable |                 | Circular connector M12 series TOTALLY SHIELDED with moulded cable |                 |
| Part number        | <b>12MJ5F1Z</b>                                                   | <b>12MV5F1Z</b> | <b>12MJ8J1Z</b>                                                   | <b>12MV8J1Z</b> |
| Housing type       | Straight 180°                                                     | Angled 90°      | Straight 180°                                                     | Angled 90°      |
| Cable gland        | Moulded cable                                                     |                 | Moulded cable                                                     |                 |
| Contacts type      | Male                                                              |                 | Male                                                              |                 |
| Number of contacts | 5poles                                                            |                 | 8poles                                                            |                 |
| Housing colour     | Black                                                             |                 | Black                                                             |                 |

#### Technical data

|                           |                                 |  |                                                    |  |
|---------------------------|---------------------------------|--|----------------------------------------------------|--|
| Type of termination       | Contacts to crimp wires         |  | Contacts to solder wires                           |  |
| Contacts material         | Brass + Gold flash              |  | Brass + Gold flash                                 |  |
| Coupling nut type         | Knurl round                     |  | Knurl round                                        |  |
| M12 coupling nut material | Brass + Nickel plated           |  | Brass + Nickel plated                              |  |
| M12 coupling nut torque   | 0.4 N*m                         |  | 0.4 N*m                                            |  |
| Rated voltage             | 60V AC/DC                       |  | 30V AC/DC                                          |  |
| Rated current             | 4A                              |  | 2A                                                 |  |
| O-ring material           | -                               |  | -                                                  |  |
| Cable type                | PVC/PVC CEI2022 SHIELDED        |  | PVC/PVC CEI2022 SHIELDED                           |  |
| Cable jacket colour       | Black                           |  | Black                                              |  |
| No. Conductors / Section  | 5x0.34mm²                       |  | 8x0.25mm²                                          |  |
| Conductor colours         | Brown; White; Blue; Black; Grey |  | White; Brown; Green; Yellow; Grey; Pink; Blue; Red |  |
| Cable diameter            | ø6mm (±0.3)                     |  | ø6.5mm (±0.3)                                      |  |
| Cable length              | 1m                              |  | 1m                                                 |  |

#### Packaging

|         |            |            |
|---------|------------|------------|
| Qty/Bag | 1 pc / bag | 1 pc / bag |
|---------|------------|------------|

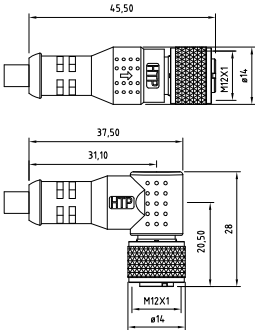
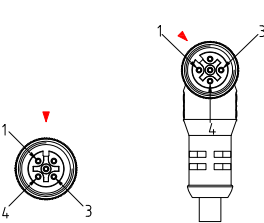
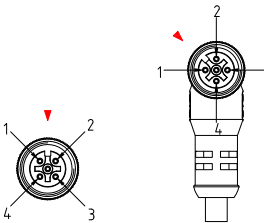
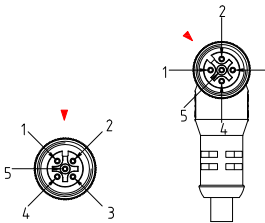
#### Other accessories options

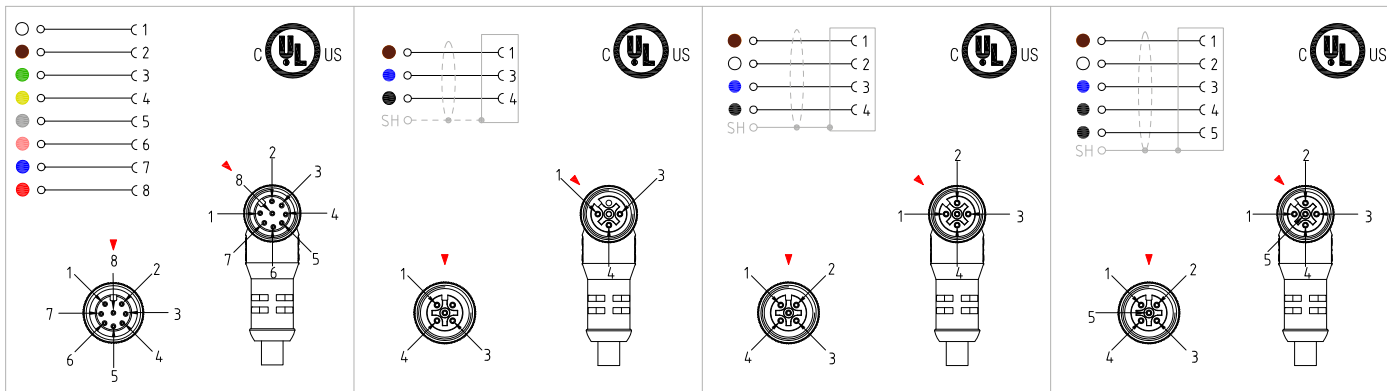
See accessories section

#### Notes:

Connectors available with different features:  
See the general features and codification scheme page  
See the cables list section

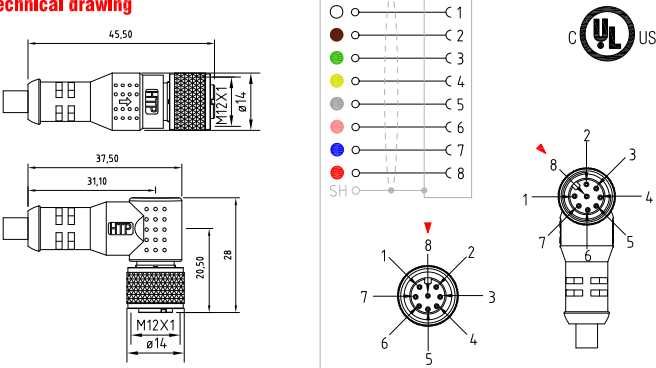


|                                                                                                                                                        |  |                                                                                   |  |                                                                                     |  |                                                                                     |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------|--|
| <b>Technical drawing</b>                                                                                                                               |  |  |  |  |  |  |  |
|                                                                       |  |  |  |   |  |  |  |
| <b>Product description</b>                                                                                                                             |  |                                                                                   |  |                                                                                     |  |                                                                                     |  |
| Connector type                                                                                                                                         |  | Circular connector with moulded cable                                             |  | Circular connector with moulded cable                                               |  | Circular connector with moulded cable                                               |  |
| Conforms to                                                                                                                                            |  | IEC 61076-2-101 / UL approved                                                     |  | IEC 61076-2-101 / UL approved                                                       |  | IEC 61076-2-101 / UL approved                                                       |  |
| Construction type                                                                                                                                      |  | M12 A-Coded                                                                       |  | M12 A-Coded                                                                         |  | M12 A-Coded                                                                         |  |
| Description                                                                                                                                            |  | Circular connector M12 series,ULapproved, with moulded cable                      |  | Circular connector M12 series,ULapproved, with moulded cable                        |  | Circular connector M12 series,ULapproved, with moulded cable                        |  |
| Part number                                                                                                                                            |  | <b>12FD311Z-UL</b> <b>12FA311Z-UL</b>                                             |  | <b>12FD411Z-UL</b> <b>12FA411Z-UL</b>                                               |  | <b>12FD511Z-UL</b> <b>12FA511Z-UL</b>                                               |  |
| Housing type                                                                                                                                           |  | Straight 180°      Angled 90°                                                     |  | Straight 180°      Angled 90°                                                       |  | Straight 180°      Angled 90°                                                       |  |
| Cable gland                                                                                                                                            |  | Moulded cable                                                                     |  | Moulded cable                                                                       |  | Moulded cable                                                                       |  |
| Contacts type                                                                                                                                          |  | Female                                                                            |  | Female                                                                              |  | Female                                                                              |  |
| Number of contacts                                                                                                                                     |  | 3poles                                                                            |  | 4poles                                                                              |  | 5poles                                                                              |  |
| Housing colour                                                                                                                                         |  | Black                                                                             |  | Black                                                                               |  | Black                                                                               |  |
| <b>Technical data</b>                                                                                                                                  |  |                                                                                   |  |                                                                                     |  |                                                                                     |  |
| Type of termination                                                                                                                                    |  | Contacts to crimp wires                                                           |  | Contacts to crimp wires                                                             |  | Contacts to crimp wires                                                             |  |
| Contacts material                                                                                                                                      |  | Brass + Gold flash                                                                |  | Brass + Gold flash                                                                  |  | Brass + Gold flash                                                                  |  |
| Coupling nut type                                                                                                                                      |  | Knurl round                                                                       |  | Knurl round                                                                         |  | Knurl round                                                                         |  |
| M12 coupling nut material                                                                                                                              |  | Brass + Nickel plated                                                             |  | Brass + Nickel plated                                                               |  | Brass + Nickel plated                                                               |  |
| M12 coupling nut torque                                                                                                                                |  | 0.4 N*m                                                                           |  | 0.4 N*m                                                                             |  | 0.4 N*m                                                                             |  |
| Rated voltage                                                                                                                                          |  | 250V AC/DC                                                                        |  | 250V AC/DC                                                                          |  | 60V AC/DC                                                                           |  |
| Rated current                                                                                                                                          |  | 4A                                                                                |  | 4A                                                                                  |  | 4A                                                                                  |  |
| O-ring material                                                                                                                                        |  | NBR                                                                               |  | NBR                                                                                 |  | NBR                                                                                 |  |
| Cable type                                                                                                                                             |  | PVC/PVC ULstyle 21179                                                             |  | PVC/PVC ULstyle 21179                                                               |  | PVC/PVC ULstyle 21179                                                               |  |
| Cable jacket colour                                                                                                                                    |  | Black                                                                             |  | Black                                                                               |  | Black                                                                               |  |
| No. Conductors / Section                                                                                                                               |  | 3xAWG22 (0.34mm²)                                                                 |  | 4xAWG22 (0.34mm²)                                                                   |  | 5xAWG22 (0.34mm²)                                                                   |  |
| Conductor colours                                                                                                                                      |  | Brown; Blue; Black                                                                |  | Brown; White; Blue; Black                                                           |  | Brown; White; Blue; Black; Grey                                                     |  |
| Cable diameter                                                                                                                                         |  | ø4.8mm (±0.3)                                                                     |  | ø5.2mm (±0.3)                                                                       |  | ø5.8mm (±0.3)                                                                       |  |
| Cable lenght                                                                                                                                           |  | 1m                                                                                |  | 1m                                                                                  |  | 1m                                                                                  |  |
| <b>Packaging</b>                                                                                                                                       |  |                                                                                   |  |                                                                                     |  |                                                                                     |  |
| Qty/Bag                                                                                                                                                |  | 1 pc / bag                                                                        |  | 1 pc / bag                                                                          |  | 1 pc / bag                                                                          |  |
| <b>Other accessories options</b>                                                                                                                       |  |                                                                                   |  |                                                                                     |  |                                                                                     |  |
| See accessories section                                                                                                                                |  |                                                                                   |  |                                                                                     |  |                                                                                     |  |
| <b>Notes:</b><br>Connectors available with different feautres:<br>See the general features and codification scheme page<br>See the cables list section |  |                                                                                   |  |                                                                                     |  |                                                                                     |  |



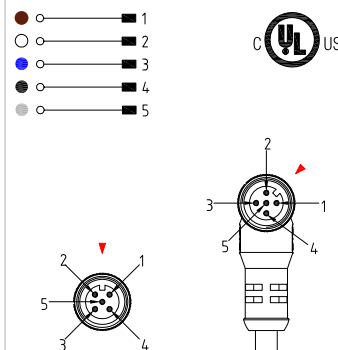
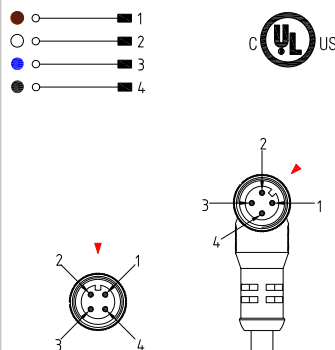
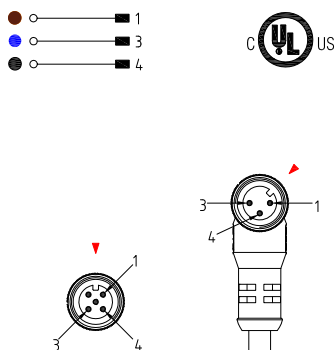
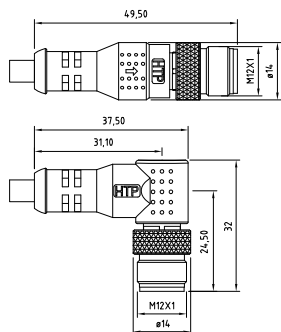
| Product description                                          |                    |                                                                               |                    |                                                                               |                    |                                                                               |                    |
|--------------------------------------------------------------|--------------------|-------------------------------------------------------------------------------|--------------------|-------------------------------------------------------------------------------|--------------------|-------------------------------------------------------------------------------|--------------------|
| Circular connector with moulded cable                        |                    | Circular connector with moulded cable                                         |                    | Circular connector with moulded cable                                         |                    | Circular connector with moulded cable                                         |                    |
| IEC 61076-2-101 / UL approved                                |                    | IEC 61076-2-101 / UL approved                                                 |                    | IEC 61076-2-101 / UL approved                                                 |                    | IEC 61076-2-101 / UL approved                                                 |                    |
| M12 A-Coded                                                  |                    | M12 A-Coded                                                                   |                    | M12 A-Coded                                                                   |                    | M12 A-Coded                                                                   |                    |
| Circular connector M12 series,ULapproved, with moulded cable |                    | Circular connector M12 series,ULapproved, TOTALLY SHIELDED with moulded cable |                    | Circular connector M12 series,ULapproved, TOTALLY SHIELDED with moulded cable |                    | Circular connector M12 series,ULapproved, TOTALLY SHIELDED with moulded cable |                    |
| <b>12FD8S1Z-UL</b>                                           | <b>12FA8S1Z-UL</b> | <b>12FJ331Z-UL</b>                                                            | <b>12FV331Z-UL</b> | <b>12FJ431Z-UL</b>                                                            | <b>12FV431Z-UL</b> | <b>12FJ531Z-UL</b>                                                            | <b>12FV531Z-UL</b> |
| Straight 180°                                                | Angled 90°         | Straight 180°                                                                 | Angled 90°         | Straight 180°                                                                 | Angled 90°         | Straight 180°                                                                 | Angled 90°         |
| Moulded cable                                                |                    | Moulded cable                                                                 |                    | Moulded cable                                                                 |                    | Moulded cable                                                                 |                    |
| Female                                                       |                    | Female                                                                        |                    | Female                                                                        |                    | Female                                                                        |                    |
| 8poles                                                       |                    | 3poles                                                                        |                    | 4poles                                                                        |                    | 5poles                                                                        |                    |
| Black                                                        |                    | Black                                                                         |                    | Black                                                                         |                    | Black                                                                         |                    |
| Technical data                                               |                    |                                                                               |                    |                                                                               |                    |                                                                               |                    |
| Contacts to solder wires                                     |                    | Contacts to crimp wires                                                       |                    | Contacts to crimp wires                                                       |                    | Contacts to crimp wires                                                       |                    |
| Brass + Gold flash                                           |                    | Brass + Gold flash                                                            |                    | Brass + Gold flash                                                            |                    | Brass + Gold flash                                                            |                    |
| Knurl round                                                  |                    | Knurl round                                                                   |                    | Knurl round                                                                   |                    | Knurl round                                                                   |                    |
| Brass + Nickel plated                                        |                    | Brass + Nickel plated                                                         |                    | Brass + Nickel plated                                                         |                    | Brass + Nickel plated                                                         |                    |
| 0.4 N*m                                                      |                    | 0.4 N*m                                                                       |                    | 0.4 N*m                                                                       |                    | 0.4 N*m                                                                       |                    |
| 30V AC/DC                                                    |                    | 250V AC/DC                                                                    |                    | 250V AC/DC                                                                    |                    | 60V AC/DC                                                                     |                    |
| 2A                                                           |                    | 4A                                                                            |                    | 4A                                                                            |                    | 4A                                                                            |                    |
| NBR                                                          |                    | NBR                                                                           |                    | NBR                                                                           |                    | NBR                                                                           |                    |
| PVC/PVC ULstyle 21179                                        |                    | PVC/PVC ULstyle 21179 SHIELDED                                                |                    | PVC/PVC ULstyle 21179 SHIELDED                                                |                    | PVC/PVC ULstyle 21179 SHIELDED                                                |                    |
| Black                                                        |                    | Black                                                                         |                    | Black                                                                         |                    | Black                                                                         |                    |
| 8xAWG24 (0.25mm²)                                            |                    | 3xAWG22 (0.34mm²)                                                             |                    | 4xAWG22 (0.34mm²)                                                             |                    | 5xAWG22 (0.34mm²)                                                             |                    |
| White;Brown;Green;Yellow;Grey;Pink;Blue;Red                  |                    | Brown; Blue; Black                                                            |                    | Brown; White; Blue; Black                                                     |                    | Brown; White; Blue; Black; Grey                                               |                    |
| ø6mm (±0.3)                                                  |                    | øn.a. (±0.3)                                                                  |                    | ø5.5 (±0.3)                                                                   |                    | ø6mm (±0.3)                                                                   |                    |
| 1m                                                           |                    | 1m                                                                            |                    | 1m                                                                            |                    | 1m                                                                            |                    |
| Packaging                                                    |                    |                                                                               |                    |                                                                               |                    |                                                                               |                    |
| 1 pc / bag                                                   |                    | 1 pc / bag                                                                    |                    | 1 pc / bag                                                                    |                    | 1 pc / bag                                                                    |                    |
| Other accessories options                                    |                    |                                                                               |                    |                                                                               |                    |                                                                               |                    |
| See accessories section                                      |                    |                                                                               |                    |                                                                               |                    |                                                                               |                    |
| Notes:                                                       |                    |                                                                               |                    |                                                                               |                    |                                                                               |                    |
| Connectors available with different features:                |                    |                                                                               |                    |                                                                               |                    |                                                                               |                    |
| See the general features and codification scheme page        |                    |                                                                               |                    |                                                                               |                    |                                                                               |                    |
| See the cables list section                                  |                    |                                                                               |                    |                                                                               |                    |                                                                               |                    |



|                                                                                                                                                        |                                                               |                    |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|--------------------|--|
| <b>Technical drawing</b>                                                                                                                               |                                                               |                    |  |
|                                                                       |                                                               |                    |  |
| <b>Product description</b>                                                                                                                             |                                                               |                    |  |
| Connector type                                                                                                                                         | Circular connector with moulded cable                         |                    |  |
| Conforms to                                                                                                                                            | IEC 61076-2-101 / UL approved                                 |                    |  |
| Construction type                                                                                                                                      | M12 A-Coded                                                   |                    |  |
| Description                                                                                                                                            | Circular connector M12 series, ULapproved, with moulded cable |                    |  |
| Part number                                                                                                                                            | <b>12FJ8P1Z-UL</b>                                            | <b>12FV8P1Z-UL</b> |  |
| Housing type                                                                                                                                           | Straight 180°                                                 | Angled 90°         |  |
| Cable gland                                                                                                                                            | Moulded cable                                                 |                    |  |
| Contacts type                                                                                                                                          | Female                                                        |                    |  |
| Number of contacts                                                                                                                                     | 8poles                                                        |                    |  |
| Housing colour                                                                                                                                         | Black                                                         |                    |  |
| <b>Technical data</b>                                                                                                                                  |                                                               |                    |  |
| Type of termination                                                                                                                                    | Contacts to solder wires                                      |                    |  |
| Contacts material                                                                                                                                      | Brass + Gold flash                                            |                    |  |
| Coupling nut type                                                                                                                                      | Knurl round                                                   |                    |  |
| M12 coupling nut material                                                                                                                              | Brass + Nickel plated                                         |                    |  |
| M12 coupling nut torque                                                                                                                                | 0.4 N*m                                                       |                    |  |
| Rated voltage                                                                                                                                          | 30V AC/DC                                                     |                    |  |
| Rated current                                                                                                                                          | 2A                                                            |                    |  |
| O-ring material                                                                                                                                        | NBR                                                           |                    |  |
| Cable type                                                                                                                                             | PVC/PVC ULstyle 21179 SHIELDED                                |                    |  |
| Cable jacket colour                                                                                                                                    | Black                                                         |                    |  |
| No. Conductors / Section                                                                                                                               | 8xAWG22 (0.25mm²)                                             |                    |  |
| Conductor colours                                                                                                                                      | White;Brown;Green;Yellow;Grey;Pink;Blue;Red                   |                    |  |
| Cable diameter                                                                                                                                         | ø n.a. (±0.3)                                                 |                    |  |
| Cable lenght                                                                                                                                           | 1m                                                            |                    |  |
| <b>Packaging</b>                                                                                                                                       |                                                               |                    |  |
| Qty/Bag                                                                                                                                                | 1 pc / bag                                                    |                    |  |
| <b>Other accessories options</b>                                                                                                                       |                                                               |                    |  |
| See accessories section                                                                                                                                |                                                               |                    |  |
| <b>Notes:</b><br>Connectors available with different feautres:<br>See the general features and codification scheme page<br>See the cables list section |                                                               |                    |  |



#### Technical drawing



#### Product description

|                    |                                                                |                    |                                                                |                    |                                                                |                    |
|--------------------|----------------------------------------------------------------|--------------------|----------------------------------------------------------------|--------------------|----------------------------------------------------------------|--------------------|
| Connector type     | Circular connector with moulded cable                          |                    | Circular connector with moulded cable                          |                    | Circular connector with moulded cable                          |                    |
| Conforms to        | IEC 61076-2-101 / UL approved                                  |                    | IEC 61076-2-101 / UL approved                                  |                    | IEC 61076-2-101 / UL approved                                  |                    |
| Construction type  | M12 A-Coded                                                    |                    | M12 A-Coded                                                    |                    | M12 A-Coded                                                    |                    |
| Description        | Circular connector M12 series, UL approved, with moulded cable |                    | Circular connector M12 series, UL approved, with moulded cable |                    | Circular connector M12 series, UL approved, with moulded cable |                    |
| Part number        | <b>12MD311Z-UL</b>                                             | <b>12MA311Z-UL</b> | <b>12MD411Z-UL</b>                                             | <b>12MA411Z-UL</b> | <b>12MD511Z-UL</b>                                             | <b>12MA511Z-UL</b> |
| Housing type       | Straight 180°                                                  | Angled 90°         | Straight 180°                                                  | Angled 90°         | Straight 180°                                                  | Angled 90°         |
| Cable gland        | Moulded cable                                                  |                    | Moulded cable                                                  |                    | Moulded cable                                                  |                    |
| Contacts type      | Male                                                           |                    | Male                                                           |                    | Male                                                           |                    |
| Number of contacts | 3poles                                                         |                    | 4poles                                                         |                    | 5poles                                                         |                    |
| Housing colour     | Black                                                          |                    | Black                                                          |                    | Black                                                          |                    |

#### Technical data

|                           |                         |  |                           |  |                                 |  |
|---------------------------|-------------------------|--|---------------------------|--|---------------------------------|--|
| Type of termination       | Contacts to crimp wires |  | Contacts to crimp wires   |  | Contacts to crimp wires         |  |
| Contacts material         | Brass + Gold flash      |  | Brass + Gold flash        |  | Brass + Gold flash              |  |
| Coupling nut type         | Knurl round             |  | Knurl round               |  | Knurl round                     |  |
| M12 coupling nut material | Brass + Nickel plated   |  | Brass + Nickel plated     |  | Brass + Nickel plated           |  |
| M12 coupling nut torque   | 0.4 N*m                 |  | 0.4 N*m                   |  | 0.4 N*m                         |  |
| Rated voltage             | 250V AC/DC              |  | 250V AC/DC                |  | 60V AC/DC                       |  |
| Rated current             | 4A                      |  | 4A                        |  | 4A                              |  |
| O-ring material           | -                       |  | -                         |  | -                               |  |
| Cable type                | PVC/PVC ULstyle 21179   |  | PVC/PVC ULstyle 21179     |  | PVC/PVC ULstyle 21179           |  |
| Cable jacket colour       | Black                   |  | Black                     |  | Black                           |  |
| No. Conductors / Section  | 3xAWG22 (0.34mm²)       |  | 4xAWG22 (0.34mm²)         |  | 5xAWG22 (0.34mm²)               |  |
| Conductor colours         | Brown; Blue; Black      |  | Brown; White; Blue; Black |  | Brown; White; Blue; Black; Grey |  |
| Cable diameter            | Ø4.8mm (±0.3)           |  | Ø5.2mm (±0.3)             |  | Ø5.8mm (±0.3)                   |  |
| Cable length              | 1m                      |  | 1m                        |  | 1m                              |  |

#### Packaging

|         |            |            |            |
|---------|------------|------------|------------|
| Qty/Bag | 1 pc / bag | 1 pc / bag | 1 pc / bag |
|---------|------------|------------|------------|

#### Other accessories options

See accessories section

#### Notes:

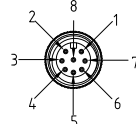
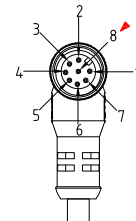
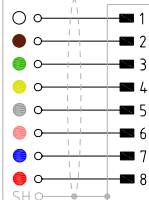
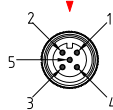
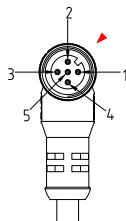
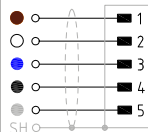
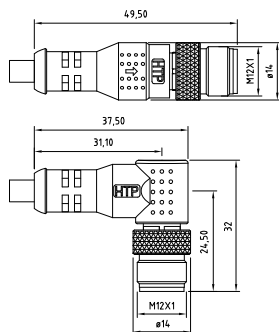
Connectors available with different features:  
See the general features and codification scheme page  
See the cables list section



|                                                       |  |                                                              |  |                    |  |                                                                                |  |                    |  |                                                                                |  |                    |  |
|-------------------------------------------------------|--|--------------------------------------------------------------|--|--------------------|--|--------------------------------------------------------------------------------|--|--------------------|--|--------------------------------------------------------------------------------|--|--------------------|--|
| <b>Technical drawing</b>                              |  |                                                              |  |                    |  |                                                                                |  |                    |  |                                                                                |  |                    |  |
|                                                       |  |                                                              |  |                    |  |                                                                                |  |                    |  |                                                                                |  |                    |  |
| <b>Product description</b>                            |  |                                                              |  |                    |  |                                                                                |  |                    |  |                                                                                |  |                    |  |
| Connector type                                        |  | Circular connector with moulded cable                        |  |                    |  | Circular connector with moulded cable                                          |  |                    |  | Circular connector with moulded cable                                          |  |                    |  |
| Conforms to                                           |  | IEC 61076-2-101 / UL approved                                |  |                    |  | IEC 61076-2-101 / UL approved                                                  |  |                    |  | IEC 61076-2-101 / UL approved                                                  |  |                    |  |
| Construction type                                     |  | M12 A-Coded                                                  |  |                    |  | M12 A-Coded                                                                    |  |                    |  | M12 A-Coded                                                                    |  |                    |  |
| Description                                           |  | Circular connector M12 series,ULapproved, with moulded cable |  |                    |  | Circular connector M12 series,UL approved, TOTALLY SHIELDED with moulded cable |  |                    |  | Circular connector M12 series,UL approved, TOTALLY SHIELDED with moulded cable |  |                    |  |
| Part number                                           |  | <b>12MD8S1Z-UL</b>                                           |  | <b>12MA8S1Z-UL</b> |  | <b>12MJ331Z-UL</b>                                                             |  | <b>12MV331Z-UL</b> |  | <b>12MJ431Z-UL</b>                                                             |  | <b>12MV431Z-UL</b> |  |
| Housing type                                          |  | Straight 180°                                                |  | Angled 90°         |  | Straight 180°                                                                  |  | Angled 90°         |  | Straight 180°                                                                  |  | Angled 90°         |  |
| Cable gland                                           |  | Moulded cable                                                |  |                    |  | Moulded cable                                                                  |  |                    |  | Moulded cable                                                                  |  |                    |  |
| Contacts type                                         |  | Male                                                         |  |                    |  | Male                                                                           |  |                    |  | Male                                                                           |  |                    |  |
| Number of contacts                                    |  | 8poles                                                       |  |                    |  | 3poles                                                                         |  |                    |  | 4poles                                                                         |  |                    |  |
| Housing colour                                        |  | Black                                                        |  |                    |  | Black                                                                          |  |                    |  | Black                                                                          |  |                    |  |
| <b>Technical data</b>                                 |  |                                                              |  |                    |  |                                                                                |  |                    |  |                                                                                |  |                    |  |
| Type of termination                                   |  | Contacts to solder wires                                     |  |                    |  | Contacts to crimp wires                                                        |  |                    |  | Contacts to crimp wires                                                        |  |                    |  |
| Contacts material                                     |  | Brass + Gold flash                                           |  |                    |  | Brass + Gold flash                                                             |  |                    |  | Brass + Gold flash                                                             |  |                    |  |
| Coupling nut type                                     |  | Knurl round                                                  |  |                    |  | Knurl round                                                                    |  |                    |  | Knurl round                                                                    |  |                    |  |
| M12 coupling nut material                             |  | Brass + Nickel plated                                        |  |                    |  | Brass + Nickel plated                                                          |  |                    |  | Brass + Nickel plated                                                          |  |                    |  |
| M12 coupling nut torque                               |  | 0.4 N*m                                                      |  |                    |  | 0.4 N*m                                                                        |  |                    |  | 0.4 N*m                                                                        |  |                    |  |
| Rated voltage                                         |  | 30V AC/DC                                                    |  |                    |  | 250V AC/DC                                                                     |  |                    |  | 250V AC/DC                                                                     |  |                    |  |
| Rated current                                         |  | 2A                                                           |  |                    |  | 4A                                                                             |  |                    |  | 4A                                                                             |  |                    |  |
| O-ring material                                       |  | -                                                            |  |                    |  | -                                                                              |  |                    |  | -                                                                              |  |                    |  |
| Cable type                                            |  | PVC/PVC ULstyle 21179                                        |  |                    |  | PVC/PVC ULstyle 21179 SHIELDED                                                 |  |                    |  | PVC/PVC ULstyle 21179 SHIELDED                                                 |  |                    |  |
| Cable jacket colour                                   |  | Black                                                        |  |                    |  | Black                                                                          |  |                    |  | Black                                                                          |  |                    |  |
| No. Conductors / Section                              |  | 8xAWG24 (0.25mm²)                                            |  |                    |  | 3xAWG22 (0.34mm²)                                                              |  |                    |  | 4xAWG22 (0.34mm²)                                                              |  |                    |  |
| Conductor colours                                     |  | White;Brown;Green;Yellow;Grey;Pink;Blue;Red                  |  |                    |  | Brown; Blue; Black                                                             |  |                    |  | Brown; White; Blue; Black                                                      |  |                    |  |
| Cable diameter                                        |  | ø6mm (±0.3)                                                  |  |                    |  | ø.n.a. (±0.3)                                                                  |  |                    |  | ø5.5mm (±0.3)                                                                  |  |                    |  |
| Cable length                                          |  | 1m                                                           |  |                    |  | 1m                                                                             |  |                    |  | 1m                                                                             |  |                    |  |
| <b>Packaging</b>                                      |  |                                                              |  |                    |  |                                                                                |  |                    |  |                                                                                |  |                    |  |
| Qty/Bag                                               |  | 1 pc / bag                                                   |  |                    |  | 1 pc / bag                                                                     |  |                    |  | 1 pc / bag                                                                     |  |                    |  |
| <b>Other accessories options</b>                      |  |                                                              |  |                    |  |                                                                                |  |                    |  |                                                                                |  |                    |  |
| See accessories section                               |  |                                                              |  |                    |  |                                                                                |  |                    |  |                                                                                |  |                    |  |
| <b>Notes:</b>                                         |  |                                                              |  |                    |  |                                                                                |  |                    |  |                                                                                |  |                    |  |
| Connectors available with different features:         |  |                                                              |  |                    |  |                                                                                |  |                    |  |                                                                                |  |                    |  |
| See the general features and codification scheme page |  |                                                              |  |                    |  |                                                                                |  |                    |  |                                                                                |  |                    |  |
| See the cables list section                           |  |                                                              |  |                    |  |                                                                                |  |                    |  |                                                                                |  |                    |  |



#### Technical drawing



#### Product description

|                    |                                                                                 |                    |                                                                                 |                    |
|--------------------|---------------------------------------------------------------------------------|--------------------|---------------------------------------------------------------------------------|--------------------|
| Connector type     | Circular connector with moulded cable                                           |                    | Circular connector with moulded cable                                           |                    |
| Conforms to        | IEC 61076-2-101 / UL approved                                                   |                    | IEC 61076-2-101 / UL approved                                                   |                    |
| Construction type  | M12 A-Coded                                                                     |                    | M12 A-Coded                                                                     |                    |
| Description        | Circular connector M12 series, UL approved, TOTALLY SHIELDED with moulded cable |                    | Circular connector M12 series, UL approved, TOTALLY SHIELDED with moulded cable |                    |
| Part number        | <b>12MJ5F1Z-UL</b>                                                              | <b>12MV5F1Z-UL</b> | <b>12MJ8P1Z-UL</b>                                                              | <b>12MV8P1Z-UL</b> |
| Housing type       | Straight 180°                                                                   | Angled 90°         | Straight 180°                                                                   | Angled 90°         |
| Cable gland        | Moulded cable                                                                   |                    | Moulded cable                                                                   |                    |
| Contacts type      | Male                                                                            |                    | Male                                                                            |                    |
| Number of contacts | 5poles                                                                          |                    | 8poles                                                                          |                    |
| Housing colour     | Black                                                                           |                    | Black                                                                           |                    |

#### Technical data

|                           |                                 |  |                                                    |  |
|---------------------------|---------------------------------|--|----------------------------------------------------|--|
| Type of termination       | Contacts to crimp wires         |  | Contacts to solder wires                           |  |
| Contacts material         | Brass + Gold flash              |  | Brass + Gold flash                                 |  |
| Coupling nut type         | Knurl round                     |  | Knurl round                                        |  |
| M12 coupling nut material | Brass + Nickel plated           |  | Brass + Nickel plated                              |  |
| M12 coupling nut torque   | 0.4 N*m                         |  | 0.4 N*m                                            |  |
| Rated voltage             | 60V AC/DC                       |  | 30V AC/DC                                          |  |
| Rated current             | 4A                              |  | 2A                                                 |  |
| O-ring material           | -                               |  | -                                                  |  |
| Cable type                | PVC/PVC ULstyle 21179 SHIELDED  |  | PVC/PVC ULstyle 21179 SHIELDED                     |  |
| Cable jacket colour       | Black                           |  | Black                                              |  |
| No. Conductors / Section  | 5xAWG22 (0.34mm²)               |  | 8xAWG24 (0.25mm²)                                  |  |
| Conductor colours         | Brown; White; Blue; Black; Grey |  | White; Brown; Green; Yellow; Grey; Pink; Blue; Red |  |
| Cable diameter            | ø 6mm (±0.3)                    |  | ø n.a. (±0.3)                                      |  |
| Cable lenght              | 1m                              |  | 1m                                                 |  |

#### Packaging

|         |            |            |
|---------|------------|------------|
| Qty/Bag | 1 pc / bag | 1 pc / bag |
|---------|------------|------------|

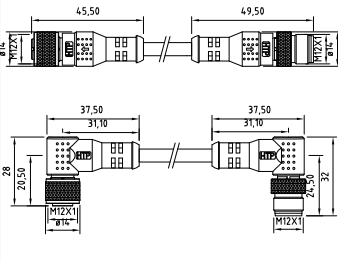
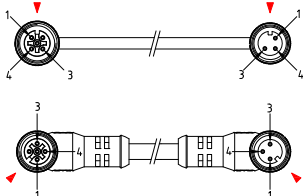
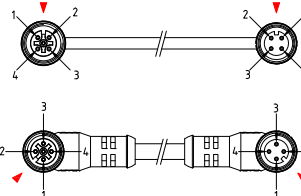
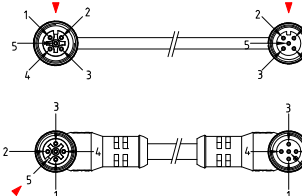
#### Other accessories options

See accessories section

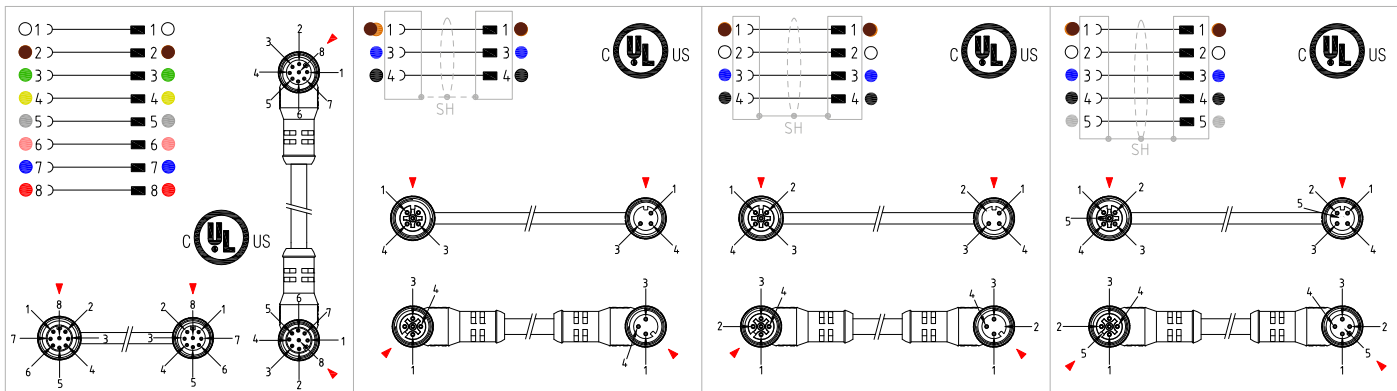
#### Notes:

Connectors available with different features:  
See the general features and codification scheme page  
See the cables list section



|                                                                                                                                                        |  |                                                                                   |                        |                                                                                    |                        |                                                                                     |                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------|------------------------|------------------------------------------------------------------------------------|------------------------|-------------------------------------------------------------------------------------|------------------------|
| <b>Technical drawing</b>                                                                                                                               |  |  |                        |  |                        |  |                        |
|                                                                       |  |  |                        |  |                        |  |                        |
| <b>Product description</b>                                                                                                                             |  |                                                                                   |                        |                                                                                    |                        |                                                                                     |                        |
| Connector type                                                                                                                                         |  | Circular connector with moulded cable                                             |                        | Circular connector with moulded cable                                              |                        | Circular connector with moulded cable                                               |                        |
| Conforms to                                                                                                                                            |  | IEC 61076-2-101 / UL approved                                                     |                        | IEC 61076-2-101 / UL approved                                                      |                        | IEC 61076-2-101 / UL approved                                                       |                        |
| Construction type                                                                                                                                      |  | M12 A-Coded                                                                       |                        | M12 A-Coded                                                                        |                        | M12 A-Coded                                                                         |                        |
| Description                                                                                                                                            |  | Extension M12-M12 connectors,UL approved, with moulded cable                      |                        | Extension M12-M12 connectors,UL approved, with moulded cable                       |                        | Extension M12-M12 connectors,UL approved, with moulded cable                        |                        |
| Part number                                                                                                                                            |  | <b>12FD3I1Z12MD-UL</b>                                                            | <b>12FA3I1Z12MA-UL</b> | <b>12FD4I1Z12MD-UL</b>                                                             | <b>12FA4I1Z12MA-UL</b> | <b>12FD5I1Z12MD-UL</b>                                                              | <b>12FA5I1Z12MA-UL</b> |
| Housing type                                                                                                                                           |  | 180°-180°                                                                         | 90°-90°                | 180°-180°                                                                          | 90°-90°                | 180°-180°                                                                           | 90°-90°                |
| Cable gland                                                                                                                                            |  | Moulded cable                                                                     |                        | Moulded cable                                                                      |                        | Moulded cable                                                                       |                        |
| Contacts type                                                                                                                                          |  | Female-Male                                                                       |                        | Female-Male                                                                        |                        | Female-Male                                                                         |                        |
| Number of contacts                                                                                                                                     |  | 3poles                                                                            |                        | 4poles                                                                             |                        | 5poles                                                                              |                        |
| Housing colour                                                                                                                                         |  | Black                                                                             |                        | Black                                                                              |                        | Black                                                                               |                        |
| <b>Technical data</b>                                                                                                                                  |  |                                                                                   |                        |                                                                                    |                        |                                                                                     |                        |
| Type of termination                                                                                                                                    |  | Contacts to crimp wires                                                           |                        | Contacts to crimp wires                                                            |                        | Contacts to crimp wires                                                             |                        |
| Contacts material                                                                                                                                      |  | Brass + Gold flash                                                                |                        | Brass + Gold flash                                                                 |                        | Brass + Gold flash                                                                  |                        |
| Coupling nut type                                                                                                                                      |  | Knurl round                                                                       |                        | Knurl round                                                                        |                        | Knurl round                                                                         |                        |
| M12 coupling nut material                                                                                                                              |  | Brass + Nickel plated                                                             |                        | Brass + Nickel plated                                                              |                        | Brass + Nickel plated                                                               |                        |
| M12 coupling nut torque                                                                                                                                |  | 0.4 N*m                                                                           |                        | 0.4 N*m                                                                            |                        | 0.4 N*m                                                                             |                        |
| Rated voltage                                                                                                                                          |  | 250V AC/DC                                                                        |                        | 250V AC/DC                                                                         |                        | 60V AC/DC                                                                           |                        |
| Rated current                                                                                                                                          |  | 4A                                                                                |                        | 4A                                                                                 |                        | 4A                                                                                  |                        |
| O-ring material                                                                                                                                        |  | NBR (on female connector)                                                         |                        | NBR (on female connector)                                                          |                        | NBR (on female connector)                                                           |                        |
| Cable type                                                                                                                                             |  | PVC/PVC ULstyle 21179                                                             |                        | PVC/PVC ULstyle 21179                                                              |                        | PVC/PVC ULstyle 21179                                                               |                        |
| Cable jacket colour                                                                                                                                    |  | Black                                                                             |                        | Black                                                                              |                        | Black                                                                               |                        |
| No.Conductors / Section                                                                                                                                |  | 3xAWG22 (0.34mm²)                                                                 |                        | 4xAWG22 (0.34mm²)                                                                  |                        | 5xAWG22 (0.34mm²)                                                                   |                        |
| Conductor colours                                                                                                                                      |  | Brown; Blue; Black                                                                |                        | Brown; White; Blue; Black                                                          |                        | Brown; White; Blue; Black; Grey                                                     |                        |
| Cable diameter                                                                                                                                         |  | ø4.8mm (±0.3)                                                                     |                        | ø5.2mm (±0.3)                                                                      |                        | ø5.8mm (±0.3)                                                                       |                        |
| Cable length                                                                                                                                           |  | 1m                                                                                |                        | 1m                                                                                 |                        | 1m                                                                                  |                        |
| <b>Packaging</b>                                                                                                                                       |  |                                                                                   |                        |                                                                                    |                        |                                                                                     |                        |
| Qty/Bag                                                                                                                                                |  | 1 pc / bag                                                                        |                        | 1 pc / bag                                                                         |                        | 1 pc / bag                                                                          |                        |
| <b>Other accessories options</b>                                                                                                                       |  |                                                                                   |                        |                                                                                    |                        |                                                                                     |                        |
| See accessories section                                                                                                                                |  |                                                                                   |                        |                                                                                    |                        |                                                                                     |                        |
| <b>Notes:</b><br>Connectors available with different feautres:<br>See the general features and codification scheme page<br>See the cables list section |  |                                                                                   |                        |                                                                                    |                        |                                                                                     |                        |



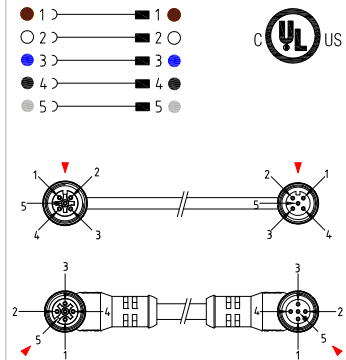
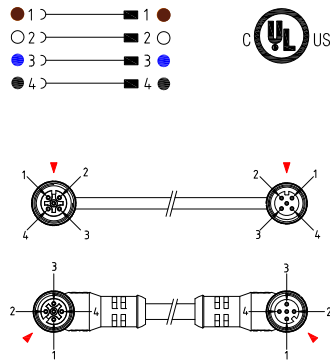
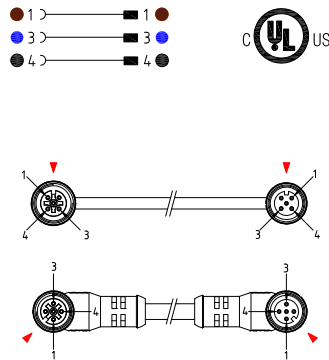
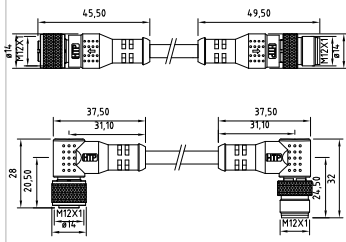


| Product description                                                                                                                   |                        |                                                                               |                        |                                                                               |                        |                                                                               |                        |
|---------------------------------------------------------------------------------------------------------------------------------------|------------------------|-------------------------------------------------------------------------------|------------------------|-------------------------------------------------------------------------------|------------------------|-------------------------------------------------------------------------------|------------------------|
| Circular connector with moulded cable                                                                                                 |                        | Circular connector with moulded cable                                         |                        | Circular connector with moulded cable                                         |                        | Circular connector with moulded cable                                         |                        |
| IEC 61076-2-101 / UL approved                                                                                                         |                        | IEC 61076-2-101 / UL approved                                                 |                        | IEC 61076-2-101 / UL approved                                                 |                        |                                                                               |                        |
| M12 A-Coded                                                                                                                           |                        | M12 A-Coded                                                                   |                        | M12 A-Coded                                                                   |                        | M12 A-Coded                                                                   |                        |
| Extension M12-M12 connectors,UL approved, with moulded cable                                                                          |                        | Extension M12-M12 connectors,UL approved, TOTALLY SHIELDED with moulded cable |                        | Extension M12-M12 connectors,UL approved, TOTALLY SHIELDED with moulded cable |                        | Extension M12-M12 connectors,UL approved, TOTALLY SHIELDED with moulded cable |                        |
| <b>12FD8S1Z12MD-UL</b>                                                                                                                | <b>12FA8S1Z12MA-UL</b> | <b>12FJ331Z12MJ-UL</b>                                                        | <b>12FV331Z12MV-UL</b> | <b>12FJ431Z12MJ-UL</b>                                                        | <b>12FV431Z12MV-UL</b> | <b>12FJ531Z12MJ-UL</b>                                                        | <b>12FV531Z12MV-UL</b> |
| 180°-180°                                                                                                                             | 90°-90°                | 180°-180°                                                                     | 90°-90°                | 180°-180°                                                                     | 90°-90°                | 180°-180°                                                                     | 90°-90°                |
| Moulded cable                                                                                                                         |                        | Moulded cable                                                                 |                        | Moulded cable                                                                 |                        | Moulded cable                                                                 |                        |
| Female-Male                                                                                                                           |                        | Female-Male                                                                   |                        | Female-Male                                                                   |                        | Female-Male                                                                   |                        |
| 8poles                                                                                                                                |                        | 3poles                                                                        |                        | 4poles                                                                        |                        | 5poles                                                                        |                        |
| Black                                                                                                                                 |                        | Black                                                                         |                        | Black                                                                         |                        | Black                                                                         |                        |
| Technical data                                                                                                                        |                        |                                                                               |                        |                                                                               |                        |                                                                               |                        |
| Contacts to solder wires                                                                                                              |                        | Contacts to crimp wires                                                       |                        | Contacts to crimp wires                                                       |                        | Contacts to crimp wires                                                       |                        |
| Brass + Gold flash                                                                                                                    |                        | Brass + Gold flash                                                            |                        | Brass + Gold flash                                                            |                        | Brass + Gold flash                                                            |                        |
| Knurl round                                                                                                                           |                        | Knurl round                                                                   |                        | Knurl round                                                                   |                        | Knurl round                                                                   |                        |
| Brass + Nickel plated                                                                                                                 |                        | Brass + Nickel plated                                                         |                        | Brass + Nickel plated                                                         |                        | Brass + Nickel plated                                                         |                        |
| 0.4 N*m                                                                                                                               |                        | 0.4 N*m                                                                       |                        | 0.4 N*m                                                                       |                        | 0.4 N*m                                                                       |                        |
| 30V AC/DC                                                                                                                             |                        | 250V AC/DC                                                                    |                        | 250V AC/DC                                                                    |                        | 60V AC/DC                                                                     |                        |
| 2A                                                                                                                                    |                        | 4A                                                                            |                        | 4A                                                                            |                        | 4A                                                                            |                        |
| NBR (on female connector)                                                                                                             |                        | NBR (on female connector)                                                     |                        | NBR (on female connector)                                                     |                        | NBR (on female connector)                                                     |                        |
| PVC/PVC ULstyle 21179                                                                                                                 |                        | PVC/PVC ULstyle 21179 SHIELDED                                                |                        | PVC/PVC ULstyle 21179 SHIELDED                                                |                        | PVC/PVC ULstyle 21179 SHIELDED                                                |                        |
| Black                                                                                                                                 |                        | Black                                                                         |                        | Black                                                                         |                        | Black                                                                         |                        |
| 8xAWG24 (0.25mm²)                                                                                                                     |                        | 3xAWG22 (0.34mm²)                                                             |                        | 4xAWG22 (0.34mm²)                                                             |                        | 5xAWG22 (0.34mm²)                                                             |                        |
| White;Brown;Green;Yellow;Grey;Pink;Blue;Red                                                                                           |                        | Brown; Blue; Black                                                            |                        | Brown; White; Blue; Black                                                     |                        | Brown; White; Blue; Black; Grey                                               |                        |
| ø6mm (±0.3)                                                                                                                           |                        | ø.n.a. (±0.3)                                                                 |                        | ø5.5mm (±0.3)                                                                 |                        | ø6mm (±0.3)                                                                   |                        |
| 1m                                                                                                                                    |                        | 1m                                                                            |                        | 1m                                                                            |                        | 1m                                                                            |                        |
| Packaging                                                                                                                             |                        |                                                                               |                        |                                                                               |                        |                                                                               |                        |
| 1 pc / bag                                                                                                                            |                        | 1 pc / bag                                                                    |                        | 1 pc / bag                                                                    |                        | 1 pc / bag                                                                    |                        |
| Other accessories options                                                                                                             |                        |                                                                               |                        |                                                                               |                        |                                                                               |                        |
| See accessories section                                                                                                               |                        |                                                                               |                        |                                                                               |                        |                                                                               |                        |
| Notes:                                                                                                                                |                        |                                                                               |                        |                                                                               |                        |                                                                               |                        |
| Connectors available with different features:<br>See the general features and codification scheme page<br>See the cables list section |                        |                                                                               |                        |                                                                               |                        |                                                                               |                        |

|                                                                                                                                                        |                                                                     |                     |                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|---------------------|---------------------------------------------------------------------|
| <b>Technical drawing</b>                                                                                                                               |                                                                     |                     |                                                                     |
| <b>Product description</b>                                                                                                                             |                                                                     |                     |                                                                     |
| Connector type                                                                                                                                         | Circular connector with moulded cable                               |                     | Circular connector with moulded cable                               |
| Conforms to                                                                                                                                            | IEC 61076-2-101                                                     |                     | IEC 61076-2-101                                                     |
| Construction type                                                                                                                                      | M12 A-Coded                                                         |                     | M12 A-Coded                                                         |
| Description                                                                                                                                            | Extension M12-M12 connectors<br>TOTALLY SHIELDED with moulded cable |                     | Extension M12-M12 connectors<br>TOTALLY SHIELDED with moulded cable |
| Part number                                                                                                                                            | <b>12FJ5F1Z12MJ</b>                                                 | <b>12FV5F1Z12MV</b> | <b>12FJ8J1Z12MJ</b> <b>12FV8J1Z12MV</b>                             |
| Housing type                                                                                                                                           | 180°-180°                                                           | 90°-90°             | 180°-180°    90°-90°                                                |
| Cable gland                                                                                                                                            | Moulded cable                                                       |                     | Moulded cable                                                       |
| Contacts type                                                                                                                                          | Female-Male                                                         |                     | Female-Male                                                         |
| Number of contacts                                                                                                                                     | 5poles                                                              |                     | 8poles                                                              |
| Housing colour                                                                                                                                         | Black                                                               |                     | Black                                                               |
| <b>Technical data</b>                                                                                                                                  |                                                                     |                     |                                                                     |
| Type of termination                                                                                                                                    | Contacts to crimp wires                                             |                     | Contacts to solder wires                                            |
| Contacts material                                                                                                                                      | Brass + Gold flash                                                  |                     | Brass + Gold flash                                                  |
| Coupling nut type                                                                                                                                      | Knurl round                                                         |                     | Knurl round                                                         |
| M12 coupling nut material                                                                                                                              | Brass + Nickel plated                                               |                     | Brass + Nickel plated                                               |
| M12 coupling nut torque                                                                                                                                | 0.4 N*m                                                             |                     | 0.4 N*m                                                             |
| Rated voltage                                                                                                                                          | 60V AC/DC                                                           |                     | 30V AC/DC                                                           |
| Rated current                                                                                                                                          | 4A                                                                  |                     | 2A                                                                  |
| O-ring material                                                                                                                                        | NBR (on female connector)                                           |                     | NBR (on female connector)                                           |
| Cable type                                                                                                                                             | PVC/PVC CEI2022                                                     |                     | PVC/PVC CEI2022                                                     |
| Cable jacket colour                                                                                                                                    | Black                                                               |                     | Black                                                               |
| No.Conductors / Section                                                                                                                                | 5x0.34mm²                                                           |                     | 8x0.25mm²                                                           |
| Conductor colours                                                                                                                                      | Brown; White; Blue; Black; Grey                                     |                     | White;Brown;Green;Yellow;Grey;Pink;Blue;Red                         |
| Cable diameter                                                                                                                                         | ø6mm (±0.3)                                                         |                     | ø6.5mm (±0.3)                                                       |
| Cable lenght                                                                                                                                           | 1m                                                                  |                     | 1m                                                                  |
| <b>Packaging</b>                                                                                                                                       |                                                                     |                     |                                                                     |
| Qty/Bag                                                                                                                                                | 1 pc / bag                                                          |                     | 1 pc / bag                                                          |
| <b>Other accessories options</b>                                                                                                                       |                                                                     |                     |                                                                     |
| See accessories section                                                                                                                                |                                                                     |                     |                                                                     |
| <b>Notes:</b><br>Connectors available with different features:<br>See the general features and codification scheme page<br>See the cables list section |                                                                     |                     |                                                                     |



#### Technical drawing



#### Product description

|                    |                                                              |                     |                                                              |                     |                                                              |                     |
|--------------------|--------------------------------------------------------------|---------------------|--------------------------------------------------------------|---------------------|--------------------------------------------------------------|---------------------|
| Connector type     | Circular connector with moulded cable                        |                     | Circular connector with moulded cable                        |                     | Circular connector with moulded cable                        |                     |
| Conforms to        | IEC 61076-2-101 / UL approved                                |                     | IEC 61076-2-101 / UL approved                                |                     | IEC 61076-2-101 / UL approved                                |                     |
| Construction type  | M12 A-Coded                                                  |                     | M12 A-Coded                                                  |                     | M12 A-Coded                                                  |                     |
| Description        | Extension M12-M12 connectors,UL approved, with moulded cable |                     | Extension M12-M12 connectors,UL approved, with moulded cable |                     | Extension M12-M12 connectors,UL approved, with moulded cable |                     |
| Part number        | <b>12FD331Z12MD</b>                                          | <b>12FA331Z12MA</b> | <b>12FD411Z12MD</b>                                          | <b>12FA411Z12MA</b> | <b>12FD511Z12MD</b>                                          | <b>12FA511Z12MA</b> |
| Housing type       | 180°-180°                                                    | 90°-90°             | 180°-180°                                                    | 90°-90°             | 180°-180°                                                    | 90°-90°             |
| Cable gland        | Moulded cable                                                |                     | Moulded cable                                                |                     | Moulded cable                                                |                     |
| Contacts type      | Female-Male                                                  |                     | Female-Male                                                  |                     | Female-Male                                                  |                     |
| Number of contacts | 3poles                                                       |                     | 4poles                                                       |                     | 5poles                                                       |                     |
| Housing colour     | Black                                                        |                     | Black                                                        |                     | Black                                                        |                     |

#### Technical data

|                           |                                |  |                                |  |                                 |  |
|---------------------------|--------------------------------|--|--------------------------------|--|---------------------------------|--|
| Type of termination       | Contacts to crimp wires        |  | Contacts to crimp wires        |  | Contacts to crimp wires         |  |
| Contacts material         | Brass + Gold flash             |  | Brass + Gold flash             |  | Brass + Gold flash              |  |
| Coupling nut type         | Knurl round                    |  | Knurl round                    |  | Knurl round                     |  |
| M12 coupling nut material | Brass + Nickel plated          |  | Brass + Nickel plated          |  | Brass + Nickel plated           |  |
| M12 coupling nut torque   | 0.4 N*m                        |  | 0.4 N*m                        |  | 0.4 N*m                         |  |
| Rated voltage             | 250V AC/DC                     |  | 250V AC/DC                     |  | 60V AC/DC                       |  |
| Rated current             | 4A                             |  | 4A                             |  | 4A                              |  |
| O-ring material           | NBR (on female connector)      |  | NBR (on female connector)      |  | NBR (on female connector)       |  |
| Cable type                | PVC/PVC ULstyle 21179          |  | PVC/PVC ULstyle 21179          |  | PVC/PVC ULstyle 21179           |  |
| Cable jacket colour       | Black                          |  | Black                          |  | Black                           |  |
| No.Conductors / Section   | 3xAWG22 (0.34mm <sup>2</sup> ) |  | 4xAWG22 (0.34mm <sup>2</sup> ) |  | 5xAWG22 (0.34mm <sup>2</sup> )  |  |
| Conductor colours         | Brown; Blue; Black             |  | Brown; White; Blue; Black      |  | Brown; White; Blue; Black; Grey |  |
| Cable diameter            | ø4.8mm (±0.3)                  |  | ø5.2mm (±0.3)                  |  | ø5.8mm (±0.3)                   |  |
| Cable lenght              | 1m                             |  | 1m                             |  | 1m                              |  |

#### Packaging

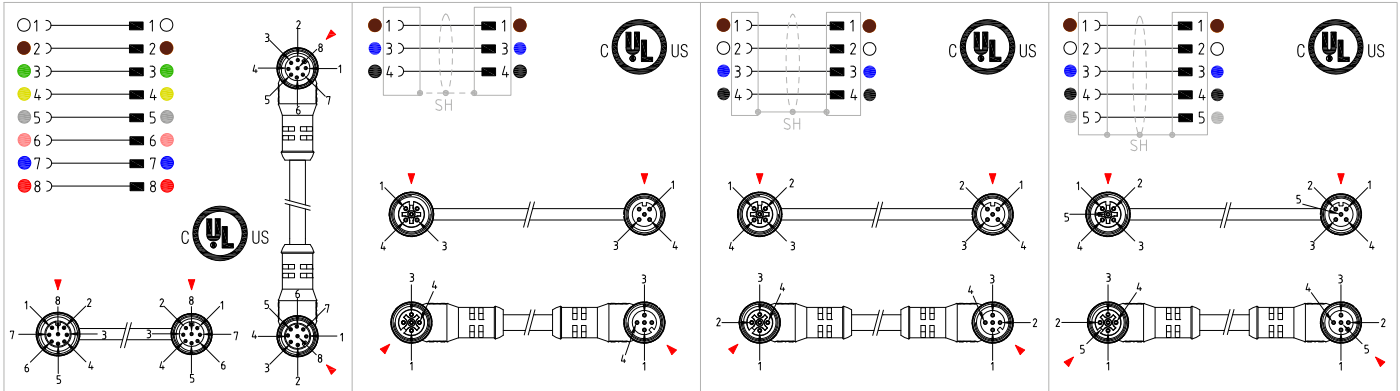
|         |            |            |            |
|---------|------------|------------|------------|
| Qty/Bag | 1 pc / bag | 1 pc / bag | 1 pc / bag |
|---------|------------|------------|------------|

#### Other accessories options

See accessories section

#### Notes:

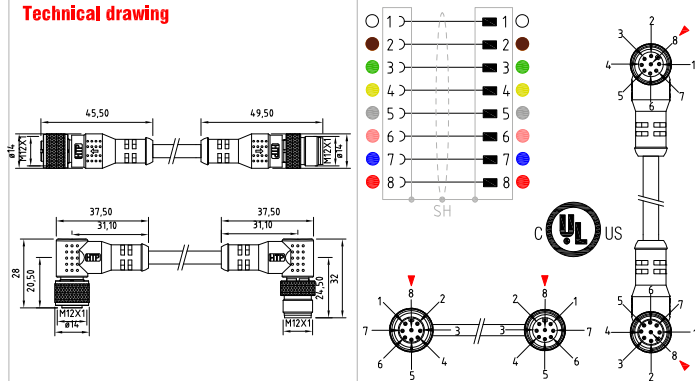
Connectors available with different features:  
See the general features and codification scheme page  
See the cables list section



| Product description                                                                                                                   |                     |                                                                               |                     |                                                                               |                     |                                                                               |                     |
|---------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------------------------------------------------------------------------|---------------------|-------------------------------------------------------------------------------|---------------------|-------------------------------------------------------------------------------|---------------------|
| Circular connector with moulded cable                                                                                                 |                     | Circular connector with moulded cable                                         |                     | Circular connector with moulded cable                                         |                     | Circular connector with moulded cable                                         |                     |
| IEC 61076-2-101 / UL approved                                                                                                         |                     | IEC 61076-2-101 / UL approved                                                 |                     | IEC 61076-2-101 / UL approved                                                 |                     |                                                                               |                     |
| M12 A-Coded                                                                                                                           |                     | M12 A-Coded                                                                   |                     | M12 A-Coded                                                                   |                     | M12 A-Coded                                                                   |                     |
| Extension M12-M12 connectors,UL approved, with moulded cable                                                                          |                     | Extension M12-M12 connectors,UL approved, TOTALLY SHIELDED with moulded cable |                     | Extension M12-M12 connectors,UL approved, TOTALLY SHIELDED with moulded cable |                     | Extension M12-M12 connectors,UL approved, TOTALLY SHIELDED with moulded cable |                     |
| <b>12FD8S1Z12MD</b>                                                                                                                   | <b>12FA8S1Z12MA</b> | <b>12FJ331Z12MJ</b>                                                           | <b>12FV331Z12MV</b> | <b>12FJ431Z12MJ</b>                                                           | <b>12FV431Z12MV</b> | <b>12FJ531Z12MJ</b>                                                           | <b>12FV531Z12MV</b> |
| 180°-180°                                                                                                                             | 90°-90°             | 180°-180°                                                                     | 90°-90°             | 180°-180°                                                                     | 90°-90°             | 180°-180°                                                                     | 90°-90°             |
| Moulded cable                                                                                                                         |                     | Moulded cable                                                                 |                     | Moulded cable                                                                 |                     | Moulded cable                                                                 |                     |
| Female-Male                                                                                                                           |                     | Female-Male                                                                   |                     | Female-Male                                                                   |                     | Female-Male                                                                   |                     |
| 8poles                                                                                                                                |                     | 3poles                                                                        |                     | 4poles                                                                        |                     | 5poles                                                                        |                     |
| Black                                                                                                                                 |                     | Black                                                                         |                     | Black                                                                         |                     | Black                                                                         |                     |
| Technical data                                                                                                                        |                     |                                                                               |                     |                                                                               |                     |                                                                               |                     |
| Contacts to solder wires                                                                                                              |                     | Contacts to crimp wires                                                       |                     | Contacts to crimp wires                                                       |                     | Contacts to crimp wires                                                       |                     |
| Brass + Gold flash                                                                                                                    |                     | Brass + Gold flash                                                            |                     | Brass + Gold flash                                                            |                     | Brass + Gold flash                                                            |                     |
| Knurl round                                                                                                                           |                     | Knurl round                                                                   |                     | Knurl round                                                                   |                     | Knurl round                                                                   |                     |
| Brass + Nickel plated                                                                                                                 |                     | Brass + Nickel plated                                                         |                     | Brass + Nickel plated                                                         |                     | Brass + Nickel plated                                                         |                     |
| 0.4 N*m                                                                                                                               |                     | 0.4 N*m                                                                       |                     | 0.4 N*m                                                                       |                     | 0.4 N*m                                                                       |                     |
| 30V AC/DC                                                                                                                             |                     | 250V AC/DC                                                                    |                     | 250V AC/DC                                                                    |                     | 60V AC/DC                                                                     |                     |
| 2A                                                                                                                                    |                     | 4A                                                                            |                     | 4A                                                                            |                     | 4A                                                                            |                     |
| NBR (on female connector)                                                                                                             |                     | NBR (on female connector)                                                     |                     | NBR (on female connector)                                                     |                     | NBR (on female connector)                                                     |                     |
| PVC/PVC ULstyle 21179                                                                                                                 |                     | PVC/PVC ULstyle 21179 SHIELDED                                                |                     | PVC/PVC ULstyle 21179 SHIELDED                                                |                     | PVC/PVC ULstyle 21179 SHIELDED                                                |                     |
| Black                                                                                                                                 |                     | Black                                                                         |                     | Black                                                                         |                     | Black                                                                         |                     |
| 8xAWG24 (0.25mm²)                                                                                                                     |                     | 3xAWG22 (0.34mm²)                                                             |                     | 4xAWG22 (0.34mm²)                                                             |                     | 5xAWG22 (0.34mm²)                                                             |                     |
| White;Brown;Green;Yellow;Grey;Pink;Blue;Red                                                                                           |                     | Brown; Blue; Black                                                            |                     | Brown; White; Blue; Black                                                     |                     | Brown; White; Blue; Black; Grey                                               |                     |
| ø6mm (±0.3)                                                                                                                           |                     | øn.a. (±0.3)                                                                  |                     | ø5.5mm (±0.3)                                                                 |                     | ø6mm (±0.3)                                                                   |                     |
| 1m                                                                                                                                    |                     | 1m                                                                            |                     | 1m                                                                            |                     | 1m                                                                            |                     |
| Packaging                                                                                                                             |                     |                                                                               |                     |                                                                               |                     |                                                                               |                     |
| 1 pc / bag                                                                                                                            |                     | 1 pc / bag                                                                    |                     | 1 pc / bag                                                                    |                     | 1 pc / bag                                                                    |                     |
| Other accessories options                                                                                                             |                     |                                                                               |                     |                                                                               |                     |                                                                               |                     |
| See accessories section                                                                                                               |                     |                                                                               |                     |                                                                               |                     |                                                                               |                     |
| Notes:                                                                                                                                |                     |                                                                               |                     |                                                                               |                     |                                                                               |                     |
| Connectors available with different features:<br>See the general features and codification scheme page<br>See the cables list section |                     |                                                                               |                     |                                                                               |                     |                                                                               |                     |



#### Technical drawing



#### Product description

|                    |                                                                               |                        |
|--------------------|-------------------------------------------------------------------------------|------------------------|
| Connector type     | Circular connector with moulded cable                                         |                        |
| Conforms to        |                                                                               |                        |
| Construction type  | M12 A-Coded                                                                   |                        |
| Description        | Extension M12-M12 connectors,UL approved, TOTALLY SHIELDED with moulded cable |                        |
| Part number        | <b>12FJ8P1Z12MJ-UL</b>                                                        | <b>12FV8P1Z12MV-UL</b> |
| Housing type       | 180°-180°                                                                     | 90°-90°                |
| Cable gland        | Moulded cable                                                                 |                        |
| Contacts type      | Female-Male                                                                   |                        |
| Number of contacts | 8poles                                                                        |                        |
| Housing colour     | Black                                                                         |                        |

#### Technical data

|                           |                                             |  |
|---------------------------|---------------------------------------------|--|
| Type of termination       | Contacts to solder wires                    |  |
| Contacts material         | Brass + Gold flash                          |  |
| Coupling nut type         | Knurl round                                 |  |
| M12 coupling nut material | Brass + Nickel plated                       |  |
| M12 coupling nut torque   | 0.4 N*m                                     |  |
| Rated voltage             | 30V AC/DC                                   |  |
| Rated current             | 2A                                          |  |
| O-ring material           | NBR (on female connector)                   |  |
| Cable type                | PVC/PVC ULstyle21179 SHIELDED               |  |
| Cable jacket colour       | Black                                       |  |
| No.Conductors / Section   | 8xAWG24 (0.25mm²)                           |  |
| Conductor colours         | White;Brown;Green;Yellow;Grey;Pink;Blue;Red |  |
| Cable diameter            | ø n.a. (±0.3)                               |  |
| Cable lenght              | 1m                                          |  |

#### Packaging

|         |            |
|---------|------------|
| Qty/Bag | 1 pc / bag |
|---------|------------|

#### Other accessories options

See accessories section

#### Notes:

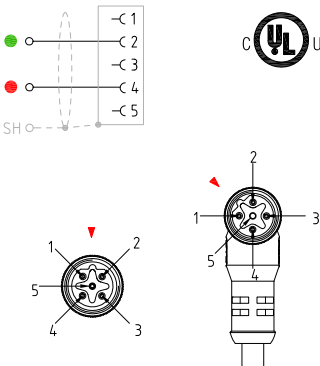
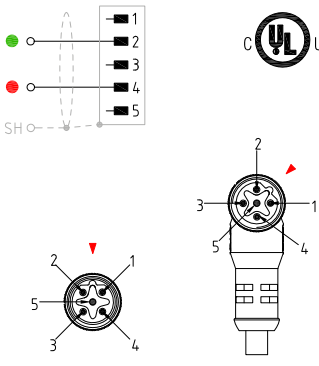
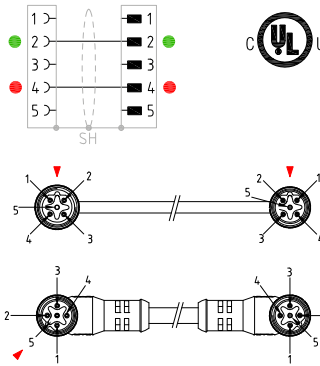
Connectors available with different features:  
See the general features and codification scheme page  
See the cables list section



|                                                                                                                                                        |                                                                            |                         |                                                                            |                         |                                                                           |            |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|-------------------------|----------------------------------------------------------------------------|-------------------------|---------------------------------------------------------------------------|------------|--|
| <b>Technical drawing</b>                                                                                                                               |                                                                            |                         |                                                                            |                         |                                                                           |            |  |
| <div><p>Female</p><p>Male</p></div>                                                                                                                    |                                                                            | <br>                    |                                                                            | <br>                    |                                                                           | <br>       |  |
| <b>Product description</b>                                                                                                                             |                                                                            |                         |                                                                            |                         |                                                                           |            |  |
| Connector type                                                                                                                                         | Circular connector with moulded cable                                      |                         | Circular connector with moulded cable                                      |                         | Circular connector with moulded cable                                     |            |  |
| Conforms to                                                                                                                                            | IEC 61076-2-101                                                            |                         | IEC 61076-2-101                                                            |                         | IEC 61076-2-101                                                           |            |  |
| Construction type                                                                                                                                      | M12 B-Coded                                                                |                         | M12 B-Coded                                                                |                         | M12 B-Coded                                                               |            |  |
| Description                                                                                                                                            | Circular connector M12 series,B-coded, TOTALLY SHIELDED,with moulded cable |                         | Circular connector M12 series,B-coded, TOTALLY SHIELDED,with moulded cable |                         | Extension M12-M12 connectors,B-coded, TOTALLY SHIELDED,with moulded cable |            |  |
| Part number                                                                                                                                            | <b>B-12FJ5T1Z-K6-IS</b>                                                    | <b>B-12FV5T1Z-K6-IS</b> | <b>B-12MJ5T1Z-K6-IS</b>                                                    | <b>B-12MV5T1Z-K6-IS</b> | <b>B-12FJ5T1Z12MJ-K6-IS B-12FV5T1Z12MV-K6-IS</b>                          |            |  |
| Housing type                                                                                                                                           | Straight 180°                                                              | Angled 90°              | Straight 180°                                                              | Angled 90°              | Straight 180°                                                             | Angled 90° |  |
| Cable gland                                                                                                                                            | Moulded cable                                                              |                         | Moulded cable                                                              |                         | Moulded cable                                                             |            |  |
| Contacts type                                                                                                                                          | Female                                                                     |                         | Male                                                                       |                         | Female-Male                                                               |            |  |
| Number of contacts                                                                                                                                     | 5poles                                                                     |                         | 5poles                                                                     |                         | 5poles                                                                    |            |  |
| Housing colour                                                                                                                                         | Black                                                                      |                         | Black                                                                      |                         | Black                                                                     |            |  |
| <b>Technical data</b>                                                                                                                                  |                                                                            |                         |                                                                            |                         |                                                                           |            |  |
| Type of termination                                                                                                                                    | Contacts to crimp wires                                                    |                         | Contacts to crimp wires                                                    |                         | Contacts to crimp wires                                                   |            |  |
| Contacts material                                                                                                                                      | Brass+Gold flash                                                           |                         | Brass+Gold flash                                                           |                         | Brass+Gold flash                                                          |            |  |
| Coupling nut type                                                                                                                                      | Knurl round                                                                |                         | Knurl round                                                                |                         | Knurl round                                                               |            |  |
| M12 coupling nut material                                                                                                                              | Brass+Nickel plated                                                        |                         | Brass+Nickel plated                                                        |                         | Brass+Nickel plated                                                       |            |  |
| M12 coupling nut torque                                                                                                                                | 0.4 N*m                                                                    |                         | 0.4 N*m                                                                    |                         | 0.4 N*m                                                                   |            |  |
| Rated voltage                                                                                                                                          | 60V AC/DC                                                                  |                         | 60V AC/DC                                                                  |                         | 60V AC/DC                                                                 |            |  |
| Rated current                                                                                                                                          | 4A                                                                         |                         | 4A                                                                         |                         | 4A                                                                        |            |  |
| O-ring material                                                                                                                                        | NBR                                                                        |                         | -                                                                          |                         | NBR (on female connector)                                                 |            |  |
| Cable type                                                                                                                                             | PUR PROFIBUS UL444 SHIELDED HIGH FLEX                                      |                         | PUR PROFIBUS UL444 SHIELDED HIGH FLEX                                      |                         | PUR PROFIBUS UL444 SHIELDED HIGH FLEX                                     |            |  |
| Cable jacket colour                                                                                                                                    | Violet RAL4001                                                             |                         | Violet RAL4001                                                             |                         | Violet RAL4001                                                            |            |  |
| No. Conductors / Section                                                                                                                               | 1x2xAWG24(0.25mm²)                                                         |                         | 1x2xAWG24(0.25mm²)                                                         |                         | 1x2xAWG24(0.25mm²)                                                        |            |  |
| Conductor colours                                                                                                                                      | Red; Green                                                                 |                         | Red; Green                                                                 |                         | Red; Green                                                                |            |  |
| Cable diameter                                                                                                                                         | ø8.2mm (±0.3)                                                              |                         | ø8.2mm (±0.3)                                                              |                         | ø8.2mm (±0.3)                                                             |            |  |
| Cable length                                                                                                                                           | 1m                                                                         |                         | 1m                                                                         |                         | 1m                                                                        |            |  |
| <b>Packaging</b>                                                                                                                                       |                                                                            |                         |                                                                            |                         |                                                                           |            |  |
| Qty/Bag                                                                                                                                                | 1 pc / bag                                                                 |                         | 1 pc / bag                                                                 |                         | 1 pc / bag                                                                |            |  |
| <b>Other accessories options</b>                                                                                                                       |                                                                            |                         |                                                                            |                         |                                                                           |            |  |
| See accessories section                                                                                                                                |                                                                            |                         |                                                                            |                         |                                                                           |            |  |
| <b>Notes:</b><br>Connectors available with different feautres:<br>See the general features and codification scheme page<br>See the cables list section |                                                                            |                         |                                                                            |                         |                                                                           |            |  |





|                                                                                   |                         |                                                                                   |                         |                                                                                    |                             |
|-----------------------------------------------------------------------------------|-------------------------|-----------------------------------------------------------------------------------|-------------------------|------------------------------------------------------------------------------------|-----------------------------|
|  |                         |  |                         |  |                             |
| <b>Product description</b>                                                        |                         |                                                                                   |                         |                                                                                    |                             |
| Circular connector with moulded cable                                             |                         | Circular connector with moulded cable                                             |                         | Circular connector with moulded cable                                              |                             |
| IEC 61076-2-101 / UL approved                                                     |                         | IEC 61076-2-101 / UL approved                                                     |                         | IEC 61076-2-101 / UL approved                                                      |                             |
| M12 B-Coded                                                                       |                         | M12 B-Coded                                                                       |                         | M12 B-Coded                                                                        |                             |
| Circular connector M12 series,B-coded, TOTALLY SHIELDED,with moulded cable        |                         | Circular connector M12 series,B-coded, TOTALLY SHIELDED,with moulded cable        |                         | Extension M12-M12 connectors,B-coded, TOTALLY SHIELDED,with moulded cable          |                             |
| <b>B-12FJ5T1Z-K6-UL</b>                                                           | <b>B-12FV5T1Z-K6-UL</b> | <b>B-12MJ5T1Z-K6-UL</b>                                                           | <b>B-12MV5T1Z-K6-UL</b> | <b>B-12FJ5T1Z12MJ-K6-UL</b>                                                        | <b>B-12FV5T1Z12MV-K6-UL</b> |
| Straight 180°                                                                     | Angled 90°              | Straight 180°                                                                     | Angled 90°              | Straight 180°                                                                      | Angled 90°                  |
| Moulded cable                                                                     |                         | Moulded cable                                                                     |                         | Moulded cable                                                                      |                             |
| Female                                                                            |                         | Male                                                                              |                         | Female-Male                                                                        |                             |
| 5poles                                                                            |                         | 5poles                                                                            |                         | 5poles                                                                             |                             |
| Black                                                                             |                         | Black                                                                             |                         | Black                                                                              |                             |
| <b>Technical data</b>                                                             |                         |                                                                                   |                         |                                                                                    |                             |
| Contacts to crimp wires                                                           |                         | Contacts to crimp wires                                                           |                         | Contacts to crimp wires                                                            |                             |
| Brass+ Gold flash                                                                 |                         | Brass+ Gold flash                                                                 |                         | Brass+ Gold flash                                                                  |                             |
| Knurl round                                                                       |                         | Knurl round                                                                       |                         | Knurl round                                                                        |                             |
| Brass + Nickel plated                                                             |                         | Brass + Nickel plated                                                             |                         | Brass + Nickel plated                                                              |                             |
| 0.4 N*m                                                                           |                         | 0.4 N*m                                                                           |                         | 0.4 N*m                                                                            |                             |
| 60V AC/DC                                                                         |                         | 60V AC/DC                                                                         |                         | 60V AC/DC                                                                          |                             |
| 4A                                                                                |                         | 4A                                                                                |                         | 4A                                                                                 |                             |
| NBR                                                                               |                         | -                                                                                 |                         | NBR (on female connector)                                                          |                             |
| PUR PROFIBUS UL444 SHIELDED HIGH FLEX                                             |                         | PUR PROFIBUS UL444 SHIELDED HIGH FLEX                                             |                         | PUR PROFIBUS UL444 SHIELDED HIGH FLEX                                              |                             |
| Violet RAL4001                                                                    |                         | Violet RAL4001                                                                    |                         | Violet RAL4001                                                                     |                             |
| 1x2xAWG24(0.25mm²)                                                                |                         | 1x2xAWG24(0.25mm²)                                                                |                         | 1x2xAWG24(0.25mm²)                                                                 |                             |
| Red; Green                                                                        |                         | Red; Green                                                                        |                         | Red; Green                                                                         |                             |
| ø8.2mm (±0.3)                                                                     |                         | ø8.2mm (±0.3)                                                                     |                         | ø8.2mm (±0.3)                                                                      |                             |
| 1m                                                                                |                         | 1m                                                                                |                         | 1m                                                                                 |                             |
| <b>Packaging</b>                                                                  |                         |                                                                                   |                         |                                                                                    |                             |
| 1 pc / bag                                                                        |                         | 1 pc / bag                                                                        |                         | 1 pc / bag                                                                         |                             |
| <b>Other accessories options</b>                                                  |                         |                                                                                   |                         |                                                                                    |                             |
| See accessories section                                                           |                         |                                                                                   |                         |                                                                                    |                             |
| <b>Notes:</b>                                                                     |                         |                                                                                   |                         |                                                                                    |                             |
| Connectors available with different features:                                     |                         |                                                                                   |                         |                                                                                    |                             |
| See the general features and codification scheme page                             |                         |                                                                                   |                         |                                                                                    |                             |
| See the cables list section                                                       |                         |                                                                                   |                         |                                                                                    |                             |



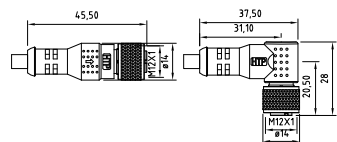
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|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|--------------------|----------------------------------------------------|-----------------------|-----------------------------------------------------------------------------|
| <b>Technical drawing</b>                                                                                                                               |                                                           |                    |                                                    |                       |                                                                             |
| <b>Product description</b>                                                                                                                             |                                                           |                    |                                                    |                       |                                                                             |
| Connector type                                                                                                                                         | Circular connector with moulded cable                     |                    | Circular connector panel mount                     |                       | Circular connector panel mount                                              |
| Conforms to                                                                                                                                            | IEC 61076-2-101                                           |                    | IEC 61076-2-101                                    |                       | IEC 61076-2-101                                                             |
| Construction type                                                                                                                                      | M12 C-Coded                                               |                    | M12 C-Coded                                        |                       | M12 C-Coded                                                                 |
| Description                                                                                                                                            | Circular connector M12 series,C-coded, with moulded cable |                    | Circular connector M12 series,C-coded, panel mount |                       | Circular connector M12 series,C-coded, panel mount,with PVC soldered wires. |
| Part number                                                                                                                                            | <b>C-12MD3011Z</b>                                        | <b>C-12MA3011Z</b> | <b>C-12FP3000-PG9</b>                              | <b>C-12FR3000-PG9</b> | <b>C-12FP3010C-PG9</b> <b>C-12FR3010C-PG9</b>                               |
| Housing type                                                                                                                                           | Straight 180°                                             | Angled 90°         | Frontal panel side                                 | Back panel side       | Frontal panel side   Back panel side                                        |
| Cable gland                                                                                                                                            | Moulded cable                                             |                    | PG9 (fixing thread)                                |                       | PG9 (fixing thread)                                                         |
| Contacts type                                                                                                                                          | Male                                                      |                    | Female                                             |                       | Female                                                                      |
| Number of contacts                                                                                                                                     | 3poles                                                    |                    | 3poles                                             |                       | 3poles                                                                      |
| Housing colour                                                                                                                                         | Black                                                     |                    | -                                                  |                       | -                                                                           |
| <b>Technical data</b>                                                                                                                                  |                                                           |                    |                                                    |                       |                                                                             |
| Type of termination                                                                                                                                    | Contacts to crimp wires                                   |                    | Contacts to solder wires                           |                       | Contacts to solder wires                                                    |
| Contacts material                                                                                                                                      | Brass + Gold flash                                        |                    | Brass + Gold flash                                 |                       | Brass + Gold flash                                                          |
| Coupling nut type                                                                                                                                      | Knurl round                                               |                    | Brass + Nickel plated                              |                       | Brass + Nickel plated                                                       |
| M12 coupling nut material                                                                                                                              | Brass + Nickel plated                                     |                    | Brass + Nickel plated (SW17)                       |                       | Brass + Nickel plated (SW17)                                                |
| M12 coupling nut torque                                                                                                                                | 0.4 N*m                                                   |                    | 0.4 N*m                                            |                       | 0.4 N*m                                                                     |
| Rated voltage                                                                                                                                          | 250V AC/DC                                                |                    | 250V AC / DC                                       |                       | 250V AC / DC                                                                |
| Rated current                                                                                                                                          | 4A                                                        |                    | 4A                                                 |                       | 4A                                                                          |
| O-ring material                                                                                                                                        | -                                                         |                    | NBR                                                |                       | NBR                                                                         |
| Cable type                                                                                                                                             | PVC/PVC CEI2022                                           |                    | -                                                  |                       | PVC                                                                         |
| Cable jacket colour                                                                                                                                    | Black                                                     |                    | -                                                  |                       | -                                                                           |
| No.Conductors / Section                                                                                                                                | 3x0.5mm <sup>2</sup>                                      |                    | -                                                  |                       | 3 x 0.5mm <sup>2</sup>                                                      |
| Conductor colours                                                                                                                                      | Brown; Blue; Yellow/Green                                 |                    | -                                                  |                       | Brown; Blue; Yellow/Green                                                   |
| Cable diameter                                                                                                                                         | ø5mm (±0.3)                                               |                    | -                                                  |                       | 0.3m                                                                        |
| Cable length                                                                                                                                           | 1m                                                        |                    |                                                    |                       |                                                                             |
| <b>Packaging</b>                                                                                                                                       |                                                           |                    |                                                    |                       |                                                                             |
| Qty/Bag                                                                                                                                                | 1 pc / bag                                                |                    | Not defined                                        |                       | Not defined                                                                 |
| <b>Other accessories options</b>                                                                                                                       |                                                           |                    |                                                    |                       |                                                                             |
| See accessories section                                                                                                                                |                                                           |                    |                                                    |                       |                                                                             |
| <b>Notes:</b><br>Connectors available with different feautres:<br>See the general features and codification scheme page<br>See the cables list section |                                                           |                    |                                                    |                       |                                                                             |



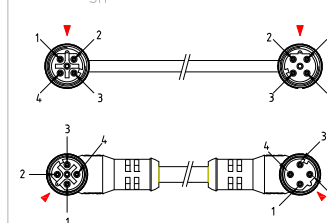
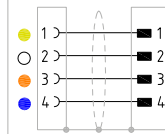
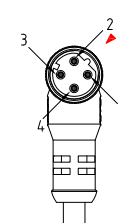
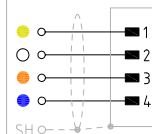
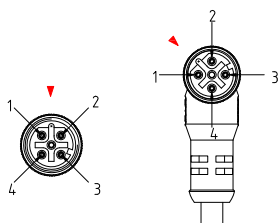
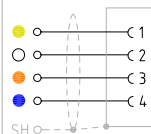
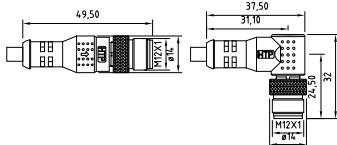


#### Technical drawing

##### Female



##### Male



#### Product description

|                    |                                                                            |                          |                                                                            |                          |                                                                           |                              |
|--------------------|----------------------------------------------------------------------------|--------------------------|----------------------------------------------------------------------------|--------------------------|---------------------------------------------------------------------------|------------------------------|
| Connector type     | Circular connector with moulded cable                                      |                          | Circular connector with moulded cable                                      |                          | Circular connector with moulded cable                                     |                              |
| Conforms to        | IEC 61076-2-101                                                            |                          | IEC 61076-2-101                                                            |                          | IEC 61076-2-101                                                           |                              |
| Construction type  | M12 D-Coded                                                                |                          | M12 D-Coded                                                                |                          | M12 D-Coded                                                               |                              |
| Description        | Circular connector M12 series,D-coded, TOTALLY SHIELDED,with moulded cable |                          | Circular connector M12 series,D-coded, TOTALLY SHIELDED,with moulded cable |                          | Extension M12-M12 connectors,D-coded, TOTALLY SHIELDED,with moulded cable |                              |
| Part number        | <b>D-12FJ4401Z-K6-IS</b>                                                   | <b>D-12FV4401Z-K6-IS</b> | <b>D-12MJ4401Z-K6-IS</b>                                                   | <b>D-12MV4401Z-K6-IS</b> | <b>D-12MJ4401Z12FJ-K6-IS</b>                                              | <b>D-12MV4401Z12FV-K6-IS</b> |
| Housing type       | Straight 180°                                                              | Angled 90°               | Straight 180°                                                              | Angled 90°               | Straight 180°                                                             | Angled 90°                   |
| Cable gland        | Moulded cable                                                              |                          | Moulded cable                                                              |                          | Moulded cable                                                             |                              |
| Contacts type      | Female                                                                     |                          | Male                                                                       |                          | Female-Male                                                               |                              |
| Number of contacts | 4poles                                                                     |                          | 4poles                                                                     |                          | 4poles                                                                    |                              |
| Housing colour     | Black                                                                      |                          | Black                                                                      |                          | Black                                                                     |                              |

#### Technical data

|                           |                                       |  |                                       |  |                                       |  |
|---------------------------|---------------------------------------|--|---------------------------------------|--|---------------------------------------|--|
| Type of termination       | Contacts to crimp wires               |  | Contacts to crimp wires               |  | Contacts to crimp wires               |  |
| Contacts material         | Brass + Gold flash                    |  | Brass + Gold flash                    |  | Brass + Gold flash                    |  |
| Coupling nut type         | Knurl round                           |  | Knurl round                           |  | Knurl round                           |  |
| M12 coupling nut material | Brass + Nickel plated                 |  | Brass + Nickel plated                 |  | Brass + Nickel plated                 |  |
| M12 coupling nut torque   | 0.4 N*m                               |  | 0.4 N*m                               |  | 0.4 N*m                               |  |
| Rated voltage             | 250V AC/DC                            |  | 250V AC/DC                            |  | 250V AC/DC                            |  |
| Rated current             | 4A                                    |  | 4A                                    |  | 4A                                    |  |
| O-ring material           | NBR                                   |  | -                                     |  | NBR (on female connector)             |  |
| Cable type                | PUR CAT.5E UL21576 SHIELDED HIGH FLEX |  | PUR CAT.5E UL21576 SHIELDED HIGH FLEX |  | PUR CAT.5E UL21576 SHIELDED HIGH FLEX |  |
| Cable jacket colour       | Green RAL6018                         |  | Green RAL6018                         |  | Green RAL6018                         |  |
| No. Conductors / Section  | 1x4xAWG22(0.34mm²)                    |  | 1x4xAWG22(0.34mm²)                    |  | 1x4xAWG22(0.34mm²)                    |  |
| Conductor colours         | Yellow; White; Orange; Blue           |  | Yellow; White; Orange; Blue           |  | Yellow; White; Orange; Blue           |  |
| Cable diameter            | ø6.7mm (±0.3)                         |  | ø6.7mm (±0.3)                         |  | ø6.7mm (±0.3)                         |  |
| Cable length              | 1m                                    |  | 1m                                    |  | 1m                                    |  |

#### Packaging

|         |            |            |            |
|---------|------------|------------|------------|
| Qty/Bag | 1 pc / bag | 1 pc / bag | 1 pc / bag |
|---------|------------|------------|------------|

#### Other accessories options

See accessories section

#### Note:

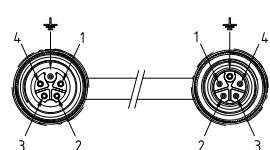
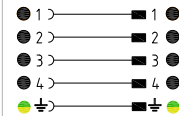
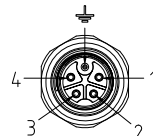
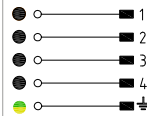
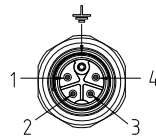
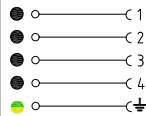
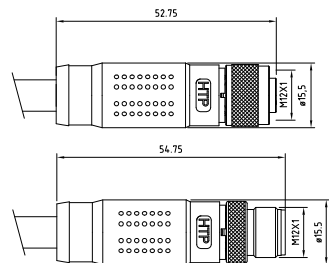
Connectors available with different features:  
See the general features and codification scheme page  
See the cables list section



|                                                                                                                                                       |                                                                               |  |                                                                               |  |                                                                              |  |                          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------|--|------------------------------------------------------------------------------|--|--------------------------|
| <b>Technical drawing</b>                                                                                                                              |                                                                               |  |                                                                               |  |                                                                              |  |                          |
|                                                                                                                                                       |                                                                               |  |                                                                               |  |                                                                              |  |                          |
|                                                                                                                                                       |                                                                               |  |                                                                               |  |                                                                              |  |                          |
| <b>Product description</b>                                                                                                                            |                                                                               |  |                                                                               |  |                                                                              |  |                          |
| Connector type                                                                                                                                        | Circular connector with moulded cable                                         |  | Circular connector with moulded cable                                         |  | Circular connector with moulded cable                                        |  |                          |
| Conforms to                                                                                                                                           | IEC 61076-2-101 / UL approved                                                 |  | IEC 61076-2-101 / UL approved                                                 |  | IEC 61076-2-101 / UL approved                                                |  |                          |
| Construction type                                                                                                                                     | M12 D-Coded                                                                   |  | M12 D-Coded                                                                   |  | M12 D-Coded                                                                  |  |                          |
| Description                                                                                                                                           | Circular connector M12 series,D-coded,UL, TOTALLY SHIELDED,with moulded cable |  | Circular connector M12 series,D-coded,UL, TOTALLY SHIELDED,with moulded cable |  | Extension M12-M12 connectors,D-coded,UL, TOTALLY SHIELDED,with moulded cable |  |                          |
| Part number                                                                                                                                           | <b>D-12FJ4661Z-K6-UL</b>                                                      |  | <b>D-12FV4661Z-K6-UL</b>                                                      |  | <b>D-12MJ4661Z-K6-UL</b>                                                     |  | <b>D-12MV4661Z-K6-UL</b> |
| Housing type                                                                                                                                          | Straight 180°      Angled 90°                                                 |  | Straight 180°      Angled 90°                                                 |  | Straight 180°                                                                |  | Angled 90°               |
| Cable gland                                                                                                                                           | Moulded cable                                                                 |  | Moulded cable                                                                 |  | Moulded cable                                                                |  |                          |
| Contacts type                                                                                                                                         | Female                                                                        |  | Male                                                                          |  | Female-Male                                                                  |  |                          |
| Number of contacts                                                                                                                                    | 4poles                                                                        |  | 4poles                                                                        |  | 4poles                                                                       |  |                          |
| Housing colour                                                                                                                                        | Black                                                                         |  | Black                                                                         |  | Black                                                                        |  |                          |
| <b>Technical data</b>                                                                                                                                 |                                                                               |  |                                                                               |  |                                                                              |  |                          |
| Type of termination                                                                                                                                   | Contacts to crimp wires                                                       |  | Contacts to crimp wires                                                       |  | Contacts to crimp wires                                                      |  |                          |
| Contacts material                                                                                                                                     | Brass+Gold flash                                                              |  | Brass+Gold flash                                                              |  | Brass+Gold flash                                                             |  |                          |
| Coupling nut type                                                                                                                                     | Knurl round                                                                   |  | Knurl round                                                                   |  | Knurl round                                                                  |  |                          |
| M12 coupling nut material                                                                                                                             | Brass+Nickel plated                                                           |  | Brass+Nickel plated                                                           |  | Brass+Nickel plated                                                          |  |                          |
| M12 coupling nut torque                                                                                                                               | 0.4 N*m                                                                       |  | 0.4 N*m                                                                       |  | 0.4 N*m                                                                      |  |                          |
| Rated voltage                                                                                                                                         | 250V AC/DC                                                                    |  | 250V AC/DC                                                                    |  | 250V AC/DC                                                                   |  |                          |
| Rated current                                                                                                                                         | 4A                                                                            |  | 4A                                                                            |  | 4A                                                                           |  |                          |
| O-ring material                                                                                                                                       | NBR                                                                           |  | -                                                                             |  | NBR (on female connector)                                                    |  |                          |
| Cable type                                                                                                                                            | PUR CAT.5E UL21576 SHIELDED HIGH FLEX                                         |  | PUR CAT.5E UL21576 SHIELDED HIGH FLEX                                         |  | PUR CAT.5E UL21576 SHIELDED HIGH FLEX                                        |  |                          |
| Cable jacket colour                                                                                                                                   | Green RAL6016                                                                 |  | Green RAL6016                                                                 |  | Green RAL6016                                                                |  |                          |
| No. Conductors / Section                                                                                                                              | 2x2xAWG24(0.25mm²)                                                            |  | 2x2xAWG24(0.25mm²)                                                            |  | 2x2xAWG24(0.25mm²)                                                           |  |                          |
| Conductor colours                                                                                                                                     | Orange; White/Orange; Blue; White/Blue                                        |  | Orange; White/Orange; Blue; White/Blue                                        |  | Orange; White/Orange; Blue; White/Blue                                       |  |                          |
| Cable diameter                                                                                                                                        | ø6mm (±0.3)                                                                   |  | ø6mm (±0.3)                                                                   |  | ø6mm (±0.3)                                                                  |  |                          |
| Cable lenght                                                                                                                                          | 1m                                                                            |  | 1m                                                                            |  | 1m                                                                           |  |                          |
| <b>Packaging</b>                                                                                                                                      |                                                                               |  |                                                                               |  |                                                                              |  |                          |
| Qty/Bag                                                                                                                                               | 1 pc / bag                                                                    |  | 1 pc / bag                                                                    |  | 1 pc / bag                                                                   |  |                          |
| <b>Other accessories options</b>                                                                                                                      |                                                                               |  |                                                                               |  |                                                                              |  |                          |
| See accessories section                                                                                                                               |                                                                               |  |                                                                               |  |                                                                              |  |                          |
| <b>Note:</b><br>Connectors available with different feautres:<br>See the general features and codification scheme page<br>See the cables list section |                                                                               |  |                                                                               |  |                                                                              |  |                          |



#### Technical drawing



#### Product description

|                    |                                                           |                                                           |                                                          |
|--------------------|-----------------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------|
| Connector type     | Circular connector with moulded cable                     | Circular connector with moulded cable                     | Circular connector with moulded cable                    |
| Conforms to        | IEC 61076-2-111                                           | IEC 61076-2-111                                           | IEC 61076-2-111                                          |
| Construction type  | M12 K-Coded                                               | M12 K-Coded                                               | M12 K-Coded                                              |
| Description        | Circular connector M12 series,K-coded, with moulded cable | Circular connector M12 series,K-coded, with moulded cable | Extension M12-M12 connectors,K-coded, with moulded cable |
| Part number        | <b>K-12FD5461Z</b>                                        | <b>K-12MD5461Z</b>                                        | <b>K-12FD5461Z12MD</b>                                   |
| Housing type       | Straight 180°                                             | Straight 180°                                             | 180°-180°                                                |
| Cable gland        | Moulded cable                                             | Moulded cable                                             | Moulded cable                                            |
| Contacts type      | Female                                                    | Male                                                      | Female-Male                                              |
| Number of contacts | 4poles + P.E.                                             | 4poles + P.E.                                             | 4poles + P.E.                                            |
| Housing colour     | Black                                                     | Black                                                     | Black                                                    |

#### Technical data

|                           |                                       |                                       |                                       |
|---------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| Type of termination       | Contacts to solder wires              | Contacts to solder wires              | Contacts to solder wires              |
| Contacts material         | Brass + Gold flash                    | Brass + Gold flash                    | Brass + Gold flash                    |
| Coupling nut type         | Knurl round                           | Knurl round                           | Knurl round                           |
| M12 coupling nut material | Brass + Nickel plated                 | Brass + Nickel plated                 | Brass + Nickel plated                 |
| M12 coupling nut torque   | 0.4 N*m                               | 0.4 N*m                               | 0.4 N*m                               |
| Rated voltage             | 630V AC                               | 630V AC                               | 630V AC                               |
| Rated current             | 12A                                   | 12A                                   | 12A                                   |
| O-ring material           | NBR                                   | -                                     | NBR (on female connector)             |
| Cable type                | PVC/PVC CEI2022                       | PVC/PVC CEI2022                       | PVC/PVC CEI2022                       |
| Cable jacket colour       | Black                                 | Black                                 | Black                                 |
| No.Conductors / Section   | 5G1.5mm <sup>2</sup>                  | 5G1.5mm <sup>2</sup>                  | 5G1.5mm <sup>2</sup>                  |
| Conductor colours         | Bk 1; Bk 2; Bk 3; Bk 4; Yellow/Green; | Bk 1; Bk 2; Bk 3; Bk 4; Yellow/Green; | Bk 1; Bk 2; Bk 3; Bk 4; Yellow/Green; |
| Cable diameter            | ø10mm (±0.3)                          | ø10mm (±0.3)                          | ø10mm (±0.3)                          |
| Cable length              | 1m                                    | 1m                                    | 1m                                    |

#### Packaging

|         |            |            |            |
|---------|------------|------------|------------|
| Qty/Bag | 1 pc / bag | 1 pc / bag | 1 pc / bag |
|---------|------------|------------|------------|

#### Other accessories options

See accessories section

#### Notes:

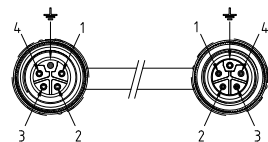
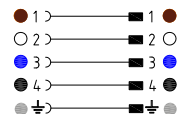
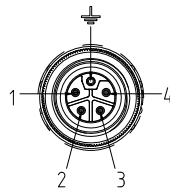
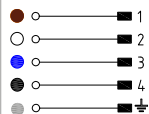
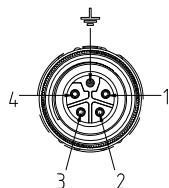
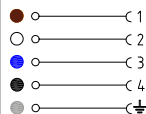
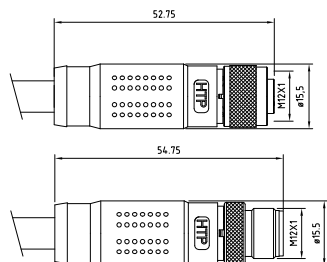
Connectors available with different features:  
See the general features and codification scheme page  
See the cables list section



|                                                                                                                                                         |                                                                            |                                                                            |                                                                           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------------|
| <b>Technical drawing</b>                                                                                                                                |                                                                            |                                                                            |                                                                           |
| <b>Product description</b>                                                                                                                              |                                                                            |                                                                            |                                                                           |
| Connector type                                                                                                                                          | Circular connector with moulded cable                                      | Circular connector with moulded cable                                      | Circular connector with moulded cable                                     |
| Conforms to                                                                                                                                             | IEC 61076-2-111                                                            | IEC 61076-2-111                                                            | IEC 61076-2-111                                                           |
| Construction type                                                                                                                                       | M12 K-Coded                                                                | M12 K-Coded                                                                | M12 K-Coded                                                               |
| Description                                                                                                                                             | Circular connector M12 series,K-coded, TOTALLY SHIELDED with moulded cable | Circular connector M12 series,K-coded, TOTALLY SHIELDED with moulded cable | Extension M12-M12 connectors,K-coded, TOTALLY SHIELDED with moulded cable |
| Part number                                                                                                                                             | <b>K-12FJ5351Z-K6-IS</b>                                                   | <b>K-12MJ5351Z-K6-IS</b>                                                   | <b>K-12FJ5351Z12MJ</b>                                                    |
| Housing type                                                                                                                                            | Straight 180°                                                              | Straight 180°                                                              | 180°-180°                                                                 |
| Cable gland                                                                                                                                             | Moulded cable                                                              | Moulded cable                                                              | Moulded cable                                                             |
| Contacts type                                                                                                                                           | Female                                                                     | Male                                                                       | Female-Male                                                               |
| Number of contacts                                                                                                                                      | 4poles + P.E.                                                              | 4poles + P.E.                                                              | 4poles + P.E.                                                             |
| Housing colour                                                                                                                                          | Black                                                                      | Black                                                                      | Black                                                                     |
| <b>Technical data</b>                                                                                                                                   |                                                                            |                                                                            |                                                                           |
| Type of termination                                                                                                                                     | Contacts to solder wires                                                   | Contacts to solder wires                                                   | Contacts to solder wires                                                  |
| Contacts material                                                                                                                                       | Brass+Gold flash                                                           | Brass+Gold flash                                                           | Brass+Gold flash                                                          |
| Coupling nut type                                                                                                                                       | Knurl round                                                                | Knurl round                                                                | Knurl round                                                               |
| M12 coupling nut material                                                                                                                               | Brass+Nickel plated                                                        | Brass+Nickel plated                                                        | Brass+Nickel plated                                                       |
| M12 coupling nut torque                                                                                                                                 | 0.4 N*m                                                                    | 0.4 N*m                                                                    | 0.4 N*m                                                                   |
| Rated voltage                                                                                                                                           | 630V AC                                                                    | 630V AC                                                                    | 630V AC                                                                   |
| Rated current                                                                                                                                           | 12A                                                                        | 12A                                                                        | 12A                                                                       |
| O-ring material                                                                                                                                         | NBR                                                                        | -                                                                          | NBR (on female connector)                                                 |
| Cable type                                                                                                                                              | PVC/PVC CEI2022 SHIELDED                                                   | PVC/PVC CEI2022 SHIELDED                                                   | PVC/PVC CEI2022 SHIELDED                                                  |
| Cable jacket colour                                                                                                                                     | Black                                                                      | Black                                                                      | Black                                                                     |
| No.Conductors / Section                                                                                                                                 | 5G1.5mm²                                                                   | 5G1.5mm²                                                                   | 5G1.5mm²                                                                  |
| Conductor colours                                                                                                                                       | Bk 1; Bk 2; Bk 3; Bk 4; Yellow/Green;                                      | Bk 1; Bk 2; Bk 3; Bk 4; Yellow/Green;                                      | Bk 1; Bk 2; Bk 3; Bk 4; Yellow/Green;                                     |
| Cable diameter                                                                                                                                          | ø10.4mm (±0.3)                                                             | ø10.4mm (±0.3)                                                             | ø10.4mm (±0.3)                                                            |
| Cable length                                                                                                                                            | 1m                                                                         | 1m                                                                         | 1m                                                                        |
| <b>Packaging</b>                                                                                                                                        |                                                                            |                                                                            |                                                                           |
| Qty/Bag                                                                                                                                                 | 1 pc / bag                                                                 | 1 pc / bag                                                                 | 1 pc / bag                                                                |
| <b>Other accessories options</b>                                                                                                                        |                                                                            |                                                                            |                                                                           |
| See accessories section                                                                                                                                 |                                                                            |                                                                            |                                                                           |
| <b>Notes:</b><br>Connectors available with different feautures:<br>See the general features and codification scheme page<br>See the cables list section |                                                                            |                                                                            |                                                                           |



#### Technical drawing



#### Product description

|                    |                                                           |                                                           |                                                          |
|--------------------|-----------------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------|
| Connector type     | Circular connector with moulded cable                     | Circular connector with moulded cable                     | Circular connector with moulded cable                    |
| Conforms to        | IEC 61076-2-111                                           | IEC 61076-2-111                                           | IEC 61076-2-111                                          |
| Construction type  | M12 L-Coded                                               | M12 L-Coded                                               | M12 L-Coded                                              |
| Description        | Circular connector M12 series,L-coded, with moulded cable | Circular connector M12 series,L-coded, with moulded cable | Extension M12-M12 connectors,L-coded, with moulded cable |
| Part number        | <b>L-12FD5731Z</b>                                        | <b>L-12MD5731Z</b>                                        | <b>L-12FD5731Z12MD</b>                                   |
| Housing type       | Straight 180°                                             | Straight 180°                                             | 180°-180°                                                |
| Cable gland        | Moulded cable                                             | Moulded cable                                             | Moulded cable                                            |
| Contacts type      | Female                                                    | Male                                                      | Female-Male                                              |
| Number of contacts | 4poles + F.E.                                             | 4poles + F.E.                                             | 4poles + F.E.                                            |
| Housing colour     | Black                                                     | Black                                                     | Black                                                    |

#### Technical data

|                           |                                  |                                  |                                  |
|---------------------------|----------------------------------|----------------------------------|----------------------------------|
| Type of termination       | Contacts to solder wires         | Contacts to solder wires         | Contacts to solder wires         |
| Contacts material         | Brass + Gold flash               | Brass + Gold flash               | Brass + Gold flash               |
| Coupling nut type         | Knurl round                      | Knurl round                      | Knurl round                      |
| M12 coupling nut material | Brass + Nickel plated            | Brass + Nickel plated            | Brass + Nickel plated            |
| M12 coupling nut torque   | 0.4 N*m                          | 0.4 N*m                          | 0.4 N*m                          |
| Rated voltage             | 63V DC                           | 63V DC                           | 63V DC                           |
| Rated current             | 16A                              | 16A                              | 16A                              |
| O-ring material           | NBR                              | -                                | NBR (on female connector)        |
| Cable type                | PVC/PVC CEI2022                  | PVC/PVC CEI2022                  | PVC/PVC CEI2022                  |
| Cable jacket colour       | Black                            | Black                            | Black                            |
| No.Conductors / Section   | 5x1.5mm <sup>2</sup>             | 5x1.5mm <sup>2</sup>             | 5x1.5mm <sup>2</sup>             |
| Conductor colours         | Brown; White; Blue; Black; Grey; | Brown; White; Blue; Black; Grey; | Brown; White; Blue; Black; Grey; |
| Cable diameter            | ø10mm (±0.3)                     | ø10mm (±0.3)                     | ø10mm (±0.3)                     |
| Cable length              | 1m                               | 1m                               | 1m                               |

#### Packaging

|         |            |            |            |
|---------|------------|------------|------------|
| Qty/Bag | 1 pc / bag | 1 pc / bag | 1 pc / bag |
|---------|------------|------------|------------|

#### Other accessories options

See accessories section

#### Notes:

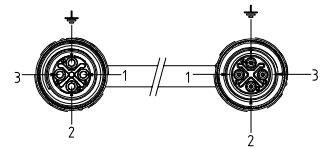
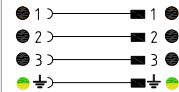
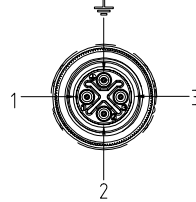
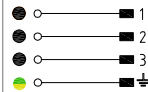
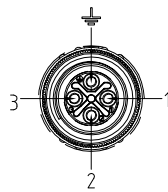
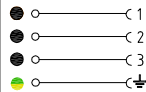
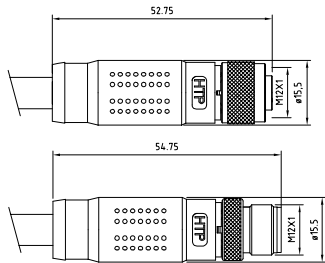
Connectors available with different features:  
See the general features and codification scheme page  
See the cables list section



|                                                                                                                                                        |                                                                            |                                                                            |                                                                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------------|
| <b>Technical drawing</b>                                                                                                                               |                                                                            |                                                                            |                                                                           |
|                                                                                                                                                        |                                                                            |                                                                            |                                                                           |
| <b>Product description</b>                                                                                                                             |                                                                            |                                                                            |                                                                           |
| Connector type                                                                                                                                         | Circular connector with moulded cable                                      | Circular connector with moulded cable                                      | Circular connector with moulded cable                                     |
| Conforms to                                                                                                                                            | IEC 61076-2-111                                                            | IEC 61076-2-111                                                            | IEC 61076-2-111                                                           |
| Construction type                                                                                                                                      | M12 L-Coded                                                                | M12 L-Coded                                                                | M12 L-Coded                                                               |
| Description                                                                                                                                            | Circular connector M12 series,L-coded, TOTALLY SHIELDED with moulded cable | Circular connector M12 series,L-coded, TOTALLY SHIELDED with moulded cable | Extension M12-M12 connectors,L-coded, TOTALLY SHIELDED with moulded cable |
| Part number                                                                                                                                            | <b>L-12FJ5701Z-K6-IS</b>                                                   | <b>L-12MJ5701Z-K6-IS</b>                                                   | <b>L-12FJ5701Z-K6-IS</b>                                                  |
| Housing type                                                                                                                                           | Straight 180°                                                              | Straight 180°                                                              | 180°-180°                                                                 |
| Cable gland                                                                                                                                            | Moulded cable                                                              | Moulded cable                                                              | Moulded cable                                                             |
| Contacts type                                                                                                                                          | Female                                                                     | Male                                                                       | Female-Male                                                               |
| Number of contacts                                                                                                                                     | 4poles + F.E.                                                              | 4poles + F.E.                                                              | 4poles + F.E.                                                             |
| Housing colour                                                                                                                                         | Black                                                                      | Black                                                                      | Black                                                                     |
| <b>Technical data</b>                                                                                                                                  |                                                                            |                                                                            |                                                                           |
| Type of termination                                                                                                                                    | Contacts to solder wires                                                   | Contacts to solder wires                                                   | Contacts to solder wires                                                  |
| Contacts material                                                                                                                                      | Brass+Gold flash                                                           | Brass+Gold flash                                                           | Brass+Gold flash                                                          |
| Coupling nut type                                                                                                                                      | Knurl round                                                                | Knurl round                                                                | Knurl round                                                               |
| M12 coupling nut material                                                                                                                              | Brass+Nickel plated                                                        | Brass+Nickel plated                                                        | Brass+Nickel plated                                                       |
| M12 coupling nut torque                                                                                                                                | 0.4 N*m                                                                    | 0.4 N*m                                                                    | 0.4 N*m                                                                   |
| Rated voltage                                                                                                                                          | 63V DC                                                                     | 63V DC                                                                     | 63V DC                                                                    |
| Rated current                                                                                                                                          | 16A                                                                        | 16A                                                                        | 16A                                                                       |
| O-ring material                                                                                                                                        | NBR                                                                        | -                                                                          | NBR (on female connector)                                                 |
| Cable type                                                                                                                                             | PVC/PVC CEI2022 SHIELDED                                                   | PVC/PVC CEI2022 SHIELDED                                                   | PVC/PVC CEI2022 SHIELDED                                                  |
| Cable jacket colour                                                                                                                                    | Black                                                                      | Black                                                                      | Black                                                                     |
| No.Conductors / Section                                                                                                                                | 5x1.5mm <sup>2</sup>                                                       | 5x1.5mm <sup>2</sup>                                                       | 5x1.5mm <sup>2</sup>                                                      |
| Conductor colours                                                                                                                                      | Brown; White; Blue; Black; Grey;                                           | Brown; White; Blue; Black; Grey;                                           | Brown; White; Blue; Black; Grey;                                          |
| Cable diameter                                                                                                                                         | ø10.4mm (±0.3)                                                             | ø10.4mm (±0.3)                                                             | ø10.4mm (±0.3)                                                            |
| Cable length                                                                                                                                           | 1m                                                                         | 1m                                                                         | 1m                                                                        |
| <b>Packaging</b>                                                                                                                                       |                                                                            |                                                                            |                                                                           |
| Qty/Bag                                                                                                                                                | 1 pc / bag                                                                 | 1 pc / bag                                                                 | 1 pc / bag                                                                |
| <b>Other accessories options</b>                                                                                                                       |                                                                            |                                                                            |                                                                           |
| See accessories section                                                                                                                                |                                                                            |                                                                            |                                                                           |
| <b>Notes:</b><br>Connectors available with different feautres:<br>See the general features and codification scheme page<br>See the cables list section |                                                                            |                                                                            |                                                                           |



#### Technical drawing



#### Product description

|                    |                                                           |                                                           |                                                          |
|--------------------|-----------------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------|
| Connector type     | Circular connector with moulded cable                     | Circular connector with moulded cable                     | Circular connector with moulded cable                    |
| Conforms to        | IEC 61076-2-111                                           | IEC 61076-2-111                                           | IEC 61076-2-111                                          |
| Construction type  | M12 S-Coded                                               | M12 S-Coded                                               | M12 S-Coded                                              |
| Description        | Circular connector M12 series,S-coded, with moulded cable | Circular connector M12 series,S-coded, with moulded cable | Extension M12-M12 connectors,S-coded, with moulded cable |
| Part number        | <b>S-12FD4461Z</b>                                        | <b>S-12MD4461Z</b>                                        | <b>S-12FD4461Z12MD</b>                                   |
| Housing type       | Straight 180°                                             | Straight 180°                                             | 180°-180°                                                |
| Cable gland        | Moulded cable                                             | Moulded cable                                             | Moulded cable                                            |
| Contacts type      | Female                                                    | Male                                                      | Female-Male                                              |
| Number of contacts | 3poles + P.E.                                             | 3poles + P.E.                                             | 3poles + P.E.                                            |
| Housing colour     | Black                                                     | Black                                                     | Black                                                    |

#### Technical data

|                           |                                          |                                          |                                          |
|---------------------------|------------------------------------------|------------------------------------------|------------------------------------------|
| Type of termination       | Contacts to crimp wires                  | Contacts to crimp wires                  | Contacts to crimp wires                  |
| Contacts material         | Brass + Gold flash                       | Brass + Gold flash                       | Brass + Gold flash                       |
| Coupling nut type         | Knurl round                              | Knurl round                              | Knurl round                              |
| M12 coupling nut material | Brass + Nickel plated                    | Brass + Nickel plated                    | Brass + Nickel plated                    |
| M12 coupling nut torque   | 0.4 N*m                                  | 0.4 N*m                                  | 0.4 N*m                                  |
| Rated voltage             | 630V AC                                  | 630V AC                                  | 630V AC                                  |
| Rated current             | 12A                                      | 12A                                      | 12A                                      |
| O-ring material           | NBR                                      | -                                        | NBR (on female connector)                |
| Cable type                | PVC/PVC CEI2022                          | PVC/PVC CEI2022                          | PVC/PVC CEI2022                          |
| Cable jacket colour       | Black                                    | Black                                    | Black                                    |
| No. Conductors / Section  | 4G1.5mm <sup>2</sup>                     | 4G1.5mm <sup>2</sup>                     | 4G1.5mm <sup>2</sup>                     |
| Conductor colours         | Black 1; Black 2; Black 3; Yellow/Green; | Black 1; Black 2; Black 3; Yellow/Green; | Black 1; Black 2; Black 3; Yellow/Green; |
| Cable diameter            | ø10mm (±0.3)                             | ø10mm (±0.3)                             | ø10mm (±0.3)                             |
| Cable length              | 1m                                       | 1m                                       | 1m                                       |

#### Packaging

|         |            |            |            |
|---------|------------|------------|------------|
| Qty/Bag | 1 pc / bag | 1 pc / bag | 1 pc / bag |
|---------|------------|------------|------------|

#### Other accessories options

See accessories section

#### Notes:

Connectors available with different features:  
See the general features and codification scheme page  
See the cables list section



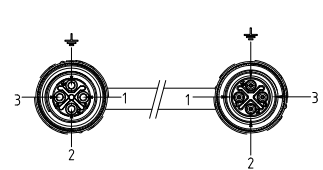
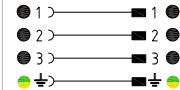
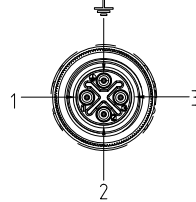
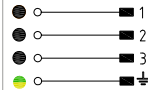
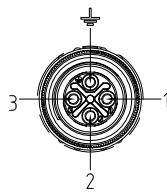
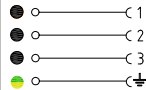
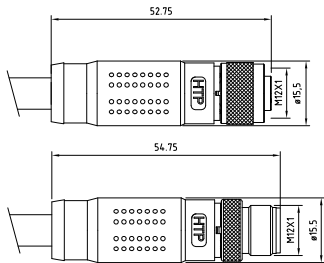


|                                                                                                                                                        |                                                                            |                                                                            |                                                                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------------|
| <b>Technical drawing</b>                                                                                                                               |                                                                            |                                                                            |                                                                           |
|                                                                                                                                                        |                                                                            |                                                                            |                                                                           |
|                                                                                                                                                        |                                                                            |                                                                            |                                                                           |
|                                                                                                                                                        |                                                                            |                                                                            |                                                                           |
| <b>Product description</b>                                                                                                                             |                                                                            |                                                                            |                                                                           |
| Connector type                                                                                                                                         | Circular connector with moulded cable                                      | Circular connector with moulded cable                                      | Circular connector with moulded cable                                     |
| Conforms to                                                                                                                                            | IEC 61076-2-111                                                            | IEC 61076-2-111                                                            | IEC 61076-2-111                                                           |
| Construction type                                                                                                                                      | M12 S-Coded                                                                | M12 S-Coded                                                                | M12 S-Coded                                                               |
| Description                                                                                                                                            | Circular connector M12 series,S-coded, TOTALLY SHIELDED with moulded cable | Circular connector M12 series,S-coded, TOTALLY SHIELDED with moulded cable | Extension M12-M12 connectors,S-coded, TOTALLY SHIELDED with moulded cable |
| Part number                                                                                                                                            | <b>S-12FJ4351Z</b>                                                         | <b>S-12MJ4351Z</b>                                                         | <b>S-12FJ4351Z12MJ</b>                                                    |
| Housing type                                                                                                                                           | Straight 180°                                                              | Straight 180°                                                              | 180°-180°                                                                 |
| Cable gland                                                                                                                                            | Moulded cable                                                              | Moulded cable                                                              | Moulded cable                                                             |
| Contacts type                                                                                                                                          | Female                                                                     | Male                                                                       | Female-Male                                                               |
| Number of contacts                                                                                                                                     | 3poles + P.E.                                                              | 3poles + P.E.                                                              | 3poles + P.E.                                                             |
| Housing colour                                                                                                                                         | Black                                                                      | Black                                                                      | Black                                                                     |
| <b>Technical data</b>                                                                                                                                  |                                                                            |                                                                            |                                                                           |
| Type of termination                                                                                                                                    | Contacts to crimp wires                                                    | Contacts to crimp wires                                                    | Contacts to crimp wires                                                   |
| Contacts material                                                                                                                                      | Brass + Gold flash                                                         | Brass + Gold flash                                                         | Brass + Gold flash                                                        |
| Coupling nut type                                                                                                                                      | Knurl round                                                                | Knurl round                                                                | Knurl round                                                               |
| M12 coupling nut material                                                                                                                              | Brass + Nickel plated                                                      | Brass + Nickel plated                                                      | Brass + Nickel plated                                                     |
| M12 coupling nut torque                                                                                                                                | 0.4 N*m                                                                    | 0.4 N*m                                                                    | 0.4 N*m                                                                   |
| Rated voltage                                                                                                                                          | 630V AC                                                                    | 630V AC                                                                    | 630V AC                                                                   |
| Rated current                                                                                                                                          | 12A                                                                        | 12A                                                                        | 12A                                                                       |
| O-ring material                                                                                                                                        | NBR                                                                        | -                                                                          | NBR (on female connector)                                                 |
| Cable type                                                                                                                                             | PVC/PVC CEI2022 SHIELDED                                                   | PVC/PVC CEI2022 SHIELDED                                                   | PVC/PVC CEI2022 SHIELDED                                                  |
| Cable jacket colour                                                                                                                                    | Black                                                                      | Black                                                                      | Black                                                                     |
| No.Conductors / Section                                                                                                                                | 4G1.5mm²                                                                   | 4G1.5mm²                                                                   | 4G1.5mm²                                                                  |
| Conductor colours                                                                                                                                      | Black 1; Black 2; Black 3; Yellow/Green;                                   | Black 1; Black 2; Black 3; Yellow/Green;                                   | Black 1; Black 2; Black 3; Yellow/Green;                                  |
| Cable diameter                                                                                                                                         | ø10mm (±0.3)                                                               | ø10mm (±0.3)                                                               | ø10mm (±0.3)                                                              |
| Cable length                                                                                                                                           | 1m                                                                         | 1m                                                                         | 1m                                                                        |
| <b>Packaging</b>                                                                                                                                       |                                                                            |                                                                            |                                                                           |
| Qty/Bag                                                                                                                                                | 1 pc / bag                                                                 | 1 pc / bag                                                                 | 1 pc / bag                                                                |
| <b>Other accessories options</b>                                                                                                                       |                                                                            |                                                                            |                                                                           |
| See accessories section                                                                                                                                |                                                                            |                                                                            |                                                                           |
| <b>Notes:</b><br>Connectors available with different feautres:<br>See the general features and codification scheme page<br>See the cables list section |                                                                            |                                                                            |                                                                           |





#### Technical drawing



#### Product description

|                    |                                                                         |                                                                         |                                                                        |
|--------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|------------------------------------------------------------------------|
| Connector type     | Circular connector with moulded cable                                   | Circular connector with moulded cable                                   | Circular connector with moulded cable                                  |
| Conforms to        | IEC 61076-2-111 / UL approved                                           | IEC 61076-2-111 / UL approved                                           | IEC 61076-2-111 / UL approved                                          |
| Construction type  | M12 S-Coded                                                             | M12 S-Coded                                                             | M12 S-Coded                                                            |
| Description        | Circular connector M12 series, S-coded, UL approved, with moulded cable | Circular connector M12 series, S-coded, UL approved, with moulded cable | Extension M12-M12 connectors, S-coded, UL approved, with moulded cable |
| Part number        | <b>S-12FD4811Z-K6-UL</b>                                                | <b>S-12MD4811Z-K6-UL</b>                                                | <b>S-12FD4811Z12MD-UL</b>                                              |
| Housing type       | Straight 180°                                                           | Straight 180°                                                           | 180°-180°                                                              |
| Cable gland        | Moulded cable                                                           | Moulded cable                                                           | Moulded cable                                                          |
| Contacts type      | Female                                                                  | Male                                                                    | Female-Male                                                            |
| Number of contacts | 3poles + P.E.                                                           | 3poles + P.E.                                                           | 3poles + P.E.                                                          |
| Housing colour     | Black                                                                   | Black                                                                   | Black                                                                  |

#### Technical data

|                           |                                          |                                          |                                          |
|---------------------------|------------------------------------------|------------------------------------------|------------------------------------------|
| Type of termination       | Contacts to crimp wires                  | Contacts to crimp wires                  | Contacts to crimp wires                  |
| Contacts material         | Brass + Gold flash                       | Brass + Gold flash                       | Brass + Gold flash                       |
| Coupling nut type         | Knurl round                              | Knurl round                              | Knurl round                              |
| M12 coupling nut material | Brass + Nickel plated                    | Brass + Nickel plated                    | Brass + Nickel plated                    |
| M12 coupling nut torque   | 0.4 N*m                                  | 0.4 N*m                                  | 0.4 N*m                                  |
| Rated voltage             | 630V AC                                  | 630V AC                                  | 630V AC                                  |
| Rated current             | 12A                                      | 12A                                      | 12A                                      |
| O-ring material           | NBR                                      | -                                        | NBR (on female connector)                |
| Cable type                | PVC/PVC ULstyle 20234 SHIELDED high flex | PVC/PVC ULstyle 20234 SHIELDED high flex | PVC/PVC ULstyle 20234 SHIELDED high flex |
| Cable jacket colour       | Orange RAL2003                           | Orange RAL2003                           | Orange RAL2003                           |
| No. Conductors / Section  | 4GAWG16                                  | 4GAWG16                                  | 4GAWG16                                  |
| Conductor colours         | Black 1; Black 2; Black 3; Yellow/Green; | Black 1; Black 2; Black 3; Yellow/Green; | Black 1; Black 2; Black 3; Yellow/Green; |
| Cable diameter            | ø8,6mm (±0.3)                            | ø8,6mm (±0.3)                            | ø8,6mm (±0.3)                            |
| Cable length              | 1m                                       | 1m                                       | 1m                                       |

#### Packaging

|         |            |            |            |
|---------|------------|------------|------------|
| Qty/Bag | 1 pc / bag | 1 pc / bag | 1 pc / bag |
|---------|------------|------------|------------|

#### Other accessories options

See accessories section

#### Notes:

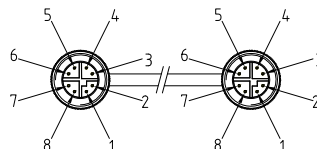
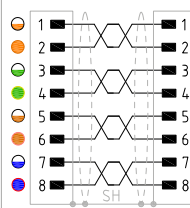
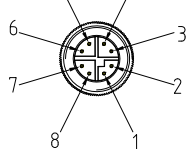
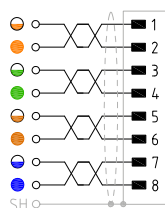
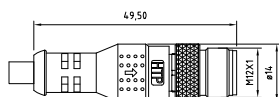
Connectors available with different features:  
See the general features and codification scheme page  
See the cables list section



|                                                                                                                                                        |                                                                               |                                                                               |                                                                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| <b>Technical drawing</b>                                                                                                                               |                                                                               |                                                                               |                                                                              |
|                                                                                                                                                        |                                                                               |                                                                               |                                                                              |
| <b>Product description</b>                                                                                                                             |                                                                               |                                                                               |                                                                              |
| Connector type                                                                                                                                         | Circular connector with moulded cable                                         | Circular connector with moulded cable                                         | Circular connector with moulded cable                                        |
| Conforms to                                                                                                                                            | IEC 61076-2-111 / UL approved                                                 | IEC 61076-2-111 / UL approved                                                 | IEC 61076-2-111 / UL approved                                                |
| Construction type                                                                                                                                      | M12 S-Coded                                                                   | M12 S-Coded                                                                   | M12 S-Coded                                                                  |
| Description                                                                                                                                            | Circular connector M12 series,S-coded,UL, TOTALLY SHIELDED with moulded cable | Circular connector M12 series,S-coded,UL, TOTALLY SHIELDED with moulded cable | Extension M12-M12 connectors,S-coded,UL, TOTALLY SHIELDED with moulded cable |
| Part number                                                                                                                                            | <b>S-12FJ4811Z-K6-UL</b>                                                      | <b>S-12MJ4811Z-K6-UL</b>                                                      | <b>S-12FJ4811Z12MD-UL</b>                                                    |
| Housing type                                                                                                                                           | Straight 180°                                                                 | Straight 180°                                                                 | 180°-180°                                                                    |
| Cable gland                                                                                                                                            | Moulded cable                                                                 | Moulded cable                                                                 | Moulded cable                                                                |
| Contacts type                                                                                                                                          | Female                                                                        | Male                                                                          | Female-Male                                                                  |
| Number of contacts                                                                                                                                     | 3poles + P.E.                                                                 | 3poles + P.E.                                                                 | 3poles + P.E.                                                                |
| Housing colour                                                                                                                                         | Black                                                                         | Black                                                                         | Black                                                                        |
| <b>Technical data</b>                                                                                                                                  |                                                                               |                                                                               |                                                                              |
| Type of termination                                                                                                                                    | Contacts to crimp wires                                                       | Contacts to crimp wires                                                       | Contacts to crimp wires                                                      |
| Contacts material                                                                                                                                      | Brass+Gold flash                                                              | Brass+Gold flash                                                              | Brass+Gold flash                                                             |
| Coupling nut type                                                                                                                                      | Knurl round                                                                   | Knurl round                                                                   | Knurl round                                                                  |
| M12 coupling nut material                                                                                                                              | Brass+Nickel plated                                                           | Brass+Nickel plated                                                           | Brass+Nickel plated                                                          |
| M12 coupling nut torque                                                                                                                                | 0.4 N*m                                                                       | 0.4 N*m                                                                       | 0.4 N*m                                                                      |
| Rated voltage                                                                                                                                          | 630V AC                                                                       | 630V AC                                                                       | 630V AC                                                                      |
| Rated current                                                                                                                                          | 12A                                                                           | 12A                                                                           | 12A                                                                          |
| O-ring material                                                                                                                                        | NBR                                                                           | -                                                                             | NBR (on female connector)                                                    |
| Cable type                                                                                                                                             | PVC/PVC ULstyle 20234 SHIELDED                                                | PVC/PVC ULstyle 20234 SHIELDED                                                | PVC/PVC ULstyle 20234 SHIELDED                                               |
| Cable jacket colour                                                                                                                                    | Orange RAL2003                                                                | Orange RAL2003                                                                | Orange RAL2003                                                               |
| No.Conductors / Section                                                                                                                                | 4G1.5mm <sup>2</sup>                                                          | 4G1.5mm <sup>2</sup>                                                          | 4G1.5mm <sup>2</sup>                                                         |
| Conductor colours                                                                                                                                      | Black 1; Black 2; Black 3; Yellow/Green;                                      | Black 1; Black 2; Black 3; Yellow/Green;                                      | Black 1; Black 2; Black 3; Yellow/Green;                                     |
| Cable diameter                                                                                                                                         | ø8.6mm (±0.3)                                                                 | ø8.6mm (±0.3)                                                                 | ø8.6mm (±0.3)                                                                |
| Cable length                                                                                                                                           | 1m                                                                            | 1m                                                                            | 1m                                                                           |
| <b>Packaging</b>                                                                                                                                       |                                                                               |                                                                               |                                                                              |
| Qty/Bag                                                                                                                                                | 1 pc / bag                                                                    | 1 pc / bag                                                                    | 1 pc / bag                                                                   |
| <b>Other accessories options</b>                                                                                                                       |                                                                               |                                                                               |                                                                              |
| See accessories section                                                                                                                                |                                                                               |                                                                               |                                                                              |
| <b>Notes:</b><br>Connectors available with different feautres:<br>See the general features and codification scheme page<br>See the cables list section |                                                                               |                                                                               |                                                                              |



#### Technical drawing



#### Product description

|                    |                                                                            |                                                                           |  |
|--------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------------|--|
| Connector type     | Circular connector with moulded cable                                      | Circular connector with moulded cable                                     |  |
| Conforms to        | IEC 61076-2-101                                                            | IEC 61076-2-101                                                           |  |
| Construction type  | M12 X-Coded                                                                | M12 X-Coded                                                               |  |
| Description        | Circular connector M12 series,X-coded, TOTALLY SHIELDED with moulded cable | Extension M12-M12 connectors,X-coded, TOTALLY SHIELDED with moulded cable |  |
| Part number        | <b>X-12MJ8711Z-K6-IS</b>                                                   | <b>X-12MJ871Z12MJ-K6-IS</b>                                               |  |
| Housing type       | Straight 180°                                                              | 180°-180°                                                                 |  |
| Cable gland        | Moulded cable                                                              | Moulded cable                                                             |  |
| Contacts type      | Male                                                                       | Male-Male                                                                 |  |
| Number of contacts | 8poles                                                                     | 8poles                                                                    |  |
| Housing colour     | Black                                                                      | Black                                                                     |  |

#### Technical data

|                           |                                         |                                         |  |
|---------------------------|-----------------------------------------|-----------------------------------------|--|
| Type of termination       | Contacts to crimp wires                 | Contacts to crimp wires                 |  |
| Contacts material         | Brass + Gold flash                      | Brass + Gold flash                      |  |
| Coupling nut type         | Knurl round                             | Knurl round                             |  |
| M12 coupling nut material | Brass + Nickel plated                   | Brass + Nickel plated                   |  |
| M12 coupling nut torque   | 0.4 N*m                                 | 0.4 N*m                                 |  |
| Rated voltage             | 48V AC/DC                               | 48V AC/DC                               |  |
| Rated current             | 0.5A                                    | 0.5A                                    |  |
| O-ring material           | -                                       | -                                       |  |
| Cable type                | PUR/TPO ULStyle20236 high flex SHIELDED | PUR/TPO ULStyle20236 high flex SHIELDED |  |
| Cable jacket colour       | Green RAL6016                           | Green RAL6016                           |  |
| No.Conductors / Section   | 4x2xAWG26(0.14mm²)                      | 4x2xAWG26(0.14mm²)                      |  |
| Conductor colours         | Wh/Or;Or;Wh/Gn;Gn;Wh/Bn;Bn;Wh/Bu;Bu     | Wh/Or;Or;Wh/Gn;Gn;Wh/Bn;Bn;Wh/Bu;Bu     |  |
| Cable diameter            | ø7.2mm (±0.3)                           | ø7.2mm (±0.3)                           |  |
| Cable length              | 1m                                      | 1m                                      |  |

#### Packaging

|         |            |            |  |
|---------|------------|------------|--|
| Qty/Bag | 1 pc / bag | 1 pc / bag |  |
|---------|------------|------------|--|

#### Other accessories options

See accessories section

#### Notes:

Connectors available with different features:  
See the general features and codification scheme page  
See the cables list section

### Notes:

This image shows a full page of blank white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page, providing a template for writing or drawing. There are no margins, text, or other markings present.

• **GENERAL FEATURES PANEL MOUNT CONNECTORS:**

**Conductor cross section :**  
0.14(26AWG)...0.50mm²(20AWG).

**Fixing system :**  
M12 coupling nut.

**Max. screw torque IEC60947-1**  
M12 coupling nut torque 0.4N\*m.

**Type of terminations :**  
Solder wires.  
Solder PCB.

**Contact material and treatment :**  
Brass + Gold flash.

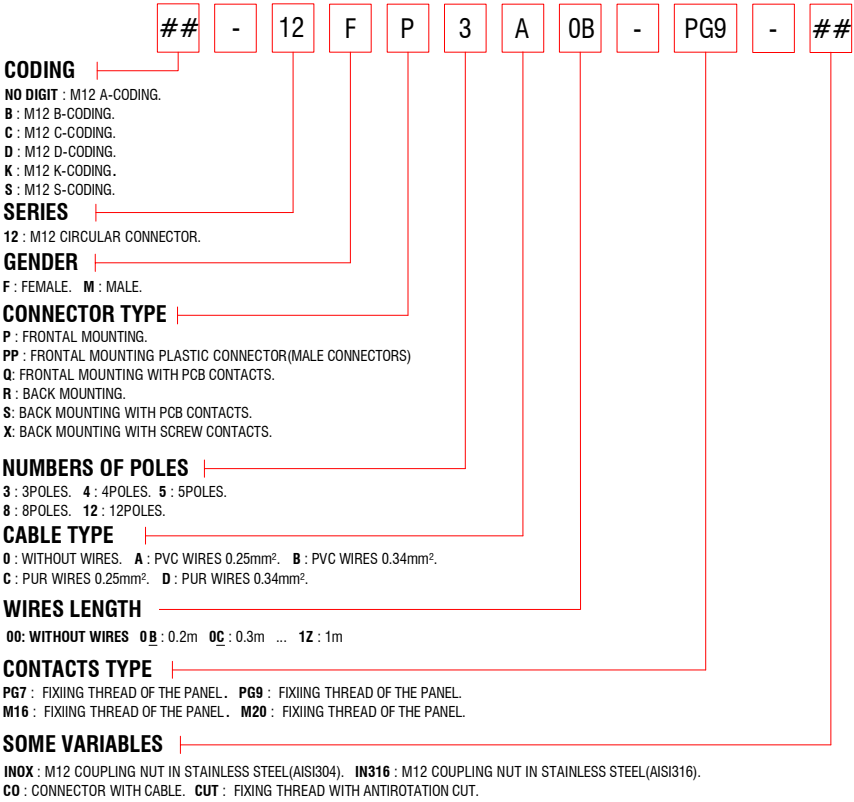
**Housing material :**  
Brass+Nickel plated  
PA66 (upon request).  
Stainless Steel AISI304  
(upon request).  
Stainless Steel AISI316  
(upon request).

**Internal core material :**  
PA66.

**Flammability resistance :**  
UL94-V2 - Standard.

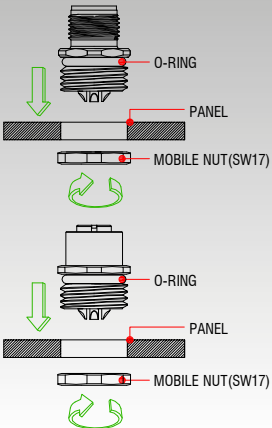
**Protection class :**  
IP 67 (assembled).

**Operating temperature :**  
-25°C + 90°C



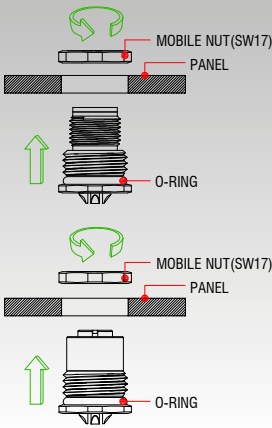
**FRONT MOUNTING:**

The type of mounting of the panel connector into the panel is defined with reference to the way the connector is mounted into the panel. In front mounting the mobile nut is in the back side towards the panel.



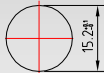
**BACK MOUNTING:**

The type of mounting of the panel connector into the panel is defined with reference to the way the connector is mounted into the panel. In back mounting the mobile nut is in the front side towards the panel.

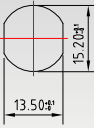


**PANEL FEATURES:**

Suitable for standard connector.



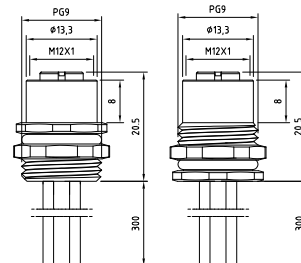
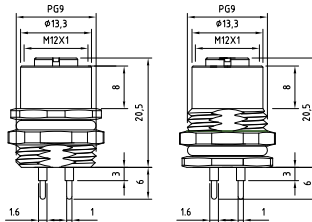
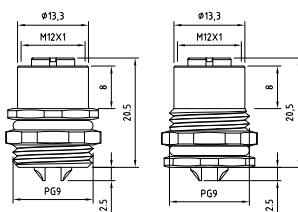
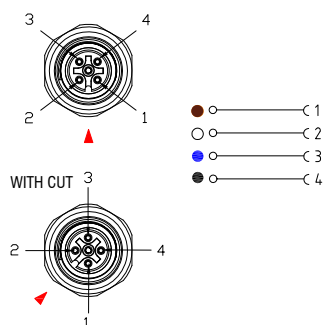
Suitable for connector with cut on the fixed thread.





### Technical drawing

STD.



### Product description

|                    |                                           |                     |                                                                                     |                         |                                                                       |                     |
|--------------------|-------------------------------------------|---------------------|-------------------------------------------------------------------------------------|-------------------------|-----------------------------------------------------------------------|---------------------|
| Connector type     | Circular connector panel mount            |                     | Circular connector panel mount                                                      |                         | Circular connector panel mount                                        |                     |
| Conforms to        | IEC 61076-2-101                           |                     | IEC 61076-2-101                                                                     |                         | IEC 61076-2-101                                                       |                     |
| Construction type  | M12 A-Coded                               |                     | M12 A -Coded                                                                        |                         | M12 A -Coded                                                          |                     |
| Description        | Circular connector M12 series,panel mount |                     | Circular connector M12 series to panel mount with contacts suitable for solder PCB. |                         | Circular connector M12 series to panel mount with PVC soldered wires. |                     |
| Part number        | <b>12FP4000-PG9</b>                       | <b>12FR4000-PG9</b> | <b>12FQ4000-PG9-CUT</b>                                                             | <b>12FS4000-PG9-CUT</b> | <b>12FP4A0C-PG9</b>                                                   | <b>12FR4A0C-PG9</b> |
| Housing type       | Frontal panel side                        | Back panel side     | Frontal panel side                                                                  | Back panel side         | Frontal panel side                                                    | Back panel side     |
| Contacts type      | Female                                    |                     | Female                                                                              |                         | Female                                                                |                     |
| Number of contacts | 4poles                                    |                     | 4poles                                                                              |                         | 4poles                                                                |                     |
| Fixing thread      | PG9                                       |                     | PG9 + CUT                                                                           |                         | PG9                                                                   |                     |
| Cut size           | -                                         |                     | 13.3mm                                                                              |                         | -                                                                     |                     |

### Technical data

|                         |                              |  |                                  |  |                              |  |
|-------------------------|------------------------------|--|----------------------------------|--|------------------------------|--|
| Type of termination     | Contacts to solder wires     |  | Contacts suitable for solder PCB |  | Contacts to solder wires     |  |
| Contacts material       | Brass + Gold flash           |  | Brass + Gold flash               |  | Brass + Gold flash           |  |
| Housing material        | Brass + Nickel plated        |  | Brass + Nickel plated            |  | Brass + Nickel plated        |  |
| Mobile nut material     | Brass + Nickel plated (SW17) |  | Brass + Nickel plated (SW17)     |  | Brass + Nickel plated (SW17) |  |
| M12 coupling nut torque | 0.4 N*m                      |  | 0.4 N*m                          |  | 0.4 N*m                      |  |
| Rated voltage           | 250V AC / DC                 |  | 250V AC / DC                     |  | 250V AC / DC                 |  |
| Rated current           | 4A                           |  | 4A                               |  | 4A                           |  |
| O-ring material         | NBR                          |  | NBR                              |  | NBR                          |  |
| Cable type              | -                            |  | -                                |  | PVC                          |  |
| No.Conductors / Section | -                            |  | -                                |  | 4 x 0.25mm <sup>2</sup>      |  |
| Conductor colours       | -                            |  | -                                |  | Brown; White; Blue; Black    |  |
| Cable diameter          | -                            |  | -                                |  | -                            |  |
| Cable length            | -                            |  | -                                |  | 0.3m                         |  |

### Packaging

|         |             |             |             |
|---------|-------------|-------------|-------------|
| Qty/Bag | Not defined | Not defined | Not defined |
|---------|-------------|-------------|-------------|

### Other accessories options

See accessories section

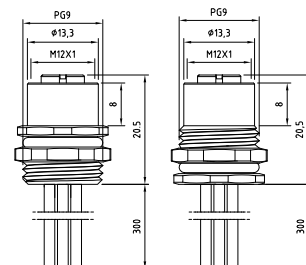
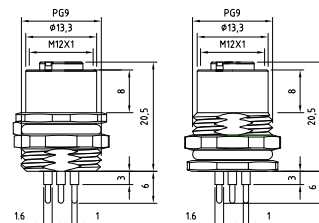
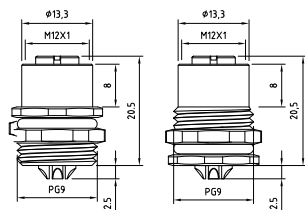
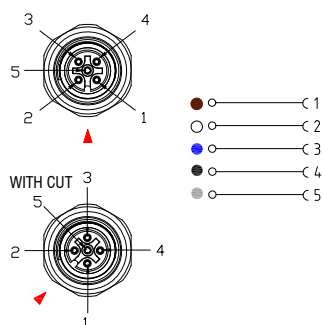
### Notes:

Connectors available with different feautres:  
See the general features and codification scheme page  
See the cables list section



### Technical drawing

STD.



### Product description

|                    |                                           |                     |                                                                                   |                         |                                                                     |                     |
|--------------------|-------------------------------------------|---------------------|-----------------------------------------------------------------------------------|-------------------------|---------------------------------------------------------------------|---------------------|
| Connector type     | Circular connector panel mount            |                     | Circular connector panel mount                                                    |                         | Circular connector panel mount                                      |                     |
| Conforms to        | IEC 61076-2-101                           |                     | IEC 61076-2-101                                                                   |                         | IEC 61076-2-101                                                     |                     |
| Construction type  | M12 A-Coded                               |                     | M12 A-Coded                                                                       |                         | M12 A-Coded                                                         |                     |
| Description        | Circular connector M12 series,panel mount |                     | Circular connector M12 series,panel mount, with contacts suitable for solder PCB. |                         | Circular connector M12 series,panel mount, with PVC soldered wires. |                     |
| Part number        | <b>12FP5000-PG9</b>                       | <b>12FR5000-PG9</b> | <b>12FQ5000-PG9-CUT</b>                                                           | <b>12FS5000-PG9-CUT</b> | <b>12FP5A0C-PG9</b>                                                 | <b>12FR5A0C-PG9</b> |
| Housing type       | Frontal panel side                        | Back panel side     | Frontal panel side                                                                | Back panel side         | Frontal panel side                                                  | Back panel side     |
| Contacts type      | Female                                    |                     | Female                                                                            |                         | Female                                                              |                     |
| Number of contacts | 5poles                                    |                     | 5poles                                                                            |                         | 5poles                                                              |                     |
| Fixing thread      | PG9                                       |                     | PG9 + CUT                                                                         |                         | PG9                                                                 |                     |
| Cut size           | -                                         |                     | 13.3mm                                                                            |                         | -                                                                   |                     |

### Technical data

|                         |                              |  |                                  |  |                                |  |
|-------------------------|------------------------------|--|----------------------------------|--|--------------------------------|--|
| Type of termination     | Contacts to solder wires     |  | Contacts suitable for solder PCB |  | Contacts to solder wires       |  |
| Contacts material       | Brass + Gold flash           |  | Brass + Gold flash               |  | Brass + Gold flash             |  |
| Coupling nut type       | Brass + Nickel plated        |  | Brass + Nickel plated            |  | Brass + Nickel plated          |  |
| Housing material        | Brass + Nickel plated (SW17) |  | Brass + Nickel plated (SW17)     |  | Brass + Nickel plated (SW17)   |  |
| Mobile nut material     | 0.4 N*m                      |  | 0.4 N*m                          |  | 0.4 N*m                        |  |
| Rated voltage           | 60V AC / DC                  |  | 60V AC / DC                      |  | 60V AC / DC                    |  |
| Rated current           | 4A                           |  | 4A                               |  | 4A                             |  |
| O-ring material         | NBR                          |  | NBR                              |  | NBR                            |  |
| Cable type              | -                            |  | -                                |  | PVC                            |  |
| No.Conductors / Section | -                            |  | -                                |  | 5 x 0.25mm <sup>2</sup>        |  |
| Conductor colours       | -                            |  | -                                |  | Brown; White; Blue; Black;Grey |  |
| Cable diameter          | -                            |  | -                                |  | -                              |  |
| Cable length            | -                            |  | -                                |  | 0.3m                           |  |

### Packaging

|         |             |             |             |
|---------|-------------|-------------|-------------|
| Qty/Bag | Not defined | Not defined | Not defined |
|---------|-------------|-------------|-------------|

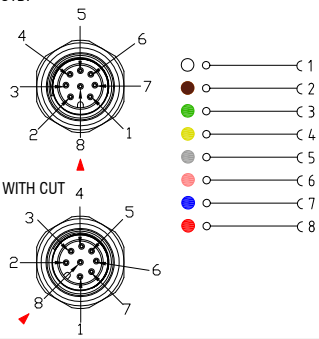
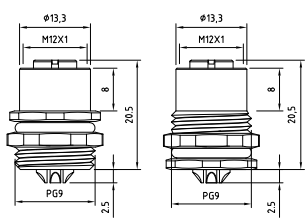
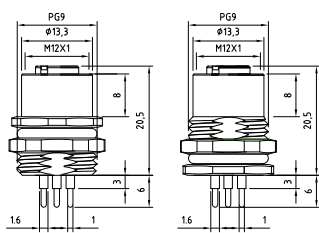
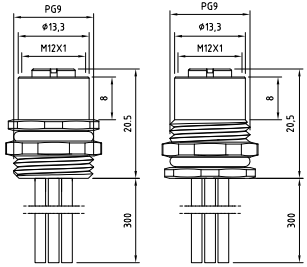
### Other accessories options

See accessories section

### Notes:

Connectors available with different features:  
See the general features and codification scheme page  
See the cables list section

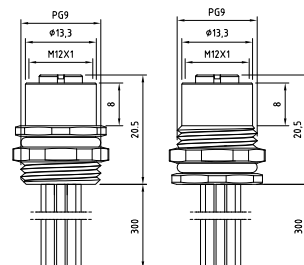
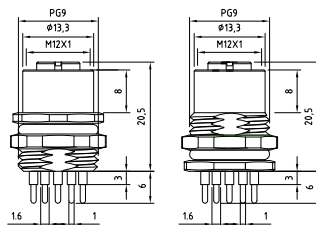
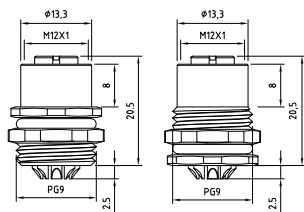
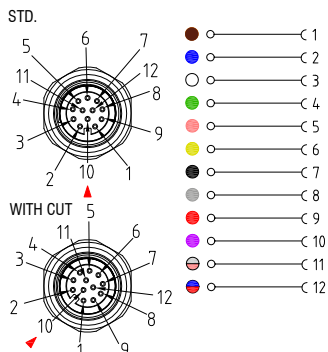


|                                                                                                                                                        |  |                                                                                   |                     |                                                                                     |                         |                                                                                     |                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------|---------------------|-------------------------------------------------------------------------------------|-------------------------|-------------------------------------------------------------------------------------|---------------------|
| <b>Technical drawing</b>                                                                                                                               |  |                                                                                   |                     |                                                                                     |                         |                                                                                     |                     |
| STD.<br>                                                              |  |  |                     |   |                         |  |                     |
| <b>Product description</b>                                                                                                                             |  |                                                                                   |                     |                                                                                     |                         |                                                                                     |                     |
| Connector type                                                                                                                                         |  | Circular connector panel mount                                                    |                     | Circular connector panel mount                                                      |                         | Circular connector panel mount                                                      |                     |
| Conforms to                                                                                                                                            |  | IEC 61076-2-101                                                                   |                     | IEC 61076-2-101                                                                     |                         | IEC 61076-2-101                                                                     |                     |
| Construction type                                                                                                                                      |  | M12 A-Coded                                                                       |                     | M12 A-Coded                                                                         |                         | M12 A-Coded                                                                         |                     |
| Description                                                                                                                                            |  | Circular connector M12 series,panel mount                                         |                     | Circular connector M12 series to panel mount with contacts suitable for solder PCB. |                         | Circular connector M12 series,panel mount with PVC soldered wires.                  |                     |
| Part number                                                                                                                                            |  | <b>12FP8000-PG9</b>                                                               | <b>12FR8000-PG9</b> | <b>12FQ8000-PG9-CUT</b>                                                             | <b>12FS8000-PG9-CUT</b> | <b>12FP8A0C-PG9</b>                                                                 | <b>12FR8A0C-PG9</b> |
| Housing type                                                                                                                                           |  | Frontal panel side                                                                | Back panel side     | Frontal panel side                                                                  | Back panel side         | Frontal panel side                                                                  | Back panel side     |
| Contacts type                                                                                                                                          |  | Female                                                                            |                     | Female                                                                              |                         | Female                                                                              |                     |
| Number of contacts                                                                                                                                     |  | 8poles                                                                            |                     | 8poles                                                                              |                         | 8poles                                                                              |                     |
| Fixing thread                                                                                                                                          |  | PG9                                                                               |                     | PG9 + CUT                                                                           |                         | PG9                                                                                 |                     |
| Cut size                                                                                                                                               |  | -                                                                                 |                     | 13.3mm                                                                              |                         | -                                                                                   |                     |
| <b>Technical data</b>                                                                                                                                  |  |                                                                                   |                     |                                                                                     |                         |                                                                                     |                     |
| Type of termination                                                                                                                                    |  | Contacts to solder wires                                                          |                     | Contacts suitable for solder PCB                                                    |                         | Contacts to solder wires                                                            |                     |
| Contacts material                                                                                                                                      |  | Brass + Gold flash                                                                |                     | Brass + Gold flash                                                                  |                         | Brass + Gold flash                                                                  |                     |
| Housing material                                                                                                                                       |  | Brass + Nickel plated                                                             |                     | Brass + Nickel plated                                                               |                         | Brass + Nickel plated                                                               |                     |
| Mobile nut material                                                                                                                                    |  | Brass + Nickel plated (SW17)                                                      |                     | Brass + Nickel plated (SW17)                                                        |                         | Brass + Nickel plated (SW17)                                                        |                     |
| M12 coupling nut torque                                                                                                                                |  | 0.4 N*m                                                                           |                     | 0.4 N*m                                                                             |                         | 0.4 N*m                                                                             |                     |
| Rated voltage                                                                                                                                          |  | 30V AC/DC                                                                         |                     | 30V AC/DC                                                                           |                         | 30V AC/DC                                                                           |                     |
| Rated current                                                                                                                                          |  | 2A                                                                                |                     | 2A                                                                                  |                         | 2A                                                                                  |                     |
| O-ring material                                                                                                                                        |  | NBR                                                                               |                     | NBR                                                                                 |                         | NBR                                                                                 |                     |
| Cable type                                                                                                                                             |  | -                                                                                 |                     | -                                                                                   |                         | PVC                                                                                 |                     |
| No.Conductors / Section                                                                                                                                |  | -                                                                                 |                     | -                                                                                   |                         | 8 x 0.25mm²                                                                         |                     |
| Conductor colours                                                                                                                                      |  | -                                                                                 |                     | -                                                                                   |                         | White;Brown;Green;Yellow;Grey;Pink;Blue;Red                                         |                     |
| Cable diameter                                                                                                                                         |  | -                                                                                 |                     | -                                                                                   |                         |                                                                                     |                     |
| Cable length                                                                                                                                           |  | -                                                                                 |                     | -                                                                                   |                         | 0.3m                                                                                |                     |
| <b>Packaging</b>                                                                                                                                       |  |                                                                                   |                     |                                                                                     |                         |                                                                                     |                     |
| Qty/Bag                                                                                                                                                |  | Not defined                                                                       |                     | Not defined                                                                         |                         | Not defined                                                                         |                     |
| <b>Other accessories options</b>                                                                                                                       |  |                                                                                   |                     |                                                                                     |                         |                                                                                     |                     |
| See accessories section                                                                                                                                |  |                                                                                   |                     |                                                                                     |                         |                                                                                     |                     |
| <b>Notes:</b><br>Connectors available with different features:<br>See the general features and codification scheme page<br>See the cables list section |  |                                                                                   |                     |                                                                                     |                         |                                                                                     |                     |





### Technical drawing



### Product description

|                    |                                           |                      |                                                                                     |                          |                                                                    |                      |
|--------------------|-------------------------------------------|----------------------|-------------------------------------------------------------------------------------|--------------------------|--------------------------------------------------------------------|----------------------|
| Connector type     | Circular connector panel mount            |                      | Circular connector panel mount                                                      |                          | Circular connector panel mount                                     |                      |
| Conforms to        | IEC 61076-2-101                           |                      | IEC 61076-2-101                                                                     |                          | IEC 61076-2-101                                                    |                      |
| Construction type  | M12 A-Coded                               |                      | M12 A-Coded                                                                         |                          | M12 A-Coded                                                        |                      |
| Description        | Circular connector M12 series,panel mount |                      | Circular connector M12 series to panel mount with contacts suitable for solder PCB. |                          | Circular connector M12 series,panel mount with PVC soldered wires. |                      |
| Part number        | <b>12FP12000-PG9</b>                      | <b>12FR12000-PG9</b> | <b>12FQ12000-PG9-CUT</b>                                                            | <b>12FS12000-PG9-CUT</b> | <b>12FP12K0C-PG9</b>                                               | <b>12FR12K0C-PG9</b> |
| Housing type       | Frontal panel side                        | Back panel side      | Frontal panel side                                                                  | Back panel side          | Frontal panel side                                                 | Back panel side      |
| Contacts type      | Female                                    |                      | Female                                                                              |                          | Female                                                             |                      |
| Number of contacts | 12poles                                   |                      | 12poles                                                                             |                          | 12poles                                                            |                      |
| Fixing thread      | PG9                                       |                      | PG9 + CUT                                                                           |                          | PG9                                                                |                      |
| Cut size           | -                                         |                      | 13.3mm                                                                              |                          | -                                                                  |                      |

### Technical data

|                         |                              |  |                                  |  |                                           |  |
|-------------------------|------------------------------|--|----------------------------------|--|-------------------------------------------|--|
| Type of termination     | Contacts to solder wires     |  | Contacts suitable for solder PCB |  | Contacts to solder wires                  |  |
| Contacts material       | Brass + Gold flash           |  | Brass + Gold flash               |  | Brass + Gold flash                        |  |
| Housing material        | Brass + Nickel plated        |  | Brass + Nickel plated            |  | Brass + Nickel plated                     |  |
| Mobile nut material     | Brass + Nickel plated (SW17) |  | Brass + Nickel plated (SW17)     |  | Brass + Nickel plated (SW17)              |  |
| M12 coupling nut torque | 0.4 N*m                      |  | 0.4 N*m                          |  | 0.4 N*m                                   |  |
| Rated voltage           | 30V AC / DC                  |  | 30V AC / DC                      |  | 30V AC / DC                               |  |
| Rated current           | 1,5A                         |  | 1,5A                             |  | 1,5A                                      |  |
| O-ring material         | NBR                          |  | NBR                              |  | NBR                                       |  |
| Cable type              | -                            |  | -                                |  | PVC                                       |  |
| No.Conductors / Section | -                            |  | -                                |  | 12 x 0.14mm <sup>2</sup>                  |  |
| Conductor colours       | -                            |  | -                                |  | Bn;Bu;Wh;Gn;Pk;Ye;Bk;Gy;Rd;Vt;Pk;Gy;Rd;Bu |  |
| Cable diameter          | -                            |  | -                                |  | -                                         |  |
| Cable length            | -                            |  | -                                |  | 0.3m                                      |  |

### Packaging

|         |             |             |             |
|---------|-------------|-------------|-------------|
| Qty/Bag | Not defined | Not defined | Not defined |
|---------|-------------|-------------|-------------|

### Other accessories options

See accessories section

### Notes:

Connectors available with different features:  
See the general features and codification scheme page  
See the cables list section

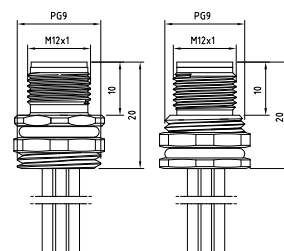
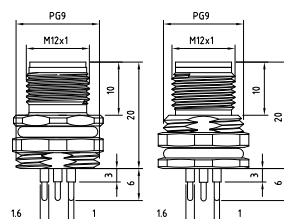
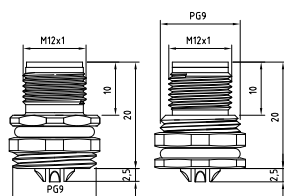
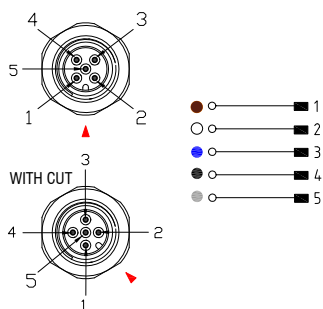


|                                                                                                                                                        |                                           |                     |                                                                                     |                         |                                                                    |                     |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|---------------------|-------------------------------------------------------------------------------------|-------------------------|--------------------------------------------------------------------|---------------------|--|
| <b>Technical drawing</b>                                                                                                                               |                                           |                     |                                                                                     |                         |                                                                    |                     |  |
| STD.<br><br>WITH CUT<br>                                                                                                                               |                                           |                     |                                                                                     |                         |                                                                    |                     |  |
| <b>Product description</b>                                                                                                                             |                                           |                     |                                                                                     |                         |                                                                    |                     |  |
| Connector type                                                                                                                                         | Circular connector panel mount            |                     | Circular connector panel mount                                                      |                         | Circular connector panel mount                                     |                     |  |
| Conforms to                                                                                                                                            | IEC 61076-2-101                           |                     | IEC 61076-2-101                                                                     |                         | IEC 61076-2-101                                                    |                     |  |
| Construction type                                                                                                                                      | M12 A-Coded                               |                     | M12 A-Coded                                                                         |                         | M12 A-Coded                                                        |                     |  |
| Description                                                                                                                                            | Circular connector M12 series,panel mount |                     | Circular connector M12 series to panel mount with contacts suitable for solder PCB. |                         | Circular connector M12 series,panel mount with PVC soldered wires. |                     |  |
| Part number                                                                                                                                            | <b>12MP4000-PG9</b>                       | <b>12MR4000-PG9</b> | <b>12MQ4000-PG9-CUT</b>                                                             | <b>12MS4000-PG9-CUT</b> | <b>12MP4A0C-PG9</b>                                                | <b>12MR4A0C-PG9</b> |  |
| Housing type                                                                                                                                           | Frontal panel side                        | Back panel side     | Frontal panel side                                                                  | Back panel side         | Frontal panel side                                                 | Back panel side     |  |
| Contacts type                                                                                                                                          | Male                                      |                     | Male                                                                                |                         | Male                                                               |                     |  |
| Number of contacts                                                                                                                                     | 4poles                                    |                     | 4poles                                                                              |                         | 4poles                                                             |                     |  |
| Fixing thread                                                                                                                                          | PG9                                       |                     | PG9 + CUT                                                                           |                         | PG9                                                                |                     |  |
| Cut size                                                                                                                                               | -                                         |                     | 13.3mm                                                                              |                         | -                                                                  |                     |  |
| <b>Technical data</b>                                                                                                                                  |                                           |                     |                                                                                     |                         |                                                                    |                     |  |
| Type of termination                                                                                                                                    | Contacts to solder wires                  |                     | Contacts suitable for solder PCB                                                    |                         | Contacts to solder wires                                           |                     |  |
| Contacts material                                                                                                                                      | Brass + Gold flash                        |                     | Brass + Gold flash                                                                  |                         | Brass + Gold flash                                                 |                     |  |
| Housing material                                                                                                                                       | Brass + Nickel plated                     |                     | Brass + Nickel plated                                                               |                         | Brass + Nickel plated                                              |                     |  |
| Mobile nut material                                                                                                                                    | Brass + Nickel plated (SW17)              |                     | Brass + Nickel plated (SW17)                                                        |                         | Brass + Nickel plated (SW17)                                       |                     |  |
| M12 coupling nut torque                                                                                                                                | 0.4 N*m                                   |                     | 0.4 N*m                                                                             |                         | 0.4 N*m                                                            |                     |  |
| Rated voltage                                                                                                                                          | 250V AC / DC                              |                     | 250V AC / DC                                                                        |                         | 250V AC / DC                                                       |                     |  |
| Rated current                                                                                                                                          | 4A                                        |                     | 4A                                                                                  |                         | 4A                                                                 |                     |  |
| O-ring material                                                                                                                                        | NBR                                       |                     | NBR                                                                                 |                         | NBR                                                                |                     |  |
| Cable type                                                                                                                                             | -                                         |                     | -                                                                                   |                         | PVC                                                                |                     |  |
| No. Conductors / Section                                                                                                                               | -                                         |                     | -                                                                                   |                         | 4 x 0.25mm²                                                        |                     |  |
| Conductor colours                                                                                                                                      | -                                         |                     | -                                                                                   |                         | Brown; White; Blue; Black                                          |                     |  |
| Cable diameter                                                                                                                                         | -                                         |                     | -                                                                                   |                         | -                                                                  |                     |  |
| Cable length                                                                                                                                           | -                                         |                     | -                                                                                   |                         | 0.3m                                                               |                     |  |
| <b>Packaging</b>                                                                                                                                       |                                           |                     |                                                                                     |                         |                                                                    |                     |  |
| Qty/Bag                                                                                                                                                | Not defined                               |                     | Not defined                                                                         |                         | Not defined                                                        |                     |  |
| <b>Other accessories options</b>                                                                                                                       |                                           |                     |                                                                                     |                         |                                                                    |                     |  |
| See accessories section                                                                                                                                |                                           |                     |                                                                                     |                         |                                                                    |                     |  |
| <b>Notes:</b><br>Connectors available with different feautres:<br>See the general features and codification scheme page<br>See the cables list section |                                           |                     |                                                                                     |                         |                                                                    |                     |  |



### Technical drawing

STD.



### Product description

|                    |                                           |                     |                                                                                     |                         |                                                                    |                     |
|--------------------|-------------------------------------------|---------------------|-------------------------------------------------------------------------------------|-------------------------|--------------------------------------------------------------------|---------------------|
| Connector type     | Circular connector panel mount            |                     | Circular connector panel mount                                                      |                         | Circular connector panel mount                                     |                     |
| Conforms to        | IEC 61076-2-101                           |                     | IEC 61076-2-101                                                                     |                         | IEC 61076-2-101                                                    |                     |
| Construction type  | M12 A-Coded                               |                     | M12 A-Coded                                                                         |                         | M12 A-Coded                                                        |                     |
| Description        | Circular connector M12 series,panel mount |                     | Circular connector M12 series to panel mount with contacts suitable for solder PCB. |                         | Circular connector M12 series,panel mount with PVC soldered wires. |                     |
| Part number        | <b>12MP5000-PG9</b>                       | <b>12MR5000-PG9</b> | <b>12MQ5000-PG9-CUT</b>                                                             | <b>12MS5000-PG9-CUT</b> | <b>12MP5A0C-PG9</b>                                                | <b>12MR5A0C-PG9</b> |
| Housing type       | Frontal panel side                        | Back panel side     | Frontal panel side                                                                  | Back panel side         | Frontal panel side                                                 | Back panel side     |
| Contacts type      | Male                                      |                     | Male                                                                                |                         | Male                                                               |                     |
| Number of contacts | 5poles                                    |                     | 5poles                                                                              |                         | 5poles                                                             |                     |
| Fixing thread      | PG9                                       |                     | PG9 + CUT                                                                           |                         | PG9                                                                |                     |
| Cut size           | -                                         |                     | 13.3mm                                                                              |                         | -                                                                  |                     |

### Technical data

|                           |                              |  |                                  |  |                                 |  |
|---------------------------|------------------------------|--|----------------------------------|--|---------------------------------|--|
| Type of termination       | Contacts to solder wires     |  | Contacts suitable for solder PCB |  | Contacts to solder wires        |  |
| Housing material          | Brass + Gold flash           |  | Brass + Gold flash               |  | Brass + Gold flash              |  |
| Mobile nut material       | Brass + Nickel plated        |  | Brass + Nickel plated            |  | Brass + Nickel plated           |  |
| M12 coupling nut material | Brass + Nickel plated (SW17) |  | Brass + Nickel plated (SW17)     |  | Brass + Nickel plated (SW17)    |  |
| M12 coupling nut torque   | 0.4 N*m                      |  | 0.4 N*m                          |  | 0.4 N*m                         |  |
| Rated voltage             | 60V AC / DC                  |  | 60V AC / DC                      |  | 60V AC / DC                     |  |
| Rated current             | 4A                           |  | 4A                               |  | 4A                              |  |
| O-ring material           | NBR                          |  | NBR                              |  | NBR                             |  |
| Cable type                | -                            |  | -                                |  | PVC                             |  |
| No. Conductors / Section  | -                            |  | -                                |  | 5 x 0.25mm <sup>2</sup>         |  |
| Conductor colours         | -                            |  | -                                |  | Brown; White; Blue; Black; Grey |  |
| Cable diameter            | -                            |  | -                                |  | -                               |  |
| Cable length              | -                            |  | -                                |  | 0.3m                            |  |

### Packaging

|         |             |             |             |
|---------|-------------|-------------|-------------|
| Qty/Bag | Not defined | Not defined | Not defined |
|---------|-------------|-------------|-------------|

### Other accessories options

See accessories section

### Notes:

Connectors available with different features:  
See the general features and codification scheme page  
See the cables list section

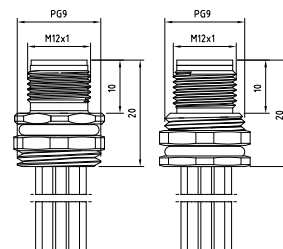
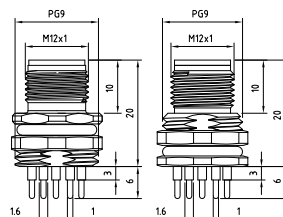
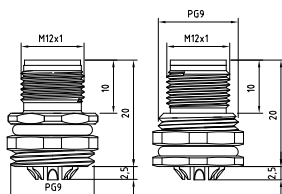
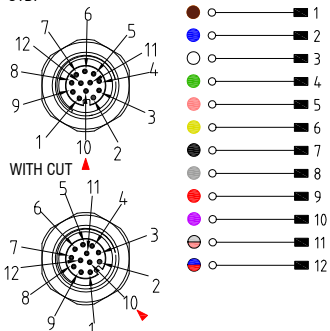


|                                                                                                                                                        |  |                                           |                     |                                                                                     |                         |                                                                    |                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------|---------------------|-------------------------------------------------------------------------------------|-------------------------|--------------------------------------------------------------------|---------------------|
| <b>Technical drawing</b>                                                                                                                               |  |                                           |                     |                                                                                     |                         |                                                                    |                     |
| STD.<br><br>WITH CUT<br>                                                                                                                               |  |                                           |                     |                                                                                     |                         |                                                                    |                     |
| <b>Product description</b>                                                                                                                             |  |                                           |                     |                                                                                     |                         |                                                                    |                     |
| Connector type                                                                                                                                         |  | Circular connector panel mount            |                     | Circular connector panel mount                                                      |                         | Circular connector panel mount                                     |                     |
| Conforms to                                                                                                                                            |  | IEC 61076-2-101                           |                     | IEC 61076-2-101                                                                     |                         | IEC 61076-2-101                                                    |                     |
| Construction type                                                                                                                                      |  | M12 A-Coded                               |                     | M12 A-Coded                                                                         |                         | M12 A -Coded                                                       |                     |
| Description                                                                                                                                            |  | Circular connector M12 series,panel mount |                     | Circular connector M12 series to panel mount with contacts suitable for solder PCB. |                         | Circular connector M12 series,panel mount with PVC soldered wires. |                     |
| Part number                                                                                                                                            |  | <b>12MP8000-PG9</b>                       | <b>12MR8000-PG9</b> | <b>12MQ8000-PG9-CUT</b>                                                             | <b>12MS8000-PG9-CUT</b> | <b>12MP8A0C-PG9</b>                                                | <b>12MR8A0C-PG9</b> |
| Housing type                                                                                                                                           |  | Frontal panel side                        | Back panel side     | Frontal panel side                                                                  | Back panel side         | Frontal panel side                                                 | Back panel side     |
| Contacts type                                                                                                                                          |  | Male                                      |                     | Male                                                                                |                         | Male                                                               |                     |
| Number of contacts                                                                                                                                     |  | 8poles                                    |                     | 8poles                                                                              |                         | 8poles                                                             |                     |
| Fixing thread                                                                                                                                          |  | PG9                                       |                     | PG9 + CUT                                                                           |                         | PG9                                                                |                     |
| Cut size                                                                                                                                               |  | -                                         |                     | 13.3mm                                                                              |                         | -                                                                  |                     |
| <b>Technical data</b>                                                                                                                                  |  |                                           |                     |                                                                                     |                         |                                                                    |                     |
| Type of termination                                                                                                                                    |  | Contacts to solder wires                  |                     | Contacts suitable for solder PCB                                                    |                         | Contacts to solder wires                                           |                     |
| Contacts material                                                                                                                                      |  | Brass + Gold flash                        |                     | Brass + Gold flash                                                                  |                         | Brass + Gold flash                                                 |                     |
| Housing material                                                                                                                                       |  | Brass + Nickel plated                     |                     | Brass + Nickel plated                                                               |                         | Brass + Nickel plated                                              |                     |
| Mobile nut material                                                                                                                                    |  | Brass + Nickel plated (SW17)              |                     | Brass + Nickel plated (SW17)                                                        |                         | Brass + Nickel plated (SW17)                                       |                     |
| M12 coupling nut torque                                                                                                                                |  | 0.4 N*m                                   |                     | 0.4 N*m                                                                             |                         | 0.4 N*m                                                            |                     |
| Rated voltage                                                                                                                                          |  | 30V AC/DC                                 |                     | 30V AC/DC                                                                           |                         | 30V AC/DC                                                          |                     |
| Rated current                                                                                                                                          |  | 2A                                        |                     | 2A                                                                                  |                         | 2A                                                                 |                     |
| O-ring material                                                                                                                                        |  | NBR                                       |                     | NBR                                                                                 |                         | NBR                                                                |                     |
| Cable type                                                                                                                                             |  | -                                         |                     | -                                                                                   |                         | PVC                                                                |                     |
| No.Conductors / Section                                                                                                                                |  | -                                         |                     | -                                                                                   |                         | 8 x 0.25mm²                                                        |                     |
| Conductor colours                                                                                                                                      |  | -                                         |                     | -                                                                                   |                         | White;Brown;Green;Yellow;Grey;Pink;Blue;Red                        |                     |
| Cable diameter                                                                                                                                         |  | -                                         |                     | -                                                                                   |                         | -                                                                  |                     |
| Cable length                                                                                                                                           |  | -                                         |                     | -                                                                                   |                         | 0.3m                                                               |                     |
| <b>Packaging</b>                                                                                                                                       |  |                                           |                     |                                                                                     |                         |                                                                    |                     |
| Qty/Bag                                                                                                                                                |  | Not defined                               |                     | Not defined                                                                         |                         | Not defined                                                        |                     |
| <b>Other accessories options</b>                                                                                                                       |  |                                           |                     |                                                                                     |                         |                                                                    |                     |
| See accessories section                                                                                                                                |  |                                           |                     |                                                                                     |                         |                                                                    |                     |
| <b>Notes:</b><br>Connectors available with different feautres:<br>See the general features and codification scheme page<br>See the cables list section |  |                                           |                     |                                                                                     |                         |                                                                    |                     |



### Technical drawing

STD.



### Product description

|                    |                                           |                      |                                                                                     |                          |                                                                    |                      |
|--------------------|-------------------------------------------|----------------------|-------------------------------------------------------------------------------------|--------------------------|--------------------------------------------------------------------|----------------------|
| Connector type     | Circular connector panel mount            |                      | Circular connector panel mount                                                      |                          | Circular connector panel mount                                     |                      |
| Conforms to        | IEC 61076-2-101                           |                      | IEC 61076-2-101                                                                     |                          | IEC 61076-2-101                                                    |                      |
| Construction type  | M12 A-Coded                               |                      | M12 A-Coded                                                                         |                          | M12 A-Coded                                                        |                      |
| Description        | Circular connector M12 series,panel mount |                      | Circular connector M12 series to panel mount with contacts suitable for solder PCB. |                          | Circular connector M12 series,panel mount with PVC soldered wires. |                      |
| Part number        | <b>12MP12000-PG9</b>                      | <b>12MR12000-PG9</b> | <b>12MQ12000-PG9-CUT</b>                                                            | <b>12MS12000-PG9-CUT</b> | <b>12MP12K0C-PG9</b>                                               | <b>12MR12K0C-PG9</b> |
| Housing type       | Frontal panel side                        | Back panel side      | Frontal panel side                                                                  | Back panel side          | Frontal panel side                                                 | Back panel side      |
| Contacts type      | Male                                      |                      | Male                                                                                |                          | Male                                                               |                      |
| Number of contacts | 12poles                                   |                      | 12poles                                                                             |                          | 12poles                                                            |                      |
| Fixing thread      | PG9                                       |                      | PG9 + CUT                                                                           |                          | PG9                                                                |                      |
| Cut size           | -                                         |                      | 13.3mm                                                                              |                          | -                                                                  |                      |

### Technical data

|                         |                              |  |                                  |  |                                           |  |
|-------------------------|------------------------------|--|----------------------------------|--|-------------------------------------------|--|
| Type of termination     | Contacts to solder wires     |  | Contacts suitable for solder PCB |  | Contacts to solder wires                  |  |
| Contacts material       | Brass + Gold flash           |  | Brass + Gold flash               |  | Brass + Gold flash                        |  |
| Housing material        | Brass + Nickel plated        |  | Brass + Nickel plated            |  | Brass + Nickel plated                     |  |
| Mobile nut material     | Brass + Nickel plated (SW17) |  | Brass + Nickel plated (SW17)     |  | Brass + Nickel plated (SW17)              |  |
| M12 coupling nut torque | 0.4 N*m                      |  | 0.4 N*m                          |  | 0.4 N*m                                   |  |
| Rated voltage           | 30V AC / DC                  |  | 30V AC / DC                      |  | 30V AC / DC                               |  |
| Rated current           | 1,5A                         |  | 1,5A                             |  | 1,5A                                      |  |
| O-ring material         | NBR                          |  | NBR                              |  | NBR                                       |  |
| Cable type              | -                            |  | -                                |  | PVC                                       |  |
| No.Conductors / Section | -                            |  | -                                |  | 12 x 0.14mm <sup>2</sup>                  |  |
| Conductor colours       | -                            |  | -                                |  | Bn;Bu;Wh;Gn;Pk;Ye;Bk;Gy;Rd;Vt;Pk;Gy;Rd;Bu |  |
| Cable diameter          | -                            |  | -                                |  | -                                         |  |
| Cable length            | -                            |  | -                                |  | 0.3m                                      |  |

### Packaging

|         |             |             |             |
|---------|-------------|-------------|-------------|
| Qty/Bag | Not defined | Not defined | Not defined |
|---------|-------------|-------------|-------------|

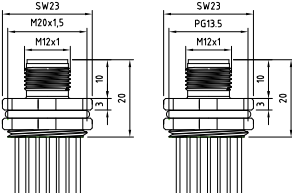
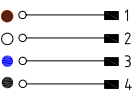
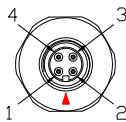
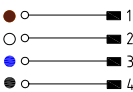
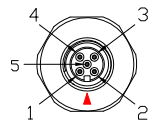
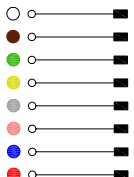
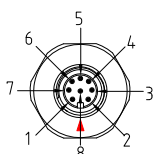
### Other accessories options

See accessories section

### Notes:

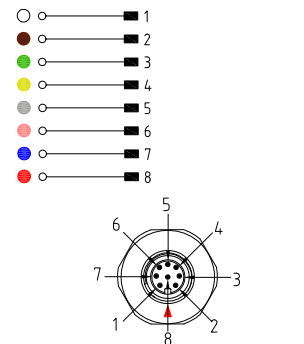
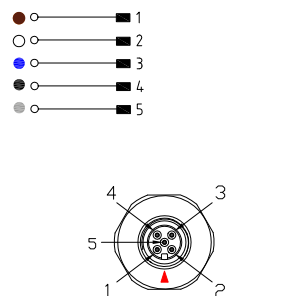
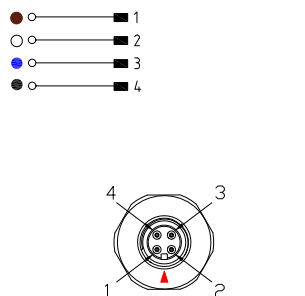
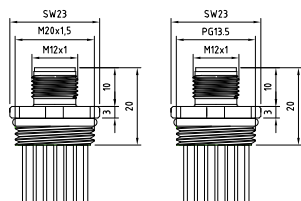
Connectors available with different features:  
See the general features and codification scheme page  
See the cables list section



|                                                                                                                                                        |                                                                    |                                                                                                                                                                            |                                                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| <b>Technical drawing</b>                                                                                                                               |                                                                    |                                                                                                                                                                            |                                                                    |
|                                                                       |                                                                    | <br>     |                                                                    |
|                                                                                                                                                        |                                                                    | <br>    |                                                                    |
|                                                                                                                                                        |                                                                    | <br> |                                                                    |
| <b>Product description</b>                                                                                                                             |                                                                    |                                                                                                                                                                            |                                                                    |
| Connector type                                                                                                                                         | Circular connector panel mount                                     |                                                                                                                                                                            | Circular connector panel mount                                     |
| Conforms to                                                                                                                                            | IEC 61076-2-101                                                    |                                                                                                                                                                            | IEC 61076-2-101                                                    |
| Construction type                                                                                                                                      | M12 A-Coded                                                        |                                                                                                                                                                            | M12 A-Coded                                                        |
| Description                                                                                                                                            | Circular connector M12 series,panel mount, with PVC soldered wires |                                                                                                                                                                            | Circular connector M12 series,panel mount, with PVC soldered wires |
| Part number                                                                                                                                            | <b>12MP4A0C-PG13.5</b>                                             | <b>12MP4A0C-M20</b>                                                                                                                                                        | <b>12MP5A0C-PG13.5</b> <b>12MP5A0C-M20</b>                         |
| Housing type                                                                                                                                           | Frontal panel side                                                 |                                                                                                                                                                            | Frontal panel side                                                 |
| Contacts type                                                                                                                                          | Male                                                               |                                                                                                                                                                            | Male                                                               |
| Number of contacts                                                                                                                                     | 4poles                                                             |                                                                                                                                                                            | 5poles                                                             |
| Fixing thread                                                                                                                                          | PG13.5                                                             | M20x1.5                                                                                                                                                                    | PG13.5   M20x1.5                                                   |
| Cut size                                                                                                                                               | -                                                                  |                                                                                                                                                                            | -                                                                  |
| <b>Technical data</b>                                                                                                                                  |                                                                    |                                                                                                                                                                            |                                                                    |
| Type of termination                                                                                                                                    | Contacts to solder wires                                           |                                                                                                                                                                            | Contacts to solder wires                                           |
| Contacts material                                                                                                                                      | Brass+Gold flash                                                   |                                                                                                                                                                            | Brass+Gold flash                                                   |
| Housing material                                                                                                                                       | Brass+Nickel plated                                                |                                                                                                                                                                            | Brass+Nickel plated                                                |
| Mobile coupling nut material                                                                                                                           | Brass+Nickel plated (SW22)                                         |                                                                                                                                                                            | Brass+Nickel plated (SW22)                                         |
| M12 coupling nut torque                                                                                                                                | 0.4 N*m                                                            |                                                                                                                                                                            | 0.4 N*m                                                            |
| Rated voltage                                                                                                                                          | 250V AC / DC                                                       |                                                                                                                                                                            | 60V AC / DC                                                        |
| Rated current                                                                                                                                          | 4A                                                                 |                                                                                                                                                                            | 4A                                                                 |
| O-ring material                                                                                                                                        | NBR                                                                |                                                                                                                                                                            | NBR                                                                |
| Cable type                                                                                                                                             | PVC                                                                |                                                                                                                                                                            | PVC                                                                |
| No. Conductors / Section                                                                                                                               | 4 x 0.25mm²                                                        |                                                                                                                                                                            | 5 x 0.25mm²                                                        |
| Conductor colours                                                                                                                                      | Brown; White; Blue; Black                                          |                                                                                                                                                                            | Brown; White; Blue; Black; Grey                                    |
| Cable diameter                                                                                                                                         | -                                                                  |                                                                                                                                                                            | -                                                                  |
| Cable length                                                                                                                                           | 0.3m                                                               |                                                                                                                                                                            | 0.3m                                                               |
| <b>Packaging</b>                                                                                                                                       |                                                                    |                                                                                                                                                                            |                                                                    |
| Qty/Bag                                                                                                                                                | Not defined                                                        |                                                                                                                                                                            | Not defined                                                        |
| <b>Other accessories options</b>                                                                                                                       |                                                                    |                                                                                                                                                                            |                                                                    |
| See accessories section                                                                                                                                |                                                                    |                                                                                                                                                                            |                                                                    |
| <b>Notes:</b><br>Connectors available with different feautres:<br>See the general features and codification scheme page<br>See the cables list section |                                                                    |                                                                                                                                                                            |                                                                    |



#### Technical drawing



#### Product description

|                    |                                                                                       |                      |                                                                                       |                      |                                                                                       |                      |
|--------------------|---------------------------------------------------------------------------------------|----------------------|---------------------------------------------------------------------------------------|----------------------|---------------------------------------------------------------------------------------|----------------------|
| Connector type     | Circular connector panel mount                                                        |                      | Circular connector panel mount                                                        |                      | Circular connector panel mount                                                        |                      |
| Conforms to        | IEC 61076-2-101                                                                       |                      | IEC 61076-2-101                                                                       |                      | IEC 61076-2-101                                                                       |                      |
| Construction type  | M12 A-Coded                                                                           |                      | M12 A-Coded                                                                           |                      | M12 A-Coded                                                                           |                      |
| Description        | Circular connector M12 series, panel mount, plastic material, with PVC soldered wires |                      | Circular connector M12 series, panel mount, plastic material, with PVC soldered wires |                      | Circular connector M12 series, panel mount, plastic material, with PVC soldered wires |                      |
| Part number        | <b>12MPP4A0C-PG13.5</b>                                                               | <b>12MPP4A0C-M20</b> | <b>12MPP5A0C-PG13.5</b>                                                               | <b>12MPP5A0C-M20</b> | <b>12MPP8A0C-PG13.5</b>                                                               | <b>12MPP8A0C-M20</b> |
| Housing type       | Frontal panel side                                                                    |                      | Frontal panel side                                                                    |                      | Frontal panel side                                                                    |                      |
| Contacts type      | Male                                                                                  |                      | Male                                                                                  |                      | Male                                                                                  |                      |
| Number of contacts | 4poles                                                                                |                      | 5poles                                                                                |                      | 8poles                                                                                |                      |
| Fixing thread      | PG13.5                                                                                | M20x1.5              | PG13.5                                                                                | M20x1.5              | PG13.5                                                                                | M20x1.5              |
| Fixed nut size     | SW23                                                                                  |                      | SW23                                                                                  |                      | SW23                                                                                  |                      |

#### Technical data

|                              |                           |  |                                 |  |                                                    |  |
|------------------------------|---------------------------|--|---------------------------------|--|----------------------------------------------------|--|
| Type of termination          | Contacts to solder wires  |  | Contacts to solder wires        |  | Contacts to solder wires                           |  |
| Contacts material            | Brass + Gold flash        |  | Brass + Gold flash              |  | Brass + Gold flash                                 |  |
| Housing material             | PA66                      |  | PA66                            |  | PA66                                               |  |
| Mobile coupling nut material | -                         |  | -                               |  | -                                                  |  |
| M12 coupling nut torque      | 0.4 N*m                   |  | 0.4 N*m                         |  | 0.4 N*m                                            |  |
| Rated voltage                | 250V AC / DC              |  | 60V AC / DC                     |  | 30V AC / DC                                        |  |
| Rated current                | 4A                        |  | 4A                              |  | 2A                                                 |  |
| O-ring material              | NBR                       |  | NBR                             |  | NBR                                                |  |
| Cable type                   | PVC                       |  | PVC                             |  | PVC                                                |  |
| No. Conductors / Section     | 4 x 0.25mm <sup>2</sup>   |  | 5 x 0.25mm <sup>2</sup>         |  | 8 x 0.25mm <sup>2</sup>                            |  |
| Conductor colours            | Brown; White; Blue; Black |  | Brown; White; Blue; Black; Grey |  | White; Brown; Green; Yellow; Grey; Pink; Blue; Red |  |
| Cable diameter               | -                         |  | -                               |  | -                                                  |  |
| Cable length                 | 0.3m                      |  | 0.3m                            |  | 0.3m                                               |  |

#### Packaging

|         |             |             |             |
|---------|-------------|-------------|-------------|
| Qty/Bag | Not defined | Not defined | Not defined |
|---------|-------------|-------------|-------------|

#### Other accessories options

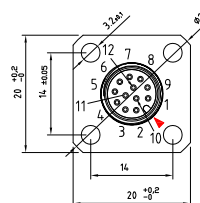
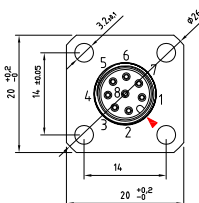
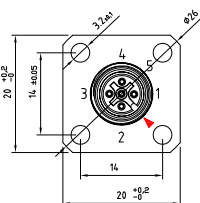
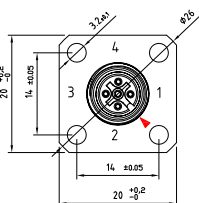
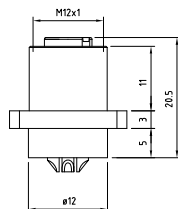
See accessories section

#### Notes:

Connectors available with different features:  
See the general features and codification scheme page  
See the cables list section



## Technical drawing



### Product description

|                    |                                                       |                                                       |                                                       |                                                       |
|--------------------|-------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|
| Connector type     | Circular connector panel mount                        | Circular connector panel mount                        | Circular connector panel mount                        | Circular connector panel mount                        |
| Conforms to        | IEC 61076-2-101                                       | IEC 61076-2-101                                       | IEC 61076-2-101                                       | IEC 61076-2-101                                       |
| Construction type  | M12 A-Coded                                           | M12 A-Coded                                           | M12 A-Coded                                           | M12 A-Coded                                           |
| Description        | Circular connector M12 series,panel mount with FLANGE | Circular connector M12 series,panel mount with FLANGE | Circular connector M12 series,panel mount with FLANGE | Circular connector M12 series,panel mount with FLANGE |
| Part number        | <b>12FP4000-FL</b>                                    | <b>12FP5000-FL</b>                                    | <b>12FP8000-FL</b>                                    | <b>12FP12000-FL</b>                                   |
| Housing type       | Frontal panel side                                    | Frontal panel side                                    | Frontal panel side                                    | Frontal panel side                                    |
| Contacts type      | Female                                                | Female                                                | Female                                                | Female                                                |
| Number of contacts | 4poles                                                | 5poles                                                | 8poles                                                | 12poles                                               |
| Fixing thread      | -                                                     | -                                                     | -                                                     | -                                                     |
| Cut size           | -                                                     | -                                                     | -                                                     | -                                                     |

### Technical data

|                         |                          |                          |                          |                          |
|-------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Type of termination     | Contacts to solder wires | Contacts to solder wires | Contacts to solder wires | Contacts to solder wires |
| Contacts material       | Brass + Gold flash       | Brass + Gold flash       | Brass + Gold flash       | Brass + Gold flash       |
| Housing material        | Brass + Nickel plated    | Brass + Nickel plated    | Brass + Nickel plated    | Brass + Nickel plated    |
| Mobile nut material     | -                        | -                        | -                        | -                        |
| M12 coupling nut torque | 0.4 N*m                  | 0.4 N*m                  | 0.4 N*m                  | 0.4 N*m                  |
| Rated voltage           | 250V AC/DC               | 60V AC/DC                | 30V AC/DC                | 30V AC/DC                |
| Rated current           | 4A                       | 4A                       | 2A                       | 1.5A                     |
| O-ring material         | -                        | -                        | -                        | -                        |
| Cable type              | -                        | -                        | -                        | -                        |
| No.Conductors / Section | -                        | -                        | -                        | -                        |
| Conductor colours       | -                        | -                        | -                        | -                        |
| Cable diameter          | -                        | -                        | -                        | -                        |
| Cable length            | -                        | -                        | -                        | -                        |

## Packaging

|         |             |             |             |             |
|---------|-------------|-------------|-------------|-------------|
| Qty/Bag | Not defined | Not defined | Not defined | Not defined |
|---------|-------------|-------------|-------------|-------------|

### Other accessories options

See accessories section

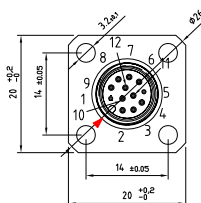
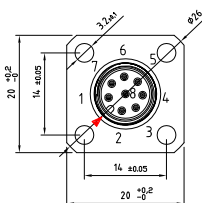
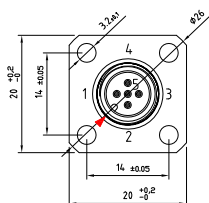
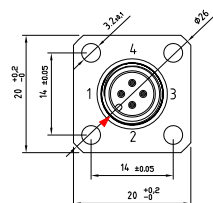
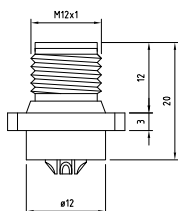
**Notes:**

Connectors available with different features:  
See the general features and codification scheme page  
See the cables list section





### Technical drawing



### Product description

|                    |                                                        |                                                        |                                                        |                                                        |
|--------------------|--------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------|
| Connector type     | Circular connector panel mount                         | Circular connector panel mount                         | Circular connector panel mount                         | Circular connector panel mount                         |
| Conforms to        | IEC 61076-2-101                                        | IEC 61076-2-101                                        | IEC 61076-2-101                                        | IEC 61076-2-101                                        |
| Construction type  | M12 A-Coded                                            | M12 A-Coded                                            | M12 A-Coded                                            | M12 A-Coded                                            |
| Description        | Circular connector M12 series, panel mount with FLANGE | Circular connector M12 series, panel mount with FLANGE | Circular connector M12 series, panel mount with FLANGE | Circular connector M12 series, panel mount with FLANGE |
| Part number        | <b>12MP4000-FL</b>                                     | <b>12MP5000-FL</b>                                     | <b>12MP8000-FL</b>                                     | <b>12MP12000-FL</b>                                    |
| Housing type       | Frontal panel side                                     | Frontal panel side                                     | Frontal panel side                                     | Frontal panel side                                     |
| Contacts type      | Male                                                   | Male                                                   | Male                                                   | Male                                                   |
| Number of contacts | 4poles                                                 | 5poles                                                 | 8poles                                                 | 12poles                                                |
| Fixing thread      | -                                                      | -                                                      | -                                                      | -                                                      |
| Cut size           | -                                                      | -                                                      | -                                                      | -                                                      |

### Technical data

|                          |                          |                          |                          |                          |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Type of termination      | Contacts to solder wires | Contacts to solder wires | Contacts to solder wires | Contacts to solder wires |
| Contacts material        | Brass + Gold flash       | Brass + Gold flash       | Brass + Gold flash       | Brass + Gold flash       |
| Housing material         | Brass + Nickel plated    | Brass + Nickel plated    | Brass + Nickel plated    | Brass + Nickel plated    |
| Mobile nut material      | -                        | -                        | -                        | -                        |
| M12 coupling nut torque  | 0.4 N*m                  | 0.4 N*m                  | 0.4 N*m                  | 0.4 N*m                  |
| Rated voltage            | 250V AC/DC               | 60V AC/DC                | 30V AC/DC                | 30V AC/DC                |
| Rated current            | 4A                       | 4A                       | 2A                       | 1.5A                     |
| O-ring material          | -                        | -                        | -                        | -                        |
| Cable type               | -                        | -                        | -                        | -                        |
| No. Conductors / Section | -                        | -                        | -                        | -                        |
| Conductor colours        | -                        | -                        | -                        | -                        |
| Cable diameter           | -                        | -                        | -                        | -                        |
| Cable length             | -                        | -                        | -                        | -                        |

### Packaging

|         |             |             |             |             |
|---------|-------------|-------------|-------------|-------------|
| Qty/Bag | Not defined | Not defined | Not defined | Not defined |
|---------|-------------|-------------|-------------|-------------|

### Other accessories options

See accessories section

### Notes:

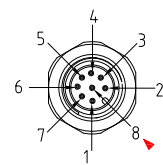
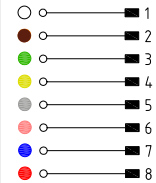
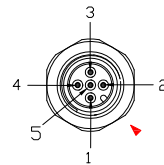
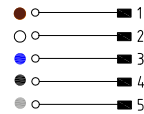
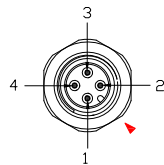
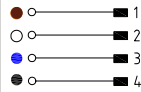
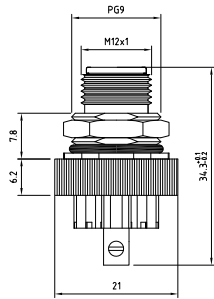
Connectors available with different features:  
See the general features and codification scheme page  
See the cables list section



|                                                                                                                                                        |                                                                |                                                                |                                                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|
| <b>Technical drawing</b>                                                                                                                               |                                                                |                                                                |                                                                |
|                                                                                                                                                        |                                                                |                                                                |                                                                |
| <b>Product description</b>                                                                                                                             |                                                                |                                                                |                                                                |
| Connector type                                                                                                                                         | Circular connector panel mount                                 | Circular connector panel mount                                 | Circular connector panel mount                                 |
| Conforms to                                                                                                                                            | IEC 61076-2-101                                                | IEC 61076-2-101                                                | IEC 61076-2-101                                                |
| Construction type                                                                                                                                      | M12 A-Coded                                                    | M12 A-Coded                                                    | M12 A-Coded                                                    |
| Description                                                                                                                                            | Circular connector M12 series,panel mount, with screw contacts | Circular connector M12 series,panel mount, with screw contacts | Circular connector M12 series,panel mount, with screw contacts |
| Part number                                                                                                                                            | <b>12FX4000-PG9-CUT</b>                                        | <b>12FX5000-PG9-CUT</b>                                        | <b>12FX8000-PG9-CUT</b>                                        |
| Housing type                                                                                                                                           | Back panel side                                                | Back panel side                                                | Back panel side                                                |
| Contacts type                                                                                                                                          | Female                                                         | Female                                                         | Female                                                         |
| Number of contacts                                                                                                                                     | 4poles                                                         | 5poles                                                         | 8poles                                                         |
| Fixing thread                                                                                                                                          | PG9                                                            | PG9                                                            | PG9                                                            |
| Cut size                                                                                                                                               | 13.3mm                                                         | 13.3mm                                                         | 13.3mm                                                         |
| <b>Technical data</b>                                                                                                                                  |                                                                |                                                                |                                                                |
| Type of termination                                                                                                                                    | Screw contacts                                                 | Screw contacts                                                 | Screw contacts                                                 |
| Contact screw torque                                                                                                                                   | 0.2 N*m                                                        | 0.2 N*m                                                        | 0.2 N*m                                                        |
| Contacts material                                                                                                                                      | Brass + Gold flash                                             | Brass + Gold flash                                             | Brass + Gold flash                                             |
| Housing material                                                                                                                                       | Brass + Nickel plated                                          | Brass + Nickel plated                                          | Brass + Nickel plated                                          |
| Mobile nut material                                                                                                                                    | Brass + Nickel plated (SW17)                                   | Brass + Nickel plated (SW17)                                   | Brass + Nickel plated (SW17)                                   |
| M12 coupling nut torque                                                                                                                                | 0.4 N*m                                                        | 0.4 N*m                                                        | 0.4 N*m                                                        |
| Rated voltage                                                                                                                                          | 250V AC / DC                                                   | 60V AC / DC                                                    | 30V AC / DC                                                    |
| Rated current                                                                                                                                          | 4A                                                             | 4A                                                             | 2A                                                             |
| O-ring material                                                                                                                                        | NBR                                                            | NBR                                                            | NBR                                                            |
| Conductors cross section                                                                                                                               | From 0.14(26AWG) to 0.50mm²(20AWG)                             | From 0.14(26AWG) to 0.50mm²(20AWG)                             | From 0.14(26AWG) to 0.50mm²(20AWG)                             |
| <b>Packaging</b>                                                                                                                                       |                                                                |                                                                |                                                                |
| Qty/Bag                                                                                                                                                | Not defined                                                    | Not defined                                                    | Not defined                                                    |
| <b>Other accessories options</b>                                                                                                                       |                                                                |                                                                |                                                                |
| See accessories section                                                                                                                                |                                                                |                                                                |                                                                |
| <b>Notes:</b><br>Connectors available with different feautres:<br>See the general features and codification scheme page<br>See the cables list section |                                                                |                                                                |                                                                |



#### Technical drawing



#### Product description

|                    |                                                                |                                                                |                                                                |
|--------------------|----------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|
| Connector type     | Circular connector panel mount                                 | Circular connector panel mount                                 | Circular connector panel mount                                 |
| Conforms to        | IEC 61076-2-101                                                | IEC 61076-2-101                                                | IEC 61076-2-101                                                |
| Construction type  | M12 A-Coded                                                    | M12 A-Coded                                                    | M12 A-Coded                                                    |
| Description        | Circular connector M12 series,panel mount, with screw contacts | Circular connector M12 series,panel mount, with screw contacts | Circular connector M12 series,panel mount, with screw contacts |
| Part number        | <b>12MX4000-PG9-CUT</b>                                        | <b>12MX5000-PG9-CUT</b>                                        | <b>12MX8000-PG9-CUT</b>                                        |
| Housing type       | Back panel side                                                | Back panel side                                                | Back panel side                                                |
| Contacts type      | Male                                                           | Male                                                           | Male                                                           |
| Number of contacts | 4poles                                                         | 5poles                                                         | 8poles                                                         |
| Fixing thread      | PG9                                                            | PG9                                                            | PG9                                                            |
| Cut size           | 13.3mm                                                         | 13.3mm                                                         | 13.3mm                                                         |

#### Technical data

|                          |                                    |                                    |                                    |
|--------------------------|------------------------------------|------------------------------------|------------------------------------|
| Type of termination      | Screw contacts                     | Screw contacts                     | Screw contacts                     |
| Contact screw torque     | 0.2 N*m                            | 0.2 N*m                            | 0.2 N*m                            |
| Contacts material        | Brass + Gold flash                 | Brass + Gold flash                 | Brass + Gold flash                 |
| Housing material         | Brass + Nickel plated              | Brass + Nickel plated              | Brass + Nickel plated              |
| Mobile nut material      | Brass + Nickel plated (SW17)       | Brass + Nickel plated (SW17)       | Brass + Nickel plated (SW17)       |
| M12 coupling nut torque  | 0.4 N*m                            | 0.4 N*m                            | 0.4 N*m                            |
| Rated voltage            | 250V AC / DC                       | 60V AC / DC                        | 30V AC / DC                        |
| Rated current            | 4A                                 | 4A                                 | 2A                                 |
| O-ring material          | NBR                                | NBR                                | NBR                                |
| Conductors cross section | From 0.14(26AWG) to 0.50mm²(20AWG) | From 0.14(26AWG) to 0.50mm²(20AWG) | From 0.14(26AWG) to 0.50mm²(20AWG) |

#### Packaging

|         |             |             |             |
|---------|-------------|-------------|-------------|
| Qty/Bag | Not defined | Not defined | Not defined |
|---------|-------------|-------------|-------------|

#### Other accessories options

See accessories section

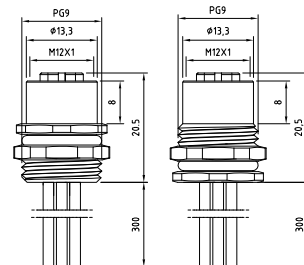
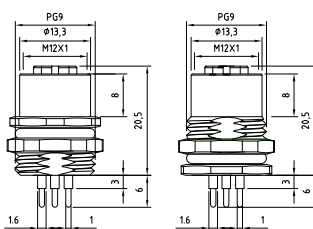
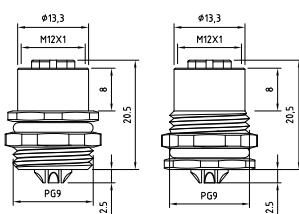
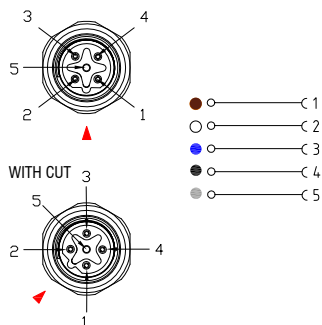
#### Notes:

Connectors available with different features:  
See the general features and codification scheme page  
See the cables list section



#### Technical drawing

STD.



#### Product description

|                   |                                                    |                       |                                                                                          |                           |                                                                            |                       |
|-------------------|----------------------------------------------------|-----------------------|------------------------------------------------------------------------------------------|---------------------------|----------------------------------------------------------------------------|-----------------------|
| Connector type    | Circular connector panel mount                     |                       | Circular connector panel mount                                                           |                           | Circular connector panel mount                                             |                       |
| Conforms to       | IEC 61076-2-101                                    |                       | IEC 61076-2-101                                                                          |                           | IEC 61076-2-101                                                            |                       |
| Construction type | M12 B-Coded                                        |                       | M12 B-Coded                                                                              |                           | M12 B-Coded                                                                |                       |
| Description       | Circular connector M12 series,B-coded, panel mount |                       | Circular connector M12 series B-coded,panel mount,with contacts suitable for solder PCB. |                           | Circular connector M12 series B-coded,panel mount,with PVC soldered wires. |                       |
| Part number       | <b>B-12FP5000-PG9</b>                              | <b>B-12FR5000-PG9</b> | <b>B-12FQ5000-PG9-CUT</b>                                                                | <b>B-12FS5000-PG9-CUT</b> | <b>B-12FP5A0C-PG9</b>                                                      | <b>B-12FR5A0C-PG9</b> |
| Housing type      | Frontal panel side                                 | Back panel side       | Frontal panel side                                                                       | Back panel side           | Frontal panel side                                                         | Back panel side       |
| Cable gland       | Female                                             |                       | Female                                                                                   |                           | Female                                                                     |                       |
| Contacts type     | 5poles                                             |                       | 5poles                                                                                   |                           | 5poles                                                                     |                       |
| Fixing thread     | PG9                                                |                       | PG9 + CUT                                                                                |                           | PG9                                                                        |                       |
| Cut size          | -                                                  |                       | 13.3mm                                                                                   |                           | -                                                                          |                       |

#### Technical data

|                           |                              |  |                                  |  |                                |  |
|---------------------------|------------------------------|--|----------------------------------|--|--------------------------------|--|
| Type of termination       | Contacts to solder wires     |  | Contacts suitable for solder PCB |  | Contacts to solder wires       |  |
| Contacts material         | Brass + Gold flash           |  | Brass + Gold flash               |  | Brass + Gold flash             |  |
| Coupling nut type         | Brass + Nickel plated        |  | Brass + Nickel plated            |  | Brass + Nickel plated          |  |
| M12 coupling nut material | Brass + Nickel plated (SW17) |  | Brass + Nickel plated (SW17)     |  | Brass + Nickel plated (SW17)   |  |
| M12 coupling nut torque   | 0.4 N*m                      |  | 0.4 N*m                          |  | 0.4 N*m                        |  |
| Rated voltage             | 60V AC / DC                  |  | 60V AC / DC                      |  | 60V AC / DC                    |  |
| Rated current             | 4A                           |  | 4A                               |  | 4A                             |  |
| O-ring material           | NBR                          |  | NBR                              |  | NBR                            |  |
| Cable type                | -                            |  | -                                |  | PVC                            |  |
| No.Conductors / Section   | -                            |  | -                                |  | 5 x 0.25mm <sup>2</sup>        |  |
| Conductor colours         | -                            |  | -                                |  | Brown; White; Blue; Black;Grey |  |
| Cable diameter            | -                            |  | -                                |  | -                              |  |
| Cable length              | -                            |  | -                                |  | 0.3m                           |  |

#### Packaging

|         |             |             |             |
|---------|-------------|-------------|-------------|
| Qty/Bag | Not defined | Not defined | Not defined |
|---------|-------------|-------------|-------------|

#### Other accessories options

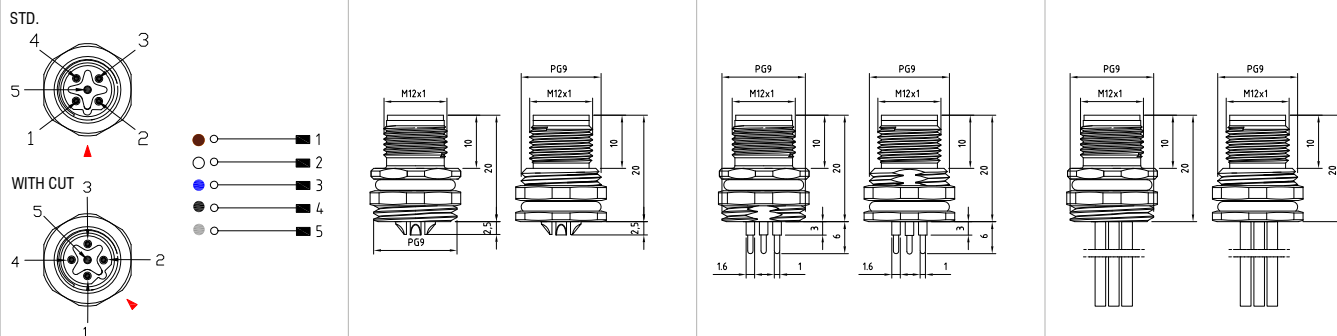
See accessories section

#### Notes:

Connectors available with different features:  
See the general features and codification scheme page  
See the cables list section



### Technical drawing



### Product description

|                   |                                                    |                       |                                                                                          |                           |                                                                            |                       |
|-------------------|----------------------------------------------------|-----------------------|------------------------------------------------------------------------------------------|---------------------------|----------------------------------------------------------------------------|-----------------------|
| Connector type    | Circular connector panel mount                     |                       | Circular connector panel mount                                                           |                           | Circular connector panel mount                                             |                       |
| Conforms to       | IEC 61076-2-101                                    |                       | IEC 61076-2-101                                                                          |                           | IEC 61076-2-101                                                            |                       |
| Construction type | M12 B-Coded                                        |                       | M12 B-Coded                                                                              |                           | M12 B-Coded                                                                |                       |
| Description       | Circular connector M12 series,B-coded, panel mount |                       | Circular connector M12 series B-coded,panel mount,with contacts suitable for solder PCB. |                           | Circular connector M12 series B-coded,panel mount,with PVC soldered wires. |                       |
| Part number       | <b>B-12MP5000-PG9</b>                              | <b>B-12MR5000-PG9</b> | <b>B-12MQ5000-PG9-CUT</b>                                                                | <b>B-12MS5000-PG9-CUT</b> | <b>B-12MP5A0C-PG9</b>                                                      | <b>B-12MR5A0C-PG9</b> |
| Housing type      | Frontal panel side                                 | Back panel side       | Frontal panel side                                                                       | Back panel side           | Frontal panel side                                                         | Back panel side       |
| Cable gland       | Male                                               |                       | Male                                                                                     |                           | Male                                                                       |                       |
| Contacts type     | 5poles                                             |                       | 5poles                                                                                   |                           | 5poles                                                                     |                       |
| Fixing thread     | PG9                                                |                       | PG9 + CUT                                                                                |                           | PG9                                                                        |                       |
| Cut size          | -                                                  |                       | 13.3mm                                                                                   |                           | -                                                                          |                       |

### Technical data

|                           |                              |  |                                  |  |                                |  |
|---------------------------|------------------------------|--|----------------------------------|--|--------------------------------|--|
| Type of termination       | Contacts to solder wires     |  | Contacts suitable for solder PCB |  | Contacts to solder wires       |  |
| Contacts material         | Brass + Gold flash           |  | Brass + Gold flash               |  | Brass + Gold flash             |  |
| Coupling nut type         | Brass + Nickel plated        |  | Brass + Nickel plated            |  | Brass + Nickel plated          |  |
| M12 coupling nut material | Brass + Nickel plated (SW17) |  | Brass + Nickel plated (SW17)     |  | Brass + Nickel plated (SW17)   |  |
| M12 coupling nut torque   | 0.4 N*m                      |  | 0.4 N*m                          |  | 0.4 N*m                        |  |
| Rated voltage             | 60V AC / DC                  |  | 60V AC / DC                      |  | 60V AC / DC                    |  |
| Rated current             | 4A                           |  | 4A                               |  | 4A                             |  |
| O-ring material           | NBR                          |  | NBR                              |  | NBR                            |  |
| Cable type                | -                            |  | -                                |  | PVC                            |  |
| No.Conductors / Section   | -                            |  | -                                |  | 5 x 0.25mm <sup>2</sup>        |  |
| Conductor colours         | -                            |  | -                                |  | Brown; White; Blue; Black;Grey |  |
| Cable diameter            | -                            |  | -                                |  | -                              |  |
| Cable length              | -                            |  | -                                |  | 0.3m                           |  |

### Packaging

|         |             |             |             |
|---------|-------------|-------------|-------------|
| Qty/Bag | Not defined | Not defined | Not defined |
|---------|-------------|-------------|-------------|

### Other accessories options

See accessories section

### Notes:

Connectors available with different features:  
See the general features and codification scheme page  
See the cables list section

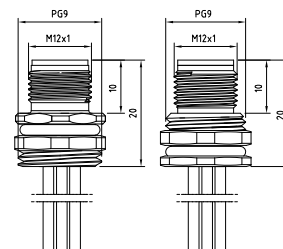
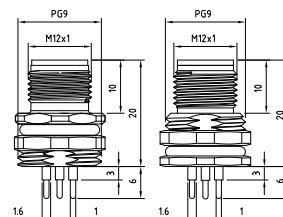
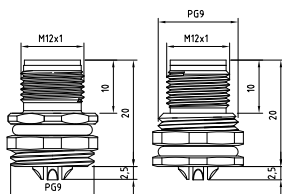
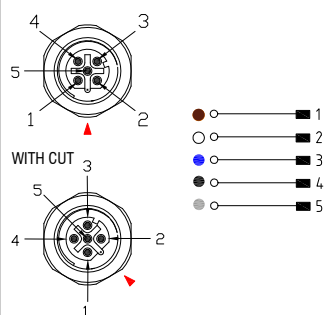


|                                                                                                                                                        |  |                                                    |  |                                                                                          |  |                                                                            |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------|--|------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------|--|
| <b>Technical drawing</b>                                                                                                                               |  |                                                    |  |                                                                                          |  |                                                                            |  |
| STD.<br><br>WITH CUT<br>                                                                                                                               |  |                                                    |  |                                                                                          |  |                                                                            |  |
| <b>Product description</b>                                                                                                                             |  |                                                    |  |                                                                                          |  |                                                                            |  |
| Connector type                                                                                                                                         |  | Circular connector panel mount                     |  | Circular connector panel mount                                                           |  | Circular connector panel mount                                             |  |
| Conforms to                                                                                                                                            |  | IEC 61076-2-101                                    |  | IEC 61076-2-101                                                                          |  | IEC 61076-2-101                                                            |  |
| Construction type                                                                                                                                      |  | M12 D-Coded                                        |  | M12 D-Coded                                                                              |  | M12 D-Coded                                                                |  |
| Description                                                                                                                                            |  | Circular connector M12 series,D-coded, panel mount |  | Circular connector M12 series,D-coded,panel mount,with contacts suitable for solder PCB. |  | Circular connector M12 series,D-coded,panel mount,with PVC soldered wires. |  |
| Part number                                                                                                                                            |  | <b>D-12FP5000-PG9</b> <b>D-12FR5000-PG9</b>        |  | <b>D-12FQ5000-PG9-CUT</b> <b>D-12FS5000-PG9-CUT</b>                                      |  | <b>D-12FP5A0C-PG9</b> <b>D-12FR5A0C-PG9</b>                                |  |
| Housing type                                                                                                                                           |  | Frontal panel side    Back panel side              |  | Frontal panel side    Back panel side                                                    |  | Frontal panel side    Back panel side                                      |  |
| Cable gland                                                                                                                                            |  | Female                                             |  | Female                                                                                   |  | Female                                                                     |  |
| Contacts type                                                                                                                                          |  | 5poles                                             |  | 5poles                                                                                   |  | 5poles                                                                     |  |
| Fixing thread                                                                                                                                          |  | PG9                                                |  | PG9 + CUT                                                                                |  | PG9                                                                        |  |
| Cut size                                                                                                                                               |  | -                                                  |  | 13.3mm                                                                                   |  | -                                                                          |  |
| <b>Technical data</b>                                                                                                                                  |  |                                                    |  |                                                                                          |  |                                                                            |  |
| Type of termination                                                                                                                                    |  | Contacts to solder wires                           |  | Contacts suitable for solder PCB                                                         |  | Contacts to solder wires                                                   |  |
| Contacts material                                                                                                                                      |  | Brass + Gold flash                                 |  | Brass + Gold flash                                                                       |  | Brass + Gold flash                                                         |  |
| Coupling nut type                                                                                                                                      |  | Brass + Nickel plated                              |  | Brass + Nickel plated                                                                    |  | Brass + Nickel plated                                                      |  |
| M12 coupling nut material                                                                                                                              |  | Brass + Nickel plated (SW17)                       |  | Brass + Nickel plated (SW17)                                                             |  | Brass + Nickel plated (SW17)                                               |  |
| M12 coupling nut torque                                                                                                                                |  | 0.4 N*m                                            |  | 0.4 N*m                                                                                  |  | 0.4 N*m                                                                    |  |
| Rated voltage                                                                                                                                          |  | 60V AC / DC                                        |  | 60V AC / DC                                                                              |  | 60V AC / DC                                                                |  |
| Rated current                                                                                                                                          |  | 4A                                                 |  | 4A                                                                                       |  | 4A                                                                         |  |
| O-ring material                                                                                                                                        |  | NBR                                                |  | NBR                                                                                      |  | NBR                                                                        |  |
| Cable type                                                                                                                                             |  | -                                                  |  | -                                                                                        |  | PVC                                                                        |  |
| No.Conductors / Section                                                                                                                                |  | -                                                  |  | -                                                                                        |  | 5 x 0.25mm <sup>2</sup>                                                    |  |
| Conductor colours                                                                                                                                      |  | -                                                  |  | -                                                                                        |  | Brown; White; Blue; Black;Grey                                             |  |
| Cable diameter                                                                                                                                         |  | -                                                  |  | -                                                                                        |  | -                                                                          |  |
| Cable length                                                                                                                                           |  | -                                                  |  | -                                                                                        |  | 0.3m                                                                       |  |
| <b>Packaging</b>                                                                                                                                       |  |                                                    |  |                                                                                          |  |                                                                            |  |
| Qty/Bag                                                                                                                                                |  | Not defined                                        |  | Not defined                                                                              |  | Not defined                                                                |  |
| <b>Other accessories options</b>                                                                                                                       |  |                                                    |  |                                                                                          |  |                                                                            |  |
| See accessories section                                                                                                                                |  |                                                    |  |                                                                                          |  |                                                                            |  |
| <b>Notes:</b><br>Connectors available with different features:<br>See the general features and codification scheme page<br>See the cables list section |  |                                                    |  |                                                                                          |  |                                                                            |  |



### Technical drawing

STD.



### Product description

|                   |                                                    |                       |                                                                                          |                           |                                                                            |                       |
|-------------------|----------------------------------------------------|-----------------------|------------------------------------------------------------------------------------------|---------------------------|----------------------------------------------------------------------------|-----------------------|
| Connector type    | Circular connector panel mount                     |                       | Circular connector panel mount                                                           |                           | Circular connector panel mount                                             |                       |
| Conforms to       | IEC 61076-2-101                                    |                       | IEC 61076-2-101                                                                          |                           | IEC 61076-2-101                                                            |                       |
| Construction type | M12 D-Coded                                        |                       | M12 D-Coded                                                                              |                           | M12 D-Coded                                                                |                       |
| Description       | Circular connector M12 series,D-coded, panel mount |                       | Circular connector M12 series,D-coded,panel mount,with contacts suitable for solder PCB. |                           | Circular connector M12 series,D-coded,panel mount,with PVC soldered wires. |                       |
| Part number       | <b>D-12MP5000-PG9</b>                              | <b>D-12MR5000-PG9</b> | <b>D-12MQ5000-PG9-CUT</b>                                                                | <b>D-12MS5000-PG9-CUT</b> | <b>D-12MP5A0C-PG9</b>                                                      | <b>D-12MR5A0C-PG9</b> |
| Housing type      | Frontal panel side                                 | Back panel side       | Frontal panel side                                                                       | Back panel side           | Frontal panel side                                                         | Back panel side       |
| Cable gland       | Male                                               |                       | Male                                                                                     |                           | Male                                                                       |                       |
| Contacts type     | 5poles                                             |                       | 5poles                                                                                   |                           | 5poles                                                                     |                       |
| Fixing thread     | PG9                                                |                       | PG9 + CUT                                                                                |                           | PG9                                                                        |                       |
| Cut size          | -                                                  |                       | 13.3mm                                                                                   |                           | -                                                                          |                       |

### Technical data

|                           |                              |  |                                  |  |                                |  |
|---------------------------|------------------------------|--|----------------------------------|--|--------------------------------|--|
| Type of termination       | Contacts to solder wires     |  | Contacts suitable for solder PCB |  | Contacts to solder wires       |  |
| Contacts material         | Brass + Gold flash           |  | Brass + Gold flash               |  | Brass + Gold flash             |  |
| Coupling nut type         | Brass + Nickel plated        |  | Brass + Nickel plated            |  | Brass + Nickel plated          |  |
| M12 coupling nut material | Brass + Nickel plated (SW17) |  | Brass + Nickel plated (SW17)     |  | Brass + Nickel plated (SW17)   |  |
| M12 coupling nut torque   | 0.4 N*m                      |  | 0.4 N*m                          |  | 0.4 N*m                        |  |
| Rated voltage             | 60V AC / DC                  |  | 60V AC / DC                      |  | 60V AC / DC                    |  |
| Rated current             | 4A                           |  | 4A                               |  | 4A                             |  |
| O-ring material           | NBR                          |  | NBR                              |  | NBR                            |  |
| Cable type                | -                            |  | -                                |  | PVC                            |  |
| No.Conductors / Section   | -                            |  | -                                |  | 5 x 0.25mm <sup>2</sup>        |  |
| Conductor colours         | -                            |  | -                                |  | Brown; White; Blue; Black;Grey |  |
| Cable diameter            | -                            |  | -                                |  | -                              |  |
| Cable length              | -                            |  | -                                |  | 0.3m                           |  |

### Packaging

|         |             |             |             |
|---------|-------------|-------------|-------------|
| Qty/Bag | Not defined | Not defined | Not defined |
|---------|-------------|-------------|-------------|

### Other accessories options

See accessories section

### Notes:

Connectors available with different features:  
See the general features and codification scheme page

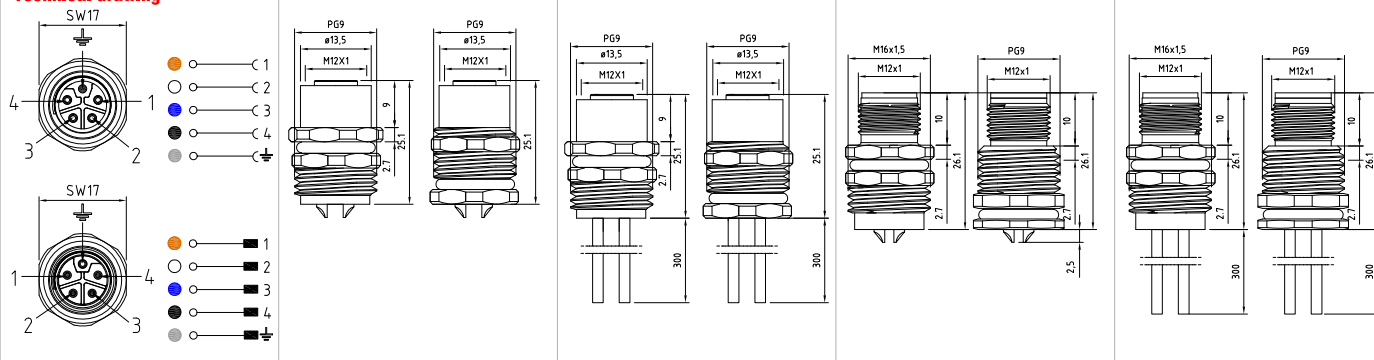


|                                  |                                                   |                       |                                                                   |                        |                                                   |                       |                                                                   |                        |                                                                   |
|----------------------------------|---------------------------------------------------|-----------------------|-------------------------------------------------------------------|------------------------|---------------------------------------------------|-----------------------|-------------------------------------------------------------------|------------------------|-------------------------------------------------------------------|
| <b>Technical drawing</b>         |                                                   |                       |                                                                   |                        |                                                   |                       |                                                                   |                        |                                                                   |
|                                  |                                                   |                       |                                                                   |                        |                                                   |                       |                                                                   |                        |                                                                   |
| <b>Product description</b>       |                                                   |                       |                                                                   |                        |                                                   |                       |                                                                   |                        |                                                                   |
| Connector type                   | Circular connector panel mount                    |                       | Circular connector panel mount                                    |                        | Circular connector panel mount                    |                       | Circular connector panel mount                                    |                        | Circular connector panel mount                                    |
| Conforms to                      | IEC 61076-2-111                                   |                       | IEC 61076-2-111                                                   |                        | IEC 61076-2-111                                   |                       | IEC 61076-2-111                                                   |                        | IEC 61076-2-111                                                   |
| Construction type                | M12 K-Coded                                       |                       | M12 K-Coded                                                       |                        | M12 K-Coded                                       |                       | M12 K-Coded                                                       |                        | M12 K-Coded                                                       |
| Description                      | Circular connector M12 series K-coded,panel mount |                       | Circular connector M12 series panel mount with PVC soldered wires |                        | Circular connector M12 series K-coded,panel mount |                       | Circular connector M12 series panel mount with PVC soldered wires |                        | Circular connector M12 series panel mount with PVC soldered wires |
| Part number                      | <b>K-12FP5000-PG9</b>                             | <b>K-12FR5000-PG9</b> | <b>K-12FP5460C-PG9</b>                                            | <b>K-12FR5460C-PG9</b> | <b>K-12MP5000-PG9</b>                             | <b>K-12MR5000-PG9</b> | <b>K-12MP5460C-PG9</b>                                            | <b>K-12MR5460C-PG9</b> |                                                                   |
| Housing type                     | Frontal panel side                                | Back panel side       | Frontal panel side                                                | Back panel side        | Frontal panel side                                | Back panel side       | Frontal panel side                                                | Back panel side        |                                                                   |
| Contacts type                    | Female                                            |                       | Female                                                            |                        | Male                                              |                       | Male                                                              |                        |                                                                   |
| Number of contacts               | 4poles + P.E.                                     |                       | 4poles + P.E.                                                     |                        | 4poles + P.E.                                     |                       | 4poles + P.E.                                                     |                        |                                                                   |
| Fixing thread                    | PG9                                               |                       | PG9                                                               |                        | PG9                                               |                       | PG9                                                               |                        |                                                                   |
| Cut size                         | -                                                 |                       | -                                                                 |                        | -                                                 |                       | -                                                                 |                        |                                                                   |
| <b>Technical data</b>            |                                                   |                       |                                                                   |                        |                                                   |                       |                                                                   |                        |                                                                   |
| Type of termination              | Contacts to solder wires                          |                       | Contacts to solder wires                                          |                        | Contacts to solder wires                          |                       | Contacts to solder wires                                          |                        | Contacts to solder wires                                          |
| Contacts material                | Brass+Gold flash                                  |                       | Brass+Gold flash                                                  |                        | Brass+Gold flash                                  |                       | Brass+Gold flash                                                  |                        | Brass+Gold flash                                                  |
| Housing material                 | Brass+Nickel plated                               |                       | Brass+Nickel plated                                               |                        | Brass+Nickel plated                               |                       | Brass+Nickel plated                                               |                        | Brass+Nickel plated                                               |
| Mobile coupling nut material     | Brass+Nickel plated (SW17)                        |                       | Brass+Nickel plated (SW17)                                        |                        | Brass+Nickel plated (SW17)                        |                       | Brass+Nickel plated (SW17)                                        |                        | Brass+Nickel plated (SW17)                                        |
| M12 coupling nut torque          | 0.4 N*m                                           |                       | 0.4 N*m                                                           |                        | 0.4 N*m                                           |                       | 0.4 N*m                                                           |                        | 0.4 N*m                                                           |
| Rated voltage                    | 630V AC                                           |                       | 630V AC                                                           |                        | 630V AC                                           |                       | 630V AC                                                           |                        | 630V AC                                                           |
| Rated current                    | 12A                                               |                       | 12A                                                               |                        | 12A                                               |                       | 12A                                                               |                        | 12A                                                               |
| O-ring material                  | NBR                                               |                       | NBR                                                               |                        | NBR                                               |                       | NBR                                                               |                        | NBR                                                               |
| Cable type                       | -                                                 |                       | PVC                                                               |                        | -                                                 |                       | PVC                                                               |                        |                                                                   |
| No.Conductors / Section          | -                                                 |                       | 4x1.5mm²                                                          |                        | -                                                 |                       | 4x1.5mm²                                                          |                        |                                                                   |
| Conductor colours                | -                                                 |                       | Bk 1; Bk 2; Bk 3; Bk 4; Yellow/Green                              |                        | -                                                 |                       | Bk 1; Bk 2; Bk 3; Bk 4; Yellow/Green                              |                        |                                                                   |
| Cable diameter                   | -                                                 |                       | -                                                                 |                        | -                                                 |                       | -                                                                 |                        |                                                                   |
| Cable length                     | -                                                 |                       | 0.3m                                                              |                        | -                                                 |                       | 0.3m                                                              |                        |                                                                   |
| <b>Packaging</b>                 |                                                   |                       |                                                                   |                        |                                                   |                       |                                                                   |                        |                                                                   |
| Qty/Bag                          | Not defined                                       |                       | Not defined                                                       |                        | Not defined                                       |                       | Not defined                                                       |                        | Not defined                                                       |
| <b>Other accessories options</b> |                                                   |                       |                                                                   |                        |                                                   |                       |                                                                   |                        |                                                                   |
| See accessories section          |                                                   |                       |                                                                   |                        |                                                   |                       |                                                                   |                        |                                                                   |
| <b>Notes:</b>                    |                                                   |                       |                                                                   |                        |                                                   |                       |                                                                   |                        |                                                                   |





### Technical drawing



### Product description

|                    |                                                   |                 |                                                                   |                 |                                                   |                 |                                                                   |                 |
|--------------------|---------------------------------------------------|-----------------|-------------------------------------------------------------------|-----------------|---------------------------------------------------|-----------------|-------------------------------------------------------------------|-----------------|
| Connector type     | Circular connector panel mount                    |                 | Circular connector panel mount                                    |                 | Circular connector panel mount                    |                 | Circular connector panel mount                                    |                 |
| Conforms to        | IEC 61076-2-111                                   |                 | IEC 61076-2-111                                                   |                 | IEC 61076-2-111                                   |                 | IEC 61076-2-111                                                   |                 |
| Construction type  | M12 L-Coded                                       |                 | M12 L-Coded                                                       |                 | M12 L-Coded                                       |                 | M12 L-Coded                                                       |                 |
| Description        | Circular connector M12 series L-coded,panel mount |                 | Circular connector M12 series panel mount with PVC soldered wires |                 | Circular connector M12 series L-coded,panel mount |                 | Circular connector M12 series panel mount with PVC soldered wires |                 |
| Part number        | L-12FP5000-PG9                                    | L-12FR5000-PG9  | L-12FP5730C-PG9                                                   | L-12FR5730C-PG9 | L-12MP5000-PG9                                    | L-12MR5000-PG9  | L-12MP5730C-PG9                                                   | L-12MR5730C-PG9 |
| Housing type       | Frontal panel side                                | Back panel side | Frontal panel side                                                | Back panel side | Frontal panel side                                | Back panel side | Frontal panel side                                                | Back panel side |
| Contacts type      | Female                                            |                 | Female                                                            |                 | Male                                              |                 | Male                                                              |                 |
| Number of contacts | 4poles + F.E.                                     |                 | 4poles + F.E.                                                     |                 | 4poles + F.E.                                     |                 | 4poles + F.E.                                                     |                 |
| Fixing thread      | PG9                                               |                 | PG9                                                               |                 | PG9                                               |                 | PG9                                                               |                 |
| Cut size           | -                                                 |                 | -                                                                 |                 | -                                                 |                 | -                                                                 |                 |

### Technical data

|                              |                              |  |                                 |  |                              |  |                                 |  |
|------------------------------|------------------------------|--|---------------------------------|--|------------------------------|--|---------------------------------|--|
| Type of termination          | Contacts to solder wires     |  | Contacts to solder wires        |  | Contacts to solder wires     |  | Contacts to solder wires        |  |
| Contacts material            | Brass + Gold flash           |  | Brass + Gold flash              |  | Brass + Gold flash           |  | Brass + Gold flash              |  |
| Housing material             | Brass + Nickel plated        |  | Brass + Nickel plated           |  | Brass + Nickel plated        |  | Brass + Nickel plated           |  |
| Mobile coupling nut material | Brass + Nickel plated (SW17) |  | Brass + Nickel plated (SW17)    |  | Brass + Nickel plated (SW17) |  | Brass + Nickel plated (SW17)    |  |
| M12 coupling nut torque      | 0.4 N*m                      |  | 0.4 N*m                         |  | 0.4 N*m                      |  | 0.4 N*m                         |  |
| Rated voltage                | 63V DC                       |  | 63V DC                          |  | 63V DC                       |  | 63V DC                          |  |
| Rated current                | 16A                          |  | 16A                             |  | 16A                          |  | 16A                             |  |
| O-ring material              | NBR                          |  | NBR                             |  | NBR                          |  | NBR                             |  |
| Cable type                   | -                            |  | PVC                             |  | -                            |  | PVC                             |  |
| No.Conductors / Section      | -                            |  | 4x1.5mm <sup>2</sup>            |  | -                            |  | 4x1.5mm <sup>2</sup>            |  |
| Conductor colours            | -                            |  | Brown; White; Blue; Black; Grey |  | -                            |  | Brown; White; Blue; Black; Grey |  |
| Cable diameter               | -                            |  | -                               |  | -                            |  | -                               |  |
| Cable lenght                 | -                            |  | 0.3m                            |  | -                            |  | 0.3m                            |  |

### Packaging

|         |             |             |             |             |
|---------|-------------|-------------|-------------|-------------|
| Qty/Bag | Not defined | Not defined | Not defined | Not defined |
|---------|-------------|-------------|-------------|-------------|

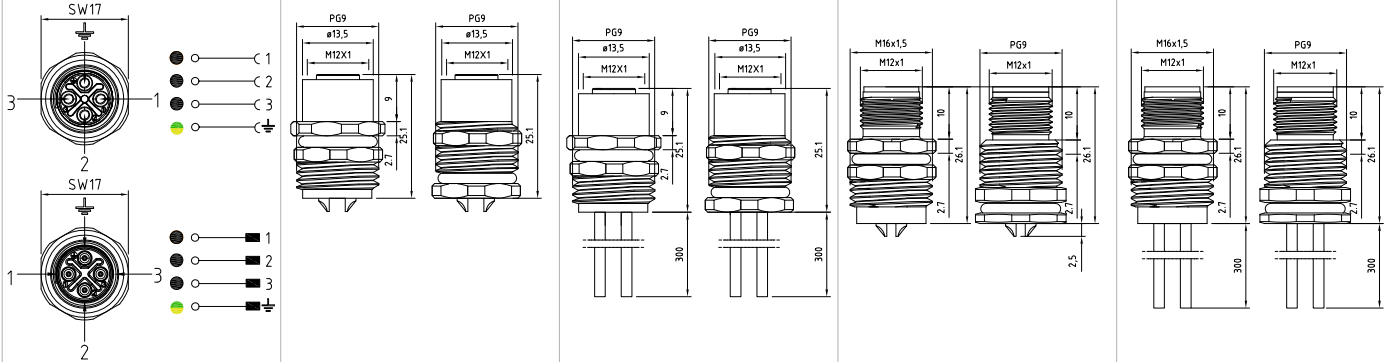
### Other accessories options

See accessories section

### Notes:



#### Technical drawing



#### Product description

|                    |                                                    |                       |                                                                   |                        |                                                    |                       |                                                                   |                        |
|--------------------|----------------------------------------------------|-----------------------|-------------------------------------------------------------------|------------------------|----------------------------------------------------|-----------------------|-------------------------------------------------------------------|------------------------|
| Connector type     | Circular connector panel mount                     |                       | Circular connector panel mount                                    |                        | Circular connector panel mount                     |                       | Circular connector panel mount                                    |                        |
| Conforms to        | IEC 61076-2-101                                    |                       | IEC 61076-2-101                                                   |                        | IEC 61076-2-101                                    |                       | IEC 61076-2-101                                                   |                        |
| Construction type  | M12 S-Coded                                        |                       | M12 S-Coded                                                       |                        | M12 S-Coded                                        |                       | M12 S-Coded                                                       |                        |
| Description        | Circular connector M12 series S-coded, panel mount |                       | Circular connector M12 series panel mount with TPO soldered wires |                        | Circular connector M12 series S-coded, panel mount |                       | Circular connector M12 series panel mount with TPO soldered wires |                        |
| Part number        | <b>S-12FP4000-PG9</b>                              | <b>S-12FR4000-PG9</b> | <b>S-12FP4810C-PG9</b>                                            | <b>S-12FR4810C-PG9</b> | <b>S-12MP4000-PG9</b>                              | <b>S-12MR4000-PG9</b> | <b>S-12MP4810C-PG9</b>                                            | <b>S-12MR4810C-PG9</b> |
| Housing type       | Frontal panel side                                 | Back panel side       | Frontal panel side                                                | Back panel side        | Frontal panel side                                 | Back panel side       | Frontal panel side                                                | Back panel side        |
| Contacts type      | Female                                             |                       | Female                                                            |                        | Male                                               |                       | Male                                                              |                        |
| Number of contacts | 3poles + P.E.                                      |                       | 3poles + P.E.                                                     |                        | 3poles + P.E.                                      |                       | 3poles + P.E.                                                     |                        |
| Fixing thread      | PG9                                                |                       | PG9                                                               |                        | PG9                                                |                       | PG9                                                               |                        |
| Cut size           | -                                                  |                       | -                                                                 |                        | -                                                  |                       | -                                                                 |                        |

#### Technical data

|                              |                              |  |                                         |  |                              |  |                                         |  |
|------------------------------|------------------------------|--|-----------------------------------------|--|------------------------------|--|-----------------------------------------|--|
| Type of termination          | Contacts to solder wires     |  | Contacts to solder wires                |  | Contacts to solder wires     |  | Contacts to solder wires                |  |
| Contacts material            | Brass + Gold flash           |  | Brass + Gold flash                      |  | Brass + Gold flash           |  | Brass + Gold flash                      |  |
| Housing material             | Brass + Nickel plated        |  | Brass + Nickel plated                   |  | Brass + Nickel plated        |  | Brass + Nickel plated                   |  |
| Mobile coupling nut material | Brass + Nickel plated (SW17) |  | Brass + Nickel plated (SW17)            |  | Brass + Nickel plated (SW17) |  | Brass + Nickel plated (SW17)            |  |
| M12 coupling nut torque      | 0.4 N*m                      |  | 0.4 N*m                                 |  | 0.4 N*m                      |  | 0.4 N*m                                 |  |
| Rated voltage                | 630V AC                      |  | 630V AC                                 |  | 630V AC                      |  | 630V AC                                 |  |
| Rated current                | 12A                          |  | 12A                                     |  | 12A                          |  | 12A                                     |  |
| O-ring material              | NBR                          |  | NBR                                     |  | NBR                          |  | NBR                                     |  |
| Cable type                   | -                            |  | TPO                                     |  | -                            |  | TPO                                     |  |
| No. Conductors / Section     | -                            |  | 4x1.5mm <sup>2</sup>                    |  | -                            |  | 4x1.5mm <sup>2</sup>                    |  |
| Conductor colours            | -                            |  | Black 1; Black 2; Black 3; Yellow/Green |  | -                            |  | Black 1; Black 2; Black 3; Yellow/Green |  |
| Cable diameter               | -                            |  | -                                       |  | -                            |  | -                                       |  |
| Cable length                 | -                            |  | 0.3m                                    |  | -                            |  | 0.3m                                    |  |

#### Packaging

|         |             |             |  |  |
|---------|-------------|-------------|--|--|
| Qty/Bag | Not defined | Not defined |  |  |
|---------|-------------|-------------|--|--|

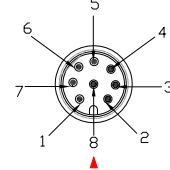
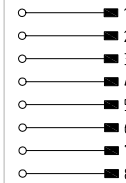
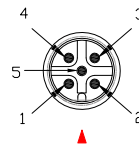
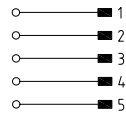
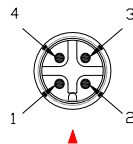
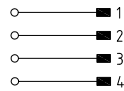
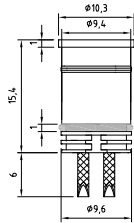
#### Other accessories options

See accessories section

#### Notes:



#### Technical drawing



#### Product description

|                            |                                                            |                                                            |                                                            |
|----------------------------|------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|
| Connector type             | Internal core                                              | Internal core                                              | Internal core                                              |
| Conforms to                | IEC 61076-2-101                                            | IEC 61076-2-101                                            | IEC 61076-2-101                                            |
| Construction type          | M12 A-Coded                                                | M12 A-Coded                                                | M12 A-Coded                                                |
| Description                | Internal core of circular connector M12 series,panel mount | Internal core of circular connector M12 series,panel mount | Internal core of circular connector M12 series,panel mount |
| Part number                | <b>12MN4000</b>                                            | <b>12MN5000</b>                                            | <b>12MN8000</b>                                            |
| Internal core housing type | Connector panel mount                                      | Connector panel mount                                      | Connector panel mount                                      |
| Contacts type              | Male                                                       | Male                                                       | Male                                                       |
| Number of contacts         | 4poles                                                     | 5poles                                                     | 8poles                                                     |
|                            |                                                            |                                                            |                                                            |
|                            |                                                            |                                                            |                                                            |

#### Technical data

|                                |                          |                          |                          |
|--------------------------------|--------------------------|--------------------------|--------------------------|
| Type of termination            | Contacts to solder wires | Contacts to solder wires | Contacts to solder wires |
| Contacts material              | Brass + Gold flash       | Brass + Gold flash       | Brass + Gold flash       |
| Internal core housing material | PA66                     | PA66                     | PA66                     |
| Rated voltage                  | 250V AC / DC             | 60V AC / DC              | 30V AC / DC              |
| Rated current                  | 4A                       | 4A                       | 2A                       |
| O-ring material                | NBR                      | NBR                      | NBR                      |
| Cable type                     | -                        | -                        | -                        |
| No.Conductors / Section        | -                        | -                        | -                        |
| Conductor colours              | -                        | -                        | -                        |
| Cable diameter                 | -                        | -                        | -                        |
| Cable length                   |                          |                          |                          |
|                                |                          |                          |                          |
|                                |                          |                          |                          |
|                                |                          |                          |                          |

#### Packaging

|         |             |             |             |
|---------|-------------|-------------|-------------|
| Qty/Bag | Not defined | Not defined | Not defined |
|---------|-------------|-------------|-------------|

#### Other accessories options

See accessories section

#### Notes:

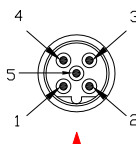
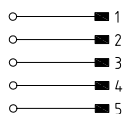
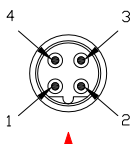
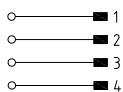
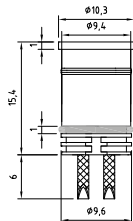
Connectors available with different features:  
See the general features and codification scheme page  
See the cables list section



|                                                                                                                                                        |                                                            |                                                            |                                                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|
| <b>Technical drawing</b>                                                                                                                               |                                                            |                                                            |                                                            |
|                                                                                                                                                        |                                                            |                                                            |                                                            |
| <b>Product description</b>                                                                                                                             |                                                            |                                                            |                                                            |
| Connector type                                                                                                                                         | Internal core                                              | Internal core                                              | Internal core                                              |
| Conforms to                                                                                                                                            | IEC 61076-2-101                                            | IEC 61076-2-101                                            | IEC 61076-2-101                                            |
| Construction type                                                                                                                                      | M12 A-Coded                                                | M12 A-Coded                                                | M12 A-Coded                                                |
| Description                                                                                                                                            | Internal core of circular connector M12 series,panel mount | Internal core of circular connector M12 series,panel mount | Internal core of circular connector M12 series,panel mount |
| Part number                                                                                                                                            | <b>12FN4000</b>                                            | <b>12FN5000</b>                                            | <b>12FN8000</b>                                            |
| Internal core housing type                                                                                                                             | Connector panel mount                                      | Connector panel mount                                      | Connector panel mount                                      |
| Contacts type                                                                                                                                          | Female                                                     | Female                                                     | Female                                                     |
| Number of contacts                                                                                                                                     | 4poles                                                     | 5poles                                                     | 8poles                                                     |
| <b>Technical data</b>                                                                                                                                  |                                                            |                                                            |                                                            |
| Type of termination                                                                                                                                    | Contacts to solder wires                                   | Contacts to solder wires                                   | Contacts to solder wires                                   |
| Contacts material                                                                                                                                      | Brass + Gold flash                                         | Brass + Gold flash                                         | Brass + Gold flash                                         |
| Internal core housing material                                                                                                                         | PA66                                                       | PA66                                                       | PA66                                                       |
| Rated voltage                                                                                                                                          | 250V AC / DC                                               | 60V AC / DC                                                | 30V AC / DC                                                |
| Rated current                                                                                                                                          | 4A                                                         | 4A                                                         | 2A                                                         |
| O-ring material                                                                                                                                        | NBR                                                        | NBR                                                        | NBR                                                        |
| Cable type                                                                                                                                             | -                                                          | -                                                          | -                                                          |
| No. Conductors / Section                                                                                                                               | -                                                          | -                                                          | -                                                          |
| Conductor colours                                                                                                                                      | -                                                          | -                                                          | -                                                          |
| Cable diameter                                                                                                                                         | -                                                          | -                                                          | -                                                          |
| Cable length                                                                                                                                           | -                                                          | -                                                          | -                                                          |
| <b>Packaging</b>                                                                                                                                       |                                                            |                                                            |                                                            |
| Qty/Bag                                                                                                                                                | Not defined                                                | Not defined                                                | Not defined                                                |
| <b>Other accessories options</b>                                                                                                                       |                                                            |                                                            |                                                            |
| See accessories section                                                                                                                                |                                                            |                                                            |                                                            |
| <b>Notes:</b><br>Connectors available with different feautres:<br>See the general features and codification scheme page<br>See the cables list section |                                                            |                                                            |                                                            |



#### Technical drawing



#### Product description

|                            |                                                                    |                                                                    |  |
|----------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|--|
| Connector type             | Internal core                                                      | Internal core                                                      |  |
| Conforms to                | IEC 61076-2-101                                                    | IEC 61076-2-101                                                    |  |
| Construction type          | M12 B-Coded                                                        | M12 B-Coded                                                        |  |
| Description                | Internal core of circular connector M12 series,B-coded,panel mount | Internal core of circular connector M12 series,B-coded,panel mount |  |
| Part number                | <b>B-12MN4000</b>                                                  | <b>B-12MN5000</b>                                                  |  |
| Internal core housing type | Connector panel mount                                              | Connector panel mount                                              |  |
| Contacts type              | Male                                                               | Male                                                               |  |
| Number of contacts         | 4poles                                                             | 5poles                                                             |  |
|                            |                                                                    |                                                                    |  |
|                            |                                                                    |                                                                    |  |

#### Technical data

|                                |                          |                          |  |
|--------------------------------|--------------------------|--------------------------|--|
| Type of termination            | Contacts to solder wires | Contacts to solder wires |  |
| Contacts material              | Brass + Gold flash       | Brass + Gold flash       |  |
| Internal core housing material | PA66                     | PA66                     |  |
| Rated voltage                  | 250V AC / DC             | 60V AC / DC              |  |
| Rated current                  | 4A                       | 4A                       |  |
| O-ring material                | NBR                      | NBR                      |  |
| Cable type                     | -                        | -                        |  |
| No.Conductors / Section        | -                        | -                        |  |
| Conductor colours              | -                        | -                        |  |
| Cable diameter                 | -                        | -                        |  |
| Cable length                   |                          |                          |  |
|                                |                          |                          |  |
|                                |                          |                          |  |

#### Packaging

|         |             |             |  |
|---------|-------------|-------------|--|
| Qty/Bag | Not defined | Not defined |  |
|---------|-------------|-------------|--|

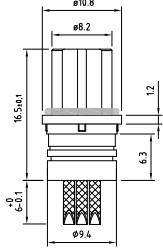
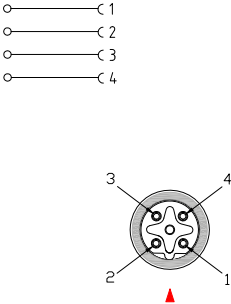
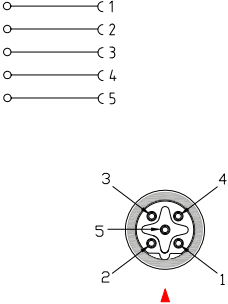
#### Other accessories options

See accessories section

#### Notes:

Connectors available with different features:  
See the general features and codification scheme page  
See the cables list section



|                                                                                                                                                        |                                                                    |                                                                                   |                                                                                    |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--|
| <b>Technical drawing</b>                                              |                                                                    |  |  |  |
| <b>Product description</b>                                                                                                                             |                                                                    |                                                                                   |                                                                                    |  |
| Connector type                                                                                                                                         | Internal core                                                      | Internal core                                                                     |                                                                                    |  |
| Conforms to                                                                                                                                            | IEC 61076-2-101                                                    | IEC 61076-2-101                                                                   |                                                                                    |  |
| Construction type                                                                                                                                      | M12 B-Coded                                                        | M12 B-Coded                                                                       |                                                                                    |  |
| Description                                                                                                                                            | Internal core of circular connector M12 series,B-coded,panel mount | Internal core of circular connector M12 series,B-coded,panel mount                |                                                                                    |  |
| Part number                                                                                                                                            | <b>B-12FN4000</b>                                                  | <b>B-12FN5000</b>                                                                 |                                                                                    |  |
| Internal core housing type                                                                                                                             | Connector panel mount                                              | Connector panel mount                                                             |                                                                                    |  |
| Contacts type                                                                                                                                          | Female                                                             | Female                                                                            |                                                                                    |  |
| Number of contacts                                                                                                                                     | 4poles                                                             | 5poles                                                                            |                                                                                    |  |
|                                                                                                                                                        |                                                                    |                                                                                   |                                                                                    |  |
| <b>Technical data</b>                                                                                                                                  |                                                                    |                                                                                   |                                                                                    |  |
| Type of termination                                                                                                                                    | Contacts to solder wires                                           | Contacts to solder wires                                                          |                                                                                    |  |
| Contacts material                                                                                                                                      | Brass + Gold flash                                                 | Brass + Gold flash                                                                |                                                                                    |  |
| Internal core housing material                                                                                                                         | PA66                                                               | PA66                                                                              |                                                                                    |  |
| Rated voltage                                                                                                                                          | 250V AC / DC                                                       | 60V AC / DC                                                                       |                                                                                    |  |
| Rated current                                                                                                                                          | 4A                                                                 | 4A                                                                                |                                                                                    |  |
| O-ring material                                                                                                                                        | NBR                                                                | NBR                                                                               |                                                                                    |  |
| Cable type                                                                                                                                             | -                                                                  | -                                                                                 |                                                                                    |  |
| No. Conductors / Section                                                                                                                               | -                                                                  | -                                                                                 |                                                                                    |  |
| Conductor colours                                                                                                                                      | -                                                                  | -                                                                                 |                                                                                    |  |
| Cable diameter                                                                                                                                         | -                                                                  | -                                                                                 |                                                                                    |  |
| Cable length                                                                                                                                           | -                                                                  | -                                                                                 |                                                                                    |  |
|                                                                                                                                                        |                                                                    |                                                                                   |                                                                                    |  |
|                                                                                                                                                        |                                                                    |                                                                                   |                                                                                    |  |
|                                                                                                                                                        |                                                                    |                                                                                   |                                                                                    |  |
| <b>Packaging</b>                                                                                                                                       |                                                                    |                                                                                   |                                                                                    |  |
| Qty/Bag                                                                                                                                                | Not defined                                                        | Not defined                                                                       |                                                                                    |  |
| <b>Other accessories options</b>                                                                                                                       |                                                                    |                                                                                   |                                                                                    |  |
| See accessories section                                                                                                                                |                                                                    |                                                                                   |                                                                                    |  |
| <b>Notes:</b><br>Connectors available with different feautres:<br>See the general features and codification scheme page<br>See the cables list section |                                                                    |                                                                                   |                                                                                    |  |

**Notes:**

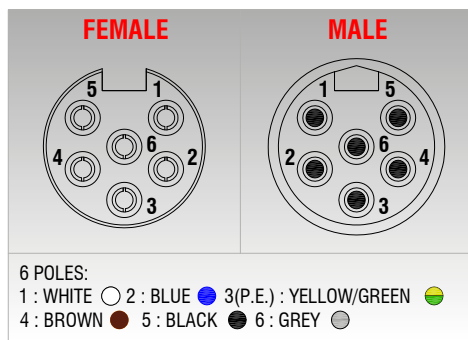
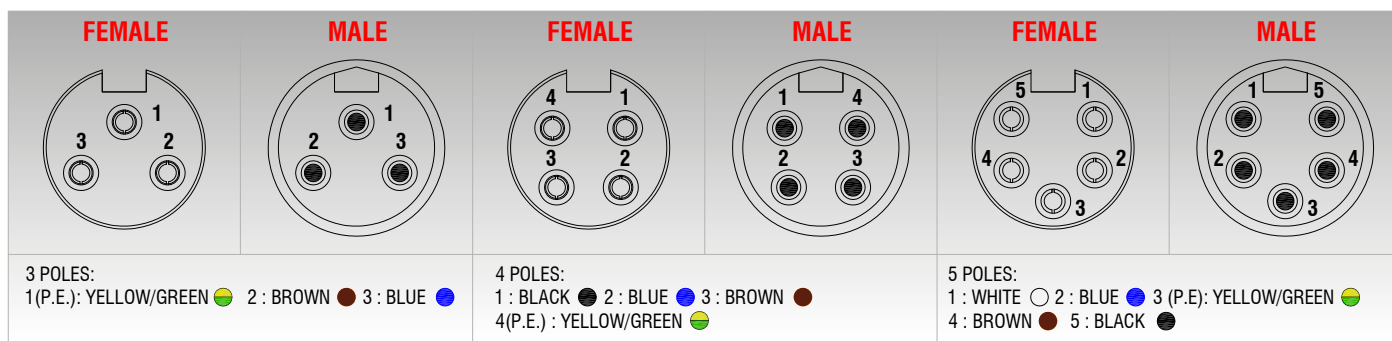
This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.





**7/8 " CIRCULAR CONNECTORS**





## • GENERAL FEATURES OF FIELD ATTACHABLE CONNECTORS:

**Cable Gland :**  
PG11 : Ø CABLE 6-10mm.

**Conductor cross section :**  
max. 1.50mm²(16AWG).

**Fixing system :**  
7/8" coupling nut.

**Max. screw torque IEC60947-1 :**  
Contact screw torque 0.4 N\*m.  
7/8" coupling nut torque 0.8 N\*m.

**Type of terminations :**  
Screw.

**Contact material and treatment :**  
Brass + Gold flash.

**Housing material :**  
PA66.

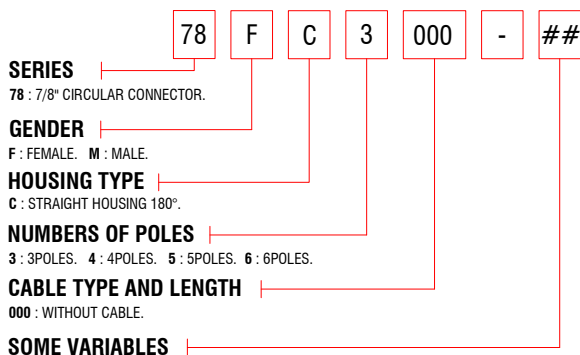
**Internal core material :**  
PVC.

**Coupling nut material :**  
Brass + Nickel plated.  
Stainless steel AISI304(upon request).  
Stainless steel AISI316(upon request).

**Flammability resistance :**  
V2 - Standard.

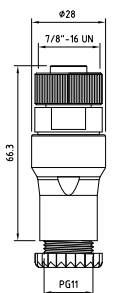
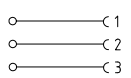
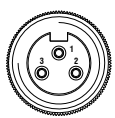
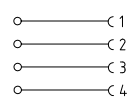
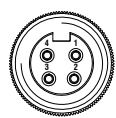
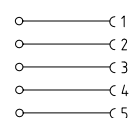
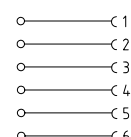
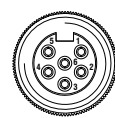
**Protection class :**  
IP65/67 (assembled).

**Operating temperature :**  
-40°C +90°C.



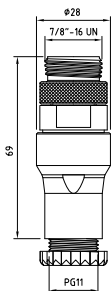
HN : HEXAGONAL 7/8" COUPLING NUT. H : HEXAGONAL CABLE GLAND INOX : 7/8" COUPLING NUT IN STAINLESS STEEL(AISI304).  
IN316 : 7/8" COUPLING NUT IN STAINLESS STEEL(AISI316). Y : WITHOUT H.T.P.LOGO.



|                                                                                                                         |                                                                                                                                                                        |                                                                                                                                                                        |                                                                                                                                                                           |                                                                                                                                                                            |
|-------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Technical drawing</b>               |                                                                                                                                                                        |                                                                                                                                                                        |                                                                                                                                                                           |                                                                                                                                                                            |
|                                                                                                                         | <br> | <br> | <br> | <br> |
| <b>Product description</b>                                                                                              |                                                                                                                                                                        |                                                                                                                                                                        |                                                                                                                                                                           |                                                                                                                                                                            |
| Connector type                                                                                                          | Circular connector field attachable                                                                                                                                    | Circular connector field attachable                                                                                                                                    | Circular connector field attachable                                                                                                                                       | Circular connector field attachable                                                                                                                                        |
| Conforms to                                                                                                             | --                                                                                                                                                                     | --                                                                                                                                                                     | --                                                                                                                                                                        | --                                                                                                                                                                         |
| Construction type                                                                                                       | 7/8"-16 UN                                                                                                                                                             | 7/8"-16 UN                                                                                                                                                             | 7/8"-16 UN                                                                                                                                                                | 7/8"-16 UN                                                                                                                                                                 |
| Part number                                                                                                             | <b>78FC3000</b>                                                                                                                                                        | <b>78FC4000</b>                                                                                                                                                        | <b>78FC5000</b>                                                                                                                                                           | <b>78FC6000</b>                                                                                                                                                            |
| Housing type                                                                                                            | Straight 180°                                                                                                                                                          | Straight 180°                                                                                                                                                          | Straight 180°                                                                                                                                                             | Straight 180°                                                                                                                                                              |
| Cable gland                                                                                                             | CIRCULAR flower                                                                                                                                                        | CIRCULAR flower                                                                                                                                                        | CIRCULAR flower                                                                                                                                                           | CIRCULAR flower                                                                                                                                                            |
| Description                                                                                                             | Circular connector 7/8" series field attachable                                                                                                                        | Circular connector 7/8" series field attachable                                                                                                                        | Circular connector 7/8" series field attachable                                                                                                                           | Circular connector 7/8" series field attachable                                                                                                                            |
| Contacts type                                                                                                           | Female                                                                                                                                                                 | Female                                                                                                                                                                 | Female                                                                                                                                                                    | Female                                                                                                                                                                     |
| Number of contacts                                                                                                      | 3poles (2p. + P.E.)                                                                                                                                                    | 4poles (3p. + P.E.)                                                                                                                                                    | 5poles (4p. + P.E.)                                                                                                                                                       | 6poles (5p. + P.E.)                                                                                                                                                        |
| Housing colour                                                                                                          | Black                                                                                                                                                                  | Black                                                                                                                                                                  | Black                                                                                                                                                                     | Black                                                                                                                                                                      |
| <b>Technical data</b>                                                                                                   |                                                                                                                                                                        |                                                                                                                                                                        |                                                                                                                                                                           |                                                                                                                                                                            |
| Type of termination                                                                                                     | Screw contacts                                                                                                                                                         | Screw contacts                                                                                                                                                         | Screw contacts                                                                                                                                                            | Screw contacts                                                                                                                                                             |
| Contact screw torque                                                                                                    | 0.4 N*m                                                                                                                                                                | 0.4 N*m                                                                                                                                                                | 0.4 N*m                                                                                                                                                                   | 0.4 N*m                                                                                                                                                                    |
| Contacts material                                                                                                       | Brass + Gold flash                                                                                                                                                     | Brass + Gold flash                                                                                                                                                     | Brass + Gold flash                                                                                                                                                        | Brass + Gold flash                                                                                                                                                         |
| Coupling nut type                                                                                                       | Knurl round                                                                                                                                                            | Knurl round                                                                                                                                                            | Knurl round                                                                                                                                                               | Knurl round                                                                                                                                                                |
| 7/8" coupling nut material                                                                                              | Brass + Nickel plated                                                                                                                                                  | Brass + Nickel plated                                                                                                                                                  | Brass + Nickel plated                                                                                                                                                     | Brass + Nickel plated                                                                                                                                                      |
| 7/8" coupling nut torque                                                                                                | 0.8 N*m                                                                                                                                                                | 0.8 N*m                                                                                                                                                                | 0.8 N*m                                                                                                                                                                   | 0.8 N*m                                                                                                                                                                    |
| Rated voltage                                                                                                           | 300V AC / DC                                                                                                                                                           | 300V AC / DC                                                                                                                                                           | 300V AC / DC                                                                                                                                                              | 300V AC / DC                                                                                                                                                               |
| Rated current                                                                                                           | 12A                                                                                                                                                                    | 9A                                                                                                                                                                     | 9A                                                                                                                                                                        | 9A                                                                                                                                                                         |
| Temperature range                                                                                                       | -40°C + 90°C                                                                                                                                                           | -40°C + 90°C                                                                                                                                                           | -40°C + 90°C                                                                                                                                                              | -40°C + 90°C                                                                                                                                                               |
| O-ring material                                                                                                         | NBR                                                                                                                                                                    | NBR                                                                                                                                                                    | NBR                                                                                                                                                                       | NBR                                                                                                                                                                        |
| Suitable cable                                                                                                          | ø 6.5 - 9.5mm                                                                                                                                                          | ø 6.5 - 9.5mm                                                                                                                                                          | ø 6.5 - 9.5mm                                                                                                                                                             | ø 6.5 - 9.5mm                                                                                                                                                              |
|                                                                                                                         |                                                                                                                                                                        |                                                                                                                                                                        |                                                                                                                                                                           |                                                                                                                                                                            |
|                                                                                                                         |                                                                                                                                                                        |                                                                                                                                                                        |                                                                                                                                                                           |                                                                                                                                                                            |
|                                                                                                                         |                                                                                                                                                                        |                                                                                                                                                                        |                                                                                                                                                                           |                                                                                                                                                                            |
| <b>Packaging</b>                                                                                                        |                                                                                                                                                                        |                                                                                                                                                                        |                                                                                                                                                                           |                                                                                                                                                                            |
| Qty/Bag                                                                                                                 | 1 pc / bag                                                                                                                                                             | 1 pc / bag                                                                                                                                                             | 1 pc / bag                                                                                                                                                                | 1 pc / bag                                                                                                                                                                 |
| <b>Other accessories options</b>                                                                                        |                                                                                                                                                                        |                                                                                                                                                                        |                                                                                                                                                                           |                                                                                                                                                                            |
| See accessories section                                                                                                 |                                                                                                                                                                        |                                                                                                                                                                        |                                                                                                                                                                           |                                                                                                                                                                            |
| <b>Notes:</b><br>Connectors available with different features:<br>See the general features and codification scheme page |                                                                                                                                                                        |                                                                                                                                                                        |                                                                                                                                                                           |                                                                                                                                                                            |



#### Technical drawing



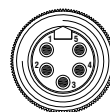
- — 1
- — 2
- — 3



- — 1
- — 2
- — 3
- — 4



- — 1
- — 2
- — 3
- — 4
- — 5



- — 1
- — 2
- — 3
- — 4
- — 5
- — 6



#### Product description

|                    |                                                 |                                                 |                                                 |                                                 |
|--------------------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| Connector type     | Circular connector field attachable             | Circular connector field attachable             | Circular connector field attachable             | Circular connector field attachable             |
| Conforms to        | --                                              | --                                              | --                                              | --                                              |
| Construction type  | 7/8"-16 UN                                      | 7/8"-16 UN                                      | 7/8"-16 UN                                      | 7/8"-16 UN                                      |
| Part number        | <b>78MC3000</b>                                 | <b>78MC4000</b>                                 | <b>78MC5000</b>                                 | <b>78MC6000</b>                                 |
| Housing type       | Straight 180°                                   | Straight 180°                                   | Straight 180°                                   | Straight 180°                                   |
| Cable gland        | CIRCULAR flower                                 | CIRCULAR flower                                 | CIRCULAR flower                                 | CIRCULAR flower                                 |
| Description        | Circular connector 7/8" series field attachable | Circular connector 7/8" series field attachable | Circular connector 7/8" series field attachable | Circular connector 7/8" series field attachable |
| Contacts type      | Male                                            | Male                                            | Male                                            | Male                                            |
| Number of contacts | 3poles (2p. + P.E.)                             | 4poles (3p. + P.E.)                             | 5poles (4p. + P.E.)                             | 6poles (5p. + P.E.)                             |
| Housing colour     | Black                                           | Black                                           | Black                                           | Black                                           |

#### Technical data

|                            |                       |                       |                       |                       |
|----------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Type of termination        | Screw contacts        | Screw contacts        | Screw contacts        | Screw contacts        |
| Contact screw torque       | 0.4 N*m               | 0.4 N*m               | 0.4 N*m               | 0.4 N*m               |
| Contacts material          | Brass + Gold flash    | Brass + Gold flash    | Brass + Gold flash    | Brass + Gold flash    |
| Coupling nut type          | Knurl round           | Knurl round           | Knurl round           | Knurl round           |
| 7/8" coupling nut material | Brass + Nickel plated | Brass + Nickel plated | Brass + Nickel plated | Brass + Nickel plated |
| 7/8" coupling nut torque   | 0.8 N*m               | 0.8 N*m               | 0.8 N*m               | 0.8 N*m               |
| Rated voltage              | 300V AC / DC          | 300V AC / DC          | 300V AC / DC          | 300V AC / DC          |
| Rated current              | 12A                   | 9A                    | 9A                    | 9A                    |
| Temperature range          | -40°C + 90°C          | -40°C + 90°C          | -40°C + 90°C          | -40°C + 90°C          |
| O-ring material            | NBR                   | NBR                   | NBR                   | NBR                   |
| Suitable cable             | Ø 6.5 - 9.5mm         | Ø 6.5 - 9.5mm         | Ø 6.5 - 9.5mm         | Ø 6.5 - 9.5mm         |
|                            |                       |                       |                       |                       |
|                            |                       |                       |                       |                       |
|                            |                       |                       |                       |                       |

#### Packaging

|         |            |            |            |            |
|---------|------------|------------|------------|------------|
| Qty/Bag | 1 pc / bag | 1 pc / bag | 1 pc / bag | 1 pc / bag |
|---------|------------|------------|------------|------------|

#### Other accessories options

See accessories section

#### Notes:

Connectors available with different features:  
See the general features and codification scheme page

● **GENERAL FEATURES OF MOULDED CONNECTORS:**

**Conductor cross section :**  
1.50mm<sup>2</sup>(16AWG).

**Housing material :**  
Polypropylene.

**Operating temperature :**  
-40°C + 90°C.

**Fixing system :**  
7/8" coupling nut.

**Internal core material :**  
PVC.

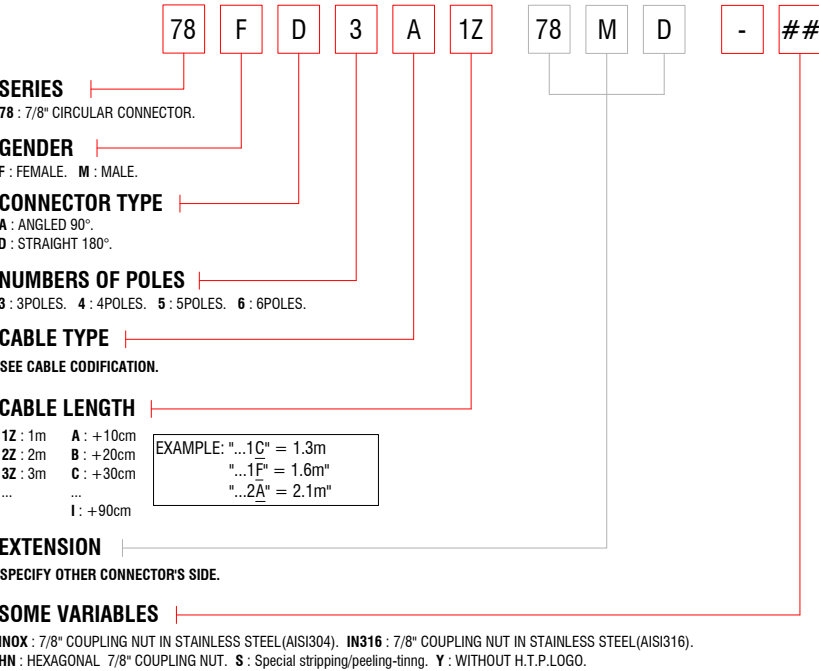
**Max. screw torque IEC60947-1**  
7/8" coupling nut torque 0.8 N\*m.

**Coupling nut material :**  
Brass + Nickel plated.  
Stainless steel AISI304(upon request).  
Stainless steel AISI316(upon request).

**Type of terminations :**  
Solder wires.

**Protection class :**  
IP 67.

**Contact material and treatment :**  
Brass + Gold flash.



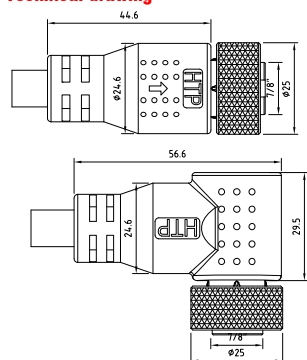
● **CABLE CODIFICATION:**

| Code | Material | Type of cable | Colour | Section             | No.core | Cable ø<br>mm ±0.3 | Temperature range °C |
|------|----------|---------------|--------|---------------------|---------|--------------------|----------------------|
| A    | PVC/PVC  | CEI2022       | Black  | 1.50mm <sup>2</sup> | 3       | ø 7.8mm            | -20°C / +80°C        |
|      |          |               |        |                     | 4       | ø 10.2mm           | -20°C / +80°C        |
|      |          |               |        |                     | 5       | ø 11mm             | -20°C / +80°C        |
| C    | PUR/PUR  |               | Black  | 1.50mm <sup>2</sup> | 3 *     | ø 7.8mm            | -40°C / +80°C        |
|      |          |               |        |                     | 4 *     | ø 10.2mm           | -40°C / +80°C        |
|      |          |               |        |                     | 5 *     | ø 11mm             | -40°C / +80°C        |

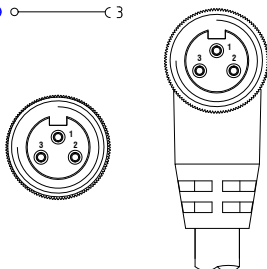
**\* = Cables with minimum quantity required.**



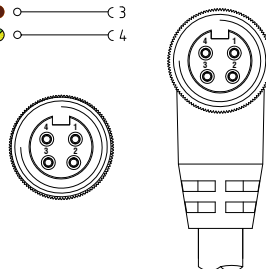
#### Technical drawing



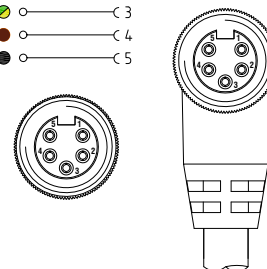
- C 1
- C 2
- C 3



- C 1
- C 2
- C 3
- C 4



- C 1
- C 2
- C 3
- C 4
- C 5



#### Product description

|                    |                                                   |                 |                                                   |                 |                                                   |                 |
|--------------------|---------------------------------------------------|-----------------|---------------------------------------------------|-----------------|---------------------------------------------------|-----------------|
| Connector type     | Circular connector with moulded cable             |                 | Circular connector with moulded cable             |                 | Circular connector with moulded cable             |                 |
| Conforms to        | --                                                |                 | --                                                |                 | --                                                |                 |
| Construction type  | 7/8"-16 UN                                        |                 | 7/8"-16 UN                                        |                 | 7/8"-16 UN                                        |                 |
| Description        | Circular connector 7/8" series with moulded cable |                 | Circular connector 7/8" series with moulded cable |                 | Circular connector 7/8" series with moulded cable |                 |
| Part number        | <b>78FD3A1Z</b>                                   | <b>78FA3A1Z</b> | <b>78FD4A1Z</b>                                   | <b>78FA4A1Z</b> | <b>78FD5A1Z</b>                                   | <b>78FA5A1Z</b> |
| Housing type       | Straight 180°                                     | Angled 90°      | Straight 180°                                     | Angled 90°      | Straight 180°                                     | Angled 90°      |
| Cable gland        | Moulded cable                                     |                 | Moulded cable                                     |                 | Moulded cable                                     |                 |
| Contacts type      | Female                                            |                 | Female                                            |                 | Female                                            |                 |
| Number of contacts | 3poles (2p. + P.E.)                               |                 | 4poles (3p. + P.E.)                               |                 | 5poles (4p. + P.E.)                               |                 |
| Housing colour     | Black                                             |                 | Black                                             |                 | Black                                             |                 |

#### Technical data

|                             |                               |  |                                   |  |                                          |  |
|-----------------------------|-------------------------------|--|-----------------------------------|--|------------------------------------------|--|
| Type of termination         | Contacts to solder wires      |  | Contacts to solder wires          |  | Contacts to solder wires                 |  |
| Contacts material           | Brass + Gold flash            |  | Brass + Gold flash                |  | Brass + Gold flash                       |  |
| Coupling nut type           | Knurl round                   |  | Knurl round                       |  | Knurl round                              |  |
| 7/8 " coupling nut material | Brass + Nickel plated         |  | Brass + Nickel plated             |  | Brass + Nickel plated                    |  |
| 7/8 " coupling nut torque   | 0.8 N*m                       |  | 0.8 N*m                           |  | 0.8 N*m                                  |  |
| Rated voltage               | 300V AC / DC (max.600V AC/DC) |  | 300V AC / DC (max.600V AC/DC)     |  | 300V AC / DC (max.600V AC/DC)            |  |
| Rated current               | 13A                           |  | 10A                               |  | 8A                                       |  |
| O-ring material             | NBR                           |  | NBR                               |  | NBR                                      |  |
| Cable type                  | PVC/PVC CEI2022               |  | PVC/PVC CEI2022                   |  | PVC/PVC CEI2022                          |  |
| Cable jacket colour         | Black                         |  | Black                             |  | Black                                    |  |
| No.Conductors / Section     | 3x1.50mm <sup>2</sup>         |  | 4x1.50mm <sup>2</sup>             |  | 5x1.50mm <sup>2</sup>                    |  |
| Conductor colours           | Yellow/green; Brown; Blue;    |  | Black; Blue; Brown; Yellow/green; |  | White; Blue; Yellow/green; Brown; Black; |  |
| Cable diameter              | ø7.8mm (±0.3)                 |  | ø10.2mm (±0.3)                    |  | ø11mm (±0.3)                             |  |
| Cable length                | 1m                            |  | 1m                                |  | 1m                                       |  |

#### Packaging

|         |            |            |            |
|---------|------------|------------|------------|
| Qty/Bag | 1 pc / bag | 1 pc / bag | 1 pc / bag |
|---------|------------|------------|------------|

#### Other accessories options

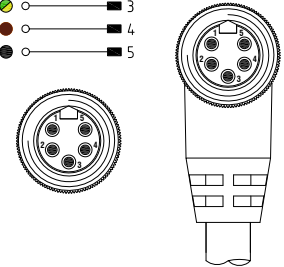
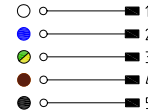
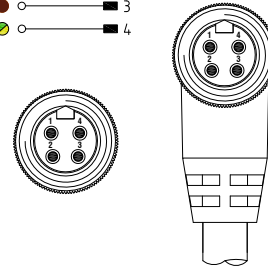
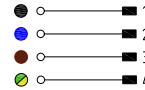
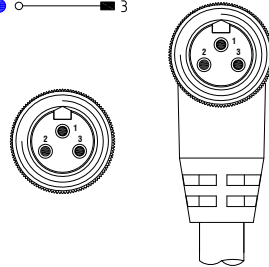
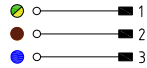
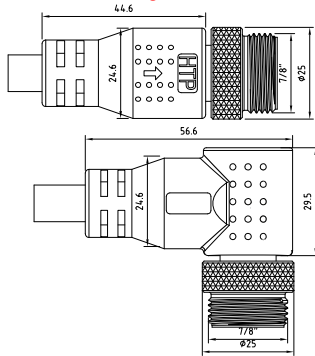
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#### Notes:

Connectors available with different features:  
See the general features and codification scheme page



#### Technical drawing



#### Product description

|                    |                                                   |                 |                                                   |                 |                                                   |                 |
|--------------------|---------------------------------------------------|-----------------|---------------------------------------------------|-----------------|---------------------------------------------------|-----------------|
| Connector type     | Circular connector with moulded cable             |                 | Circular connector with moulded cable             |                 | Circular connector with moulded cable             |                 |
| Conforms to        | --                                                |                 | --                                                |                 | --                                                |                 |
| Construction type  | 7/8"-16 UN                                        |                 | 7/8"-16 UN                                        |                 | 7/8"-16 UN                                        |                 |
| Description        | Circular connector 7/8" series with moulded cable |                 | Circular connector 7/8" series with moulded cable |                 | Circular connector 7/8" series with moulded cable |                 |
| Part number        | <b>78MD3A1Z</b>                                   | <b>78MA3A1Z</b> | <b>78MD4A1Z</b>                                   | <b>78MA4A1Z</b> | <b>78MD5A1Z</b>                                   | <b>78MA5A1Z</b> |
| Housing type       | Straight 180°                                     | Angled 90°      | Straight 180°                                     | Angled 90°      | Straight 180°                                     | Angled 90°      |
| Cable gland        | Moulded cable                                     |                 | Moulded cable                                     |                 | Moulded cable                                     |                 |
| Contacts type      | Male                                              |                 | Male                                              |                 | Male                                              |                 |
| Number of contacts | 3poles (2p. + P.E.)                               |                 | 4poles (3p. + P.E.)                               |                 | 5poles (4p. + P.E.)                               |                 |
| Housing colour     | Black                                             |                 | Black                                             |                 | Black                                             |                 |

#### Technical data

|                             |                               |  |                                   |  |                                          |  |
|-----------------------------|-------------------------------|--|-----------------------------------|--|------------------------------------------|--|
| Type of termination         | Contacts to solder wires      |  | Contacts to solder wires          |  | Contacts to solder wires                 |  |
| Contacts material           | Brass + Gold flash            |  | Brass + Gold flash                |  | Brass + Gold flash                       |  |
| Coupling nut type           | Knurl round                   |  | Knurl round                       |  | Knurl round                              |  |
| 7/8 " coupling nut material | Brass + Nickel plated         |  | Brass + Nickel plated             |  | Brass + Nickel plated                    |  |
| 7/8 " coupling nut torque   | 0.8 N*m                       |  | 0.8 N*m                           |  | 0.8 N*m                                  |  |
| Rated voltage               | 300V AC / DC (max.600V AC/DC) |  | 300V AC / DC (max.600V AC/DC)     |  | 300V AC / DC (max.600V AC/DC)            |  |
| Rated current               | 13A                           |  | 10A                               |  | 8A                                       |  |
| O-ring material             | -                             |  | -                                 |  | -                                        |  |
| Cable type                  | PVC/PVC CEI2022               |  | PVC/PVC CEI2022                   |  | PVC/PVC CEI2022                          |  |
| Cable jacket colour         | Black                         |  | Black                             |  | Black                                    |  |
| No.Conductors / Section     | 3x1.50mm <sup>2</sup>         |  | 4x1.50mm <sup>2</sup>             |  | 5x1.50mm <sup>2</sup>                    |  |
| Conductor colours           | Yellow/green; Brown; Blue;    |  | Black; Blue; Brown; Yellow/green; |  | White; Blue; Yellow/green; Brown; Black; |  |
| Cable diameter              | ø7.8mm (±0.3)                 |  | ø10.2mm (±0.3)                    |  | ø11mm (±0.3)                             |  |
| Cable length                | 1m                            |  | 1m                                |  | 1m                                       |  |

#### Packaging

|         |            |            |            |
|---------|------------|------------|------------|
| Qty/Bag | 1 pc / bag | 1 pc / bag | 1 pc / bag |
|---------|------------|------------|------------|

#### Other accessories options

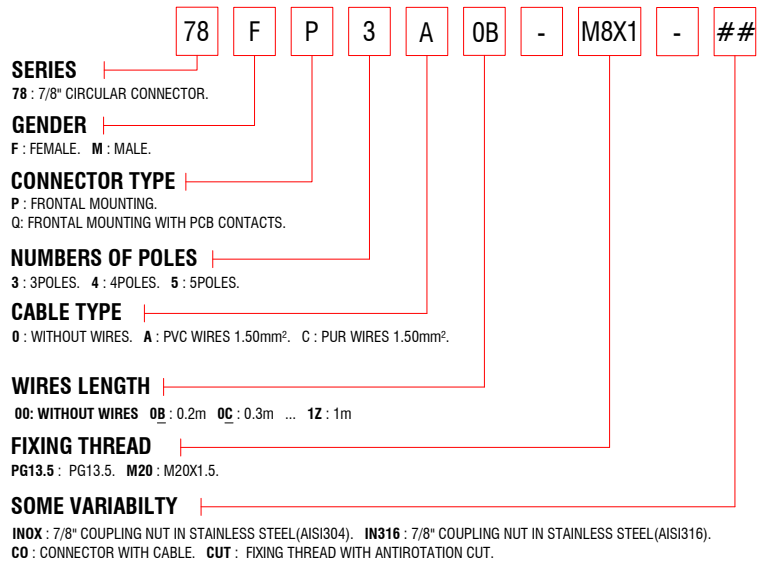
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#### Notes:

Connectors available with different features:  
See the general features and codification scheme page

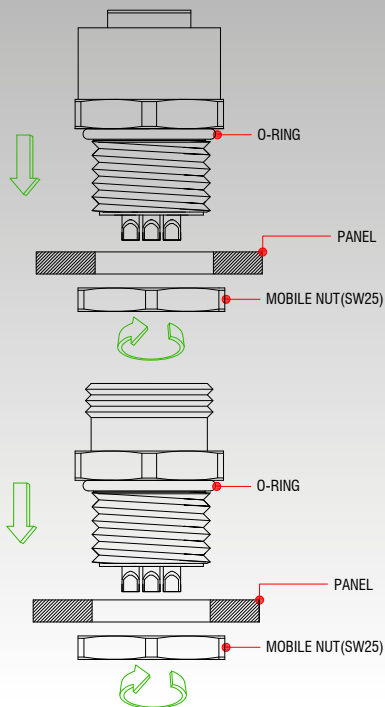
• GENERAL FEATURES PANEL MOUNT CONNECTORS:

|                                                                         |                                                                |                                                                                                                                               |                                                    |                                                 |
|-------------------------------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|-------------------------------------------------|
| <b>Conductor cross section :</b><br>1.50mm²(16AWG).                     | <b>Type of terminations :</b><br>Solder wires.<br>Solder PCB.  | <b>Housing material :</b><br>Brass + Nickel plated<br>Stainless Steel AISI304<br>(upon request).<br>Stainless Steel AISI316<br>(upon request) | <b>Internal core material :</b><br>PA66.           | <b>Operating temperature :</b><br>-40°C + 90°C. |
| <b>Fixing system :</b><br>7/8" coupling nut.                            | <b>Contact material and treatment :</b><br>Brass + Gold flash. |                                                                                                                                               | <b>Flammability resistance :</b><br>V2 - Standard. |                                                 |
| <b>Max. screw torque IEC60947-1</b><br>7/8" coupling nut torque 0.8 N*m |                                                                |                                                                                                                                               | <b>Protection class :</b><br>IP 67 (assembled).    |                                                 |



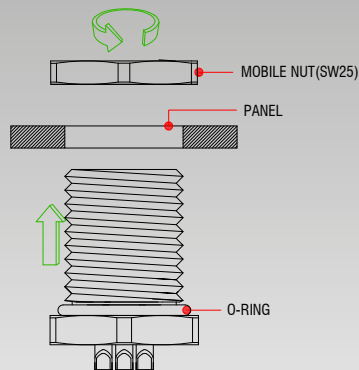
FRONT MOUNTING:

The type of mounting of the panel connector into the panel is defined with reference to the way the connector is mounted into the panel. In front mounting the mobile nut is in the back side towards the panel.

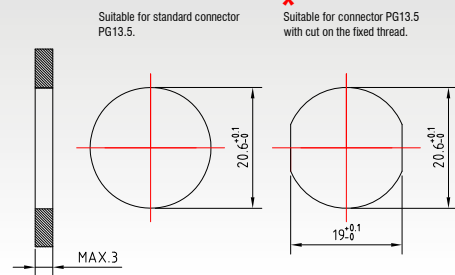


BACK MOUNTING:

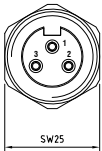
The type of mounting of the panel connector into the panel is defined with reference to the way the connector is mounted into the panel. In back mounting the mobile nut is in the front side towards the panel.



PANEL FEATURES:



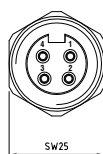


|                                                                                                                         |                                          |                                                                                |                                                                  |
|-------------------------------------------------------------------------------------------------------------------------|------------------------------------------|--------------------------------------------------------------------------------|------------------------------------------------------------------|
| <b>Technical drawing</b>               |                                          |                                                                                |                                                                  |
| <b>Product description</b>                                                                                              |                                          |                                                                                |                                                                  |
| Connector type                                                                                                          | Circular connector to panel              | Circular connector to panel                                                    | Circular connector to panel                                      |
| Conforms to                                                                                                             | -                                        | -                                                                              | -                                                                |
| Construction type                                                                                                       | 7/8"-16 UN                               | 7/8"-16 UN                                                                     | 7/8"-16 UN                                                       |
| Description                                                                                                             | Circular connector 7/8" series to PANEL. | Circular connector 7/8" series to PANEL with contacts suitable for solder PCB. | Circular connector 7/8" series to PANEL with PVC soldered wires. |
| Part number                                                                                                             | <b>78FP3000-PG13.5</b>                   | <b>78FQ3000-PG13.5</b>                                                         | <b>78FP3A0C-PG13.5</b>                                           |
| Mounting type                                                                                                           | Frontal side of the panel                | Frontal side of the panel                                                      | Frontal side of the panel                                        |
| Contacts type                                                                                                           | Female                                   | Female                                                                         | Female                                                           |
| Number of contacts                                                                                                      | 3poles                                   | 3poles                                                                         | 3poles                                                           |
| Fixing Thread                                                                                                           | PG13.5                                   | PG13.5                                                                         | PG13.5                                                           |
| <b>Technical data</b>                                                                                                   |                                          |                                                                                |                                                                  |
| Type of termination                                                                                                     | Contacts to solder wires                 | Contacts to solder for PCB                                                     | Contacts to solder wires                                         |
| Contacts material                                                                                                       | Brass + Gold flash                       | Brass + Gold flash                                                             | Brass + Gold flash                                               |
| Housing /coupling nut material                                                                                          | Brass + Nickel plated                    | Brass + Nickel plated                                                          | Brass + Nickel plated                                            |
| Mobile nut material(SW)                                                                                                 | Brass + Nickel plated (SW25)             | Brass + Nickel plated (SW25)                                                   | Brass + Nickel plated (SW25)                                     |
| 7/8" coupling nut torque                                                                                                | 0.8 N*m                                  | 0.8 N*m                                                                        | 0.8 N*m                                                          |
| Rated voltage                                                                                                           | 300V AC / DC (max.600V AC/DC)            | 300V AC / DC (max.600V AC/DC)                                                  | 300V AC / DC (max.600V AC/DC)                                    |
| Rated current                                                                                                           | 12A                                      | 12A                                                                            | 12A                                                              |
| O-ring material                                                                                                         | NBR                                      | NBR                                                                            | NBR                                                              |
| Cable type                                                                                                              | -                                        | -                                                                              | PVC                                                              |
| No.Conductors / Section                                                                                                 | -                                        | -                                                                              | 3 x 1.50mm <sup>2</sup>                                          |
| Conductor colours                                                                                                       | -                                        | -                                                                              | Yellow/green; Brown; Blue;                                       |
| Cable diameter                                                                                                          | -                                        | -                                                                              | -                                                                |
| Cable length                                                                                                            | -                                        | -                                                                              | 0.3m                                                             |
| <b>Packaging</b>                                                                                                        |                                          |                                                                                |                                                                  |
| Qty/Bag                                                                                                                 | Not defined                              | Not defined                                                                    | Not defined                                                      |
| <b>Other accessories options</b>                                                                                        |                                          |                                                                                |                                                                  |
| -                                                                                                                       |                                          |                                                                                |                                                                  |
| <b>Notes:</b><br>Connectors available with different feautres:<br>See the general features and codification scheme page |                                          |                                                                                |                                                                  |

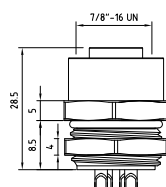




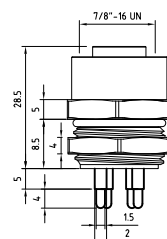
## Technical drawing



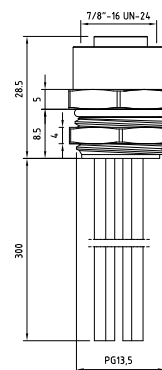
- — C 1
- — C 2
- — C 3
- — C 4



- — C 1
- — C 2
- — C 3
- — C 4



- ○ — C 1
- ○ — C 2
- ○ — C 3
- ○ — C 4



## Product description

|                    |                                          |                                                                                |                                                                  |
|--------------------|------------------------------------------|--------------------------------------------------------------------------------|------------------------------------------------------------------|
| Connector type     | Circular connector to panel              | Circular connector to panel                                                    | Circular connector to panel                                      |
| Conforms to        | -                                        | -                                                                              | -                                                                |
| Construction type  | 7/8"-16 UN                               | 7/8"-16 UN                                                                     | 7/8"-16 UN                                                       |
| Description        | Circular connector 7/8" series to PANEL. | Circular connector 7/8" series to PANEL with contacts suitable for solder PCB. | Circular connector 7/8" series to PANEL with PVC soldered wires. |
| Part number        | <b>78FP4000-PG13.5</b>                   | <b>78FQ4000-PG13.5</b>                                                         | <b>78FP4A0C-PG13.5</b>                                           |
| Mounting type      | Frontal side of the panel                | Frontal side of the panel                                                      | Frontal side of the panel                                        |
| Contacts type      | Female                                   | Female                                                                         | Female                                                           |
| Number of contacts | 4poles                                   | 4poles                                                                         | 4poles                                                           |
| Fixing Thread      | PG13.5                                   | PG13.5                                                                         | PG13.5                                                           |

## Technical data

|                                |                               |                               |                                   |
|--------------------------------|-------------------------------|-------------------------------|-----------------------------------|
| Type of termination            | Contacts to solder wires      | Contacts to solder for PCB    | Contacts to solder wires          |
| Contacts material              | Brass + Gold flash            | Brass + Gold flash            | Brass + Gold flash                |
| Housing /coupling nut material | Brass + Nickel plated         | Brass + Nickel plated         | Brass + Nickel plated             |
| Mobile nut material(SW)        | Brass + Nickel plated (SW25)  | Brass + Nickel plated (SW25)  | Brass + Nickel plated (SW25)      |
| 7/8" coupling nut torque       | 0.8 N*m                       | 0.8 N*m                       | 0.8 N*m                           |
| Rated voltage                  | 300V AC / DC (max.600V AC/DC) | 300V AC / DC (max.600V AC/DC) | 300V AC / DC (max.600V AC/DC)     |
| Rated current                  | 9A                            | 9A                            | 9A                                |
| O-ring material                | NBR                           | NBR                           | NBR                               |
| Cable type                     | -                             | -                             | PVC                               |
| No.Conductors / Section        | -                             | -                             | 4 x 1.50mm <sup>2</sup>           |
| Conductor colours              | -                             | -                             | Black; Blue; Brown; Yellow/green; |
| Cable diameter                 | -                             | -                             | -                                 |
| Cable length                   | -                             | -                             | 0.3m                              |

## Packaging

|         |             |             |             |
|---------|-------------|-------------|-------------|
| Qty/Bag | Not defined | Not defined | Not defined |
|---------|-------------|-------------|-------------|

## Other accessories options

|   |  |  |  |
|---|--|--|--|
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## Notes:

Connectors available with different features:  
See the general features and codification scheme page



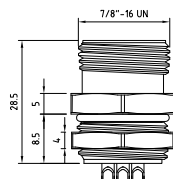
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|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------|--------------------------------------------------------------------------------|------------------------------------------------------------------|
| <b>Technical drawing</b>                                                                                                 |                                          |                                                                                |                                                                  |
|                                                                                                                          |                                          |                                                                                |                                                                  |
| <b>Product description</b>                                                                                               |                                          |                                                                                |                                                                  |
| Connector type                                                                                                           | Circular connector to panel              | Circular connector to panel                                                    | Circular connector to panel                                      |
| Conforms to                                                                                                              | -                                        | -                                                                              | -                                                                |
| Construction type                                                                                                        | 7/8"-16 UN                               | 7/8"-16 UN                                                                     | 7/8"-16 UN                                                       |
| Description                                                                                                              | Circular connector 7/8" series to PANEL. | Circular connector 7/8" series to PANEL with contacts suitable for solder PCB. | Circular connector 7/8" series to PANEL with PVC soldered wires. |
| Part number                                                                                                              | <b>78FP4000-PG13.5</b>                   | <b>78FQ5000-PG13.5</b>                                                         | <b>78FP5A0C-PG13.5</b>                                           |
| Mounting type                                                                                                            | Frontal side of the panel                | Frontal side of the panel                                                      | Frontal side of the panel                                        |
| Contacts type                                                                                                            | Female                                   | Female                                                                         | Female                                                           |
| Number of contacts                                                                                                       | 5poles                                   | 5poles                                                                         | 5poles                                                           |
| Fixing Thread                                                                                                            | PG13.5                                   | PG13.5                                                                         | PG13.5                                                           |
| <b>Technical data</b>                                                                                                    |                                          |                                                                                |                                                                  |
| Type of termination                                                                                                      | Contacts to solder wires                 | Contacts to solder for PCB                                                     | Contacts to solder wires                                         |
| Contacts material                                                                                                        | Brass + Gold flash                       | Brass + Gold flash                                                             | Brass + Gold flash                                               |
| Housing /coupling nut material                                                                                           | Brass + Nickel plated                    | Brass + Nickel plated                                                          | Brass + Nickel plated                                            |
| Mobile nut material(SW)                                                                                                  | Brass + Nickel plated (SW25)             | Brass + Nickel plated (SW25)                                                   | Brass + Nickel plated (SW25)                                     |
| 7/8 " coupling nut torque                                                                                                | 0.8 N*m                                  | 0.8 N*m                                                                        | 0.8 N*m                                                          |
| Rated voltage                                                                                                            | 300V AC / DC (max.600V AC/DC)            | 300V AC / DC (max.600V AC/DC)                                                  | 300V AC / DC (max.600V AC/DC)                                    |
| Rated current                                                                                                            | 9A                                       | 9A                                                                             | 9A                                                               |
| O-ring material                                                                                                          | NBR                                      | NBR                                                                            | NBR                                                              |
| Cable type                                                                                                               | -                                        | -                                                                              | PVC                                                              |
| No. Conductors / Section                                                                                                 | -                                        | -                                                                              | 5 x 1.50mm <sup>2</sup>                                          |
| Conductor colours                                                                                                        | -                                        | -                                                                              | White; Blue; Yellow/green; Brown; Black;                         |
| Cable diameter                                                                                                           | -                                        | -                                                                              | -                                                                |
| Cable length                                                                                                             | -                                        | -                                                                              | 0.3m                                                             |
| <b>Packaging</b>                                                                                                         |                                          |                                                                                |                                                                  |
| Qty/Bag                                                                                                                  | Not defined                              | Not defined                                                                    | Not defined                                                      |
| <b>Other accessories options</b>                                                                                         |                                          |                                                                                |                                                                  |
| <b>Notes:</b><br>Connectors available with different feautures:<br>See the general features and codification scheme page |                                          |                                                                                |                                                                  |



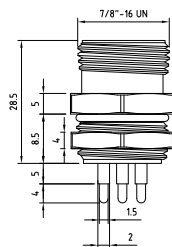
#### Technical drawing



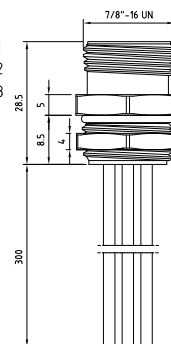
- — 1
- — 2
- — 3



- — 1
- — 2
- — 3



- — 1
- — 2
- — 3



#### Product description

|                    |                                          |                                                                                |                                                                  |
|--------------------|------------------------------------------|--------------------------------------------------------------------------------|------------------------------------------------------------------|
| Connector type     | Circular connector to panel              | Circular connector to panel                                                    | Circular connector to panel                                      |
| Conforms to        | -                                        | -                                                                              | -                                                                |
| Construction type  | 7/8"-16 UN                               | 7/8"-16 UN                                                                     | 7/8"-16 UN                                                       |
| Description        | Circular connector 7/8" series to PANEL. | Circular connector 7/8" series to PANEL with contacts suitable for solder PCB. | Circular connector 7/8" series to PANEL with PVC soldered wires. |
| Part number        | <b>78MP3000-PG13.5</b>                   | <b>78MQ3000-PG13.5</b>                                                         | <b>78MP3A0C-PG13.5</b>                                           |
| Mounting type      | Frontal side of the panel                | Frontal side of the panel                                                      | Frontal side of the panel                                        |
| Contacts type      | Male                                     | Male                                                                           | Male                                                             |
| Number of contacts | 3poles                                   | 3poles                                                                         | 3poles                                                           |
| Fixing Thread      | PG13.5                                   | PG13.5                                                                         | PG13.5                                                           |

#### Technical data

|                                |                               |                               |                               |
|--------------------------------|-------------------------------|-------------------------------|-------------------------------|
| Type of termination            | Contacts to solder wires      | Contacts to solder for PCB    | Contacts to solder wires      |
| Contacts material              | Brass + Gold flash            | Brass + Gold flash            | Brass + Gold flash            |
| Housing /coupling nut material | Brass + Nickel plated         | Brass + Nickel plated         | Brass + Nickel plated         |
| Mobile nut material(SW)        | Brass + Nickel plated (SW25)  | Brass + Nickel plated (SW25)  | Brass + Nickel plated (SW25)  |
| 7/8 " coupling nut torque      | 0.8 N*m                       | 0.8 N*m                       | 0.8 N*m                       |
| Rated voltage                  | 300V AC / DC (max.600V AC/DC) | 300V AC / DC (max.600V AC/DC) | 300V AC / DC (max.600V AC/DC) |
| Rated current                  | 12A                           | 12A                           | 12A                           |
| O-ring material                | NBR                           | NBR                           | NBR                           |
| Cable type                     | -                             | -                             | PVC                           |
| No.Conductors / Section        | -                             | -                             | 3 x 1.50mm <sup>2</sup>       |
| Conductor colours              | -                             | -                             | Yellow/green; Brown; Blue;    |
| Cable diameter                 | -                             | -                             | -                             |
| Cable length                   | -                             | -                             | 0.3m                          |

#### Packaging

|         |             |             |             |
|---------|-------------|-------------|-------------|
| Qty/Bag | Not defined | Not defined | Not defined |
|---------|-------------|-------------|-------------|

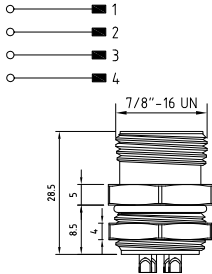
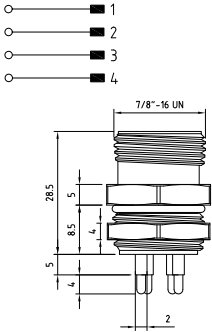
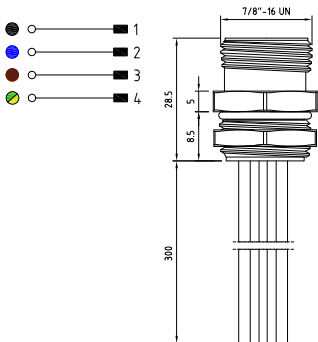
#### Other accessories options

-

#### Notes:

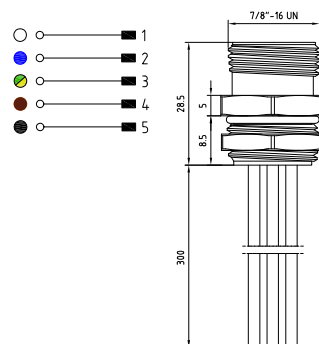
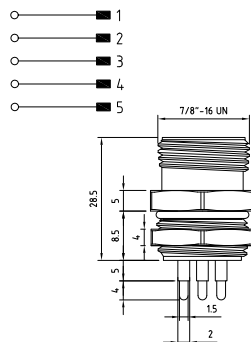
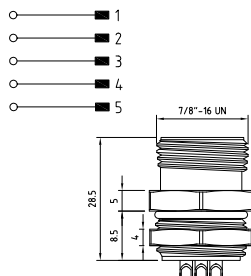
Connectors available with different features:  
See the general features and codification scheme page



|                                                                                                                                                                                                                                                                                                                                            |                                          |                                                                                |                                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|--------------------------------------------------------------------------------|------------------------------------------------------------------|
| <b>Technical drawing</b>                                                                                                                                                                                                                                  |                                          |                                                                                |                                                                  |
|     |                                          |                                                                                |                                                                  |
| <b>Product description</b>                                                                                                                                                                                                                                                                                                                 |                                          |                                                                                |                                                                  |
| Connector type                                                                                                                                                                                                                                                                                                                             | Circular connector to panel              | Circular connector to panel                                                    | Circular connector to panel                                      |
| Conforms to                                                                                                                                                                                                                                                                                                                                | -                                        | -                                                                              | -                                                                |
| Construction type                                                                                                                                                                                                                                                                                                                          | 7/8"-16 UN                               | 7/8"-16 UN                                                                     | 7/8"-16 UN                                                       |
| Description                                                                                                                                                                                                                                                                                                                                | Circular connector 7/8" series to PANEL. | Circular connector 7/8" series to PANEL with contacts suitable for solder PCB. | Circular connector 7/8" series to PANEL with PVC soldered wires. |
| Part number                                                                                                                                                                                                                                                                                                                                | <b>78MP4000-PG13.5</b>                   | <b>78MQ4000-PG13.5</b>                                                         | <b>78MP4A0C-PG13.5</b>                                           |
| Mounting type                                                                                                                                                                                                                                                                                                                              | Frontal side of the panel                | Frontal side of the panel                                                      | Frontal side of the panel                                        |
| Contacts type                                                                                                                                                                                                                                                                                                                              | Male                                     | Male                                                                           | Male                                                             |
| Number of contacts                                                                                                                                                                                                                                                                                                                         | 4poles                                   | 4poles                                                                         | 4poles                                                           |
| Fixing Thread                                                                                                                                                                                                                                                                                                                              | PG13.5                                   | PG13.5                                                                         | PG13.5                                                           |
| <b>Technical data</b>                                                                                                                                                                                                                                                                                                                      |                                          |                                                                                |                                                                  |
| Type of termination                                                                                                                                                                                                                                                                                                                        | Contacts to solder wires                 | Contacts to solder for PCB                                                     | Contacts to solder wires                                         |
| Contacts material                                                                                                                                                                                                                                                                                                                          | Brass+Gold flash                         | Brass+Gold flash                                                               | Brass+Gold flash                                                 |
| Housing /coupling nut material                                                                                                                                                                                                                                                                                                             | Brass+Nickel plated                      | Brass+Nickel plated                                                            | Brass+Nickel plated                                              |
| Mobile nut material(SW)                                                                                                                                                                                                                                                                                                                    | Brass+Nickel plated (SW25)               | Brass+Nickel plated (SW25)                                                     | Brass+Nickel plated (SW25)                                       |
| 7/8 " coupling nut torque                                                                                                                                                                                                                                                                                                                  | 0.8 N*m                                  | 0.8 N*m                                                                        | 0.8 N*m                                                          |
| Rated voltage                                                                                                                                                                                                                                                                                                                              | 300V AC / DC (max.600V AC/DC)            | 300V AC / DC (max.600V AC/DC)                                                  | 300V AC / DC (max.600V AC/DC)                                    |
| Rated current                                                                                                                                                                                                                                                                                                                              | 9A                                       | 9A                                                                             | 9A                                                               |
| O-ring material                                                                                                                                                                                                                                                                                                                            | NBR                                      | NBR                                                                            | NBR                                                              |
| Cable type                                                                                                                                                                                                                                                                                                                                 | -                                        | -                                                                              | PVC                                                              |
| No.Conductors / Section                                                                                                                                                                                                                                                                                                                    | -                                        | -                                                                              | 4 x 1.50mm <sup>2</sup>                                          |
| Conductor colours                                                                                                                                                                                                                                                                                                                          | -                                        | -                                                                              | Black; Blue; Brown; Yellow/green;                                |
| Cable diameter                                                                                                                                                                                                                                                                                                                             | -                                        | -                                                                              | -                                                                |
| Cable length                                                                                                                                                                                                                                                                                                                               | -                                        | -                                                                              | 0.3m                                                             |
| <b>Packaging</b>                                                                                                                                                                                                                                                                                                                           |                                          |                                                                                |                                                                  |
| Qty/Bag                                                                                                                                                                                                                                                                                                                                    | Not defined                              | Not defined                                                                    | Not defined                                                      |
| <b>Other accessories options</b>                                                                                                                                                                                                                                                                                                           |                                          |                                                                                |                                                                  |
| -                                                                                                                                                                                                                                                                                                                                          |                                          |                                                                                |                                                                  |
| <b>Notes:</b><br>Connectors available with different feautres:<br>See the general features and codification scheme page                                                                                                                                                                                                                    |                                          |                                                                                |                                                                  |



#### Technical drawing



#### Product description

|                    |                                          |                                                                                |                                                                  |
|--------------------|------------------------------------------|--------------------------------------------------------------------------------|------------------------------------------------------------------|
| Connector type     | Circular connector to panel              | Circular connector to panel                                                    | Circular connector to panel                                      |
| Conforms to        | -                                        | -                                                                              | -                                                                |
| Construction type  | 7/8"-16 UN                               | 7/8"-16 UN                                                                     | 7/8"-16 UN                                                       |
| Description        | Circular connector 7/8" series to PANEL. | Circular connector 7/8" series to PANEL with contacts suitable for solder PCB. | Circular connector 7/8" series to PANEL with PVC soldered wires. |
| Part number        | <b>78MP5000-PG13.5</b>                   | <b>78MQ5000-PG13.5</b>                                                         | <b>78MP5A0C-PG13.5</b>                                           |
| Mounting type      | Frontal side of the panel                | Frontal side of the panel                                                      | Frontal side of the panel                                        |
| Contacts type      | Male                                     | Male                                                                           | Male                                                             |
| Number of contacts | 5poles                                   | 5poles                                                                         | 5poles                                                           |
| Fixing Thread      | PG13.5                                   | PG13.5                                                                         | PG13.5                                                           |

#### Technical data

|                                |                               |                               |                                          |
|--------------------------------|-------------------------------|-------------------------------|------------------------------------------|
| Type of termination            | Contacts to solder wires      | Contacts to solder for PCB    | Contacts to solder wires                 |
| Contacts material              | Brass + Gold flash            | Brass + Gold flash            | Brass + Gold flash                       |
| Housing /coupling nut material | Brass + Nickel plated         | Brass + Nickel plated         | Brass + Nickel plated                    |
| Mobile nut material(SW)        | Brass + Nickel plated (SW25)  | Brass + Nickel plated (SW25)  | Brass + Nickel plated (SW25)             |
| 7/8 " coupling nut torque      | 0.8 N*m                       | 0.8 N*m                       | 0.8 N*m                                  |
| Rated voltage                  | 300V AC / DC (max.600V AC/DC) | 300V AC / DC (max.600V AC/DC) | 300V AC / DC (max.600V AC/DC)            |
| Rated current                  | 9A                            | 9A                            | 9A                                       |
| O-ring material                | NBR                           | NBR                           | NBR                                      |
| Cable type                     | -                             | -                             | PVC                                      |
| No.Conductors / Section        | -                             | -                             | 5 x 1.50mm <sup>2</sup>                  |
| Conductor colours              | -                             | -                             | White; Blue; Yellow/green; Brown; Black; |
| Cable diameter                 | -                             | -                             | -                                        |
| Cable length                   | -                             | -                             | 0.3m                                     |
|                                |                               |                               | White; Blue; Yellow/green; Brown; Black; |

#### Packaging

|         |             |             |             |
|---------|-------------|-------------|-------------|
| Qty/Bag | Not defined | Not defined | Not defined |
|---------|-------------|-------------|-------------|

#### Other accessories options

-

#### Notes:

Connectors available with different features:  
See the general features and codification scheme page





**M23 CIRCULAR CONNECTORS**

| FEMALE                                                                                                                                                                                      | MALE | FEMALE                                                                                                                                                                                                                                                                                                                          | MALE |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
|                                                                                                                                                                                             |      |                                                                                                                                                                                                                                                                                                                                 |      |
| <b>12 POLES</b><br>1 : WHITE<br>2 : GREEN<br>3 : YELLOW<br>4 : GREY<br>5 : GREY/PINK<br>6 : RED/BLUE<br>7 : WHITE/GREEN<br>8 : BROW/GREEN<br>9-10 : BLUE<br>11 : BROWN<br>12 : YELLOW/GREEN |      | <b>19 POLES</b><br>1 : PURPLE<br>2 : RED<br>3 : GREY<br>4 : RED/BLUE<br>5 : GREEN<br>6 : BLUE<br>7 : GREY/PINK<br>8 : WHITE/GREEN<br>9 : WHITE/YELLOW<br>10 : WHITE/GREY<br>11 : BLACK<br>12 : YELLOW/GREEN<br>13 : YELLOW/BROWN<br>14 : BROWN/GREEN<br>15 : WHITE<br>16 : YELLOW<br>17 : PINK<br>18 : GREY/BROWN<br>19 : BROWN |      |

GENERAL FEATURES OF MOULDED / PANEL MOUNT CONNECTORS:

|                                                                                                                             |                                                |                                                                                                                                                                     |                                                                                                    |
|-----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| <b>Conductor cross section :</b><br><b>Power contacts:</b><br>0.82mm²(18AWG).<br><b>Signal contacts:</b><br>0.34mm²(22AWG). | <b>Fixing system :</b><br>M23 coupling nut.    | <b>Housing material :</b><br><b>Moulded connectors:</b><br>Polypropylene.<br><b>Panel mount:</b><br>Brass + Nickel plated.<br>Stainless steel AISI304(upon request) | <b>Coupling nut material :</b><br>Brass + Nickel plated.<br>Stainless steel AISI304(upon request). |
| <b>Rated Voltage:</b><br>150V AC/DC.                                                                                        | <b>Type of terminations :</b><br>Solder wires. | <b>Contact material and treatment :</b><br>Brass + Gold flash.                                                                                                      | <b>Protection class :</b><br>IP 67.                                                                |
| <b>Rated current:</b><br>12poles: 8A.<br>19poles: 10A (power contacts), 8A(signal contacts).                                |                                                | <b>Internal core material :</b><br>PA66.                                                                                                                            | <b>Operating temperature :</b><br>-25°C +90°C.                                                     |

23

F

D

12

P

1Z

-

23

M

D

##

**SERIES**  
23 : M23 CIRCULAR CONNECTOR N-CODED.

**GENDER**  
F : FEMALE. M : MALE.

**HOUSING TYPE**  
A : ANGLED 90°. D : STRAIGHT 180°. P : TO PANEL (CONTACTS TO SOLDER). S : TO PANEL (CONTACTS FOR PCB.)

**NUMBERS OF POLES**  
12 : 12POLES. 19 : 19POLES.

**CABLE TYPE**  
000 : WITHOUT CABLE. P : P-3+8-IS (12poles). P : P-3+16-IS (19poles).

**CABLE LENGTH**  
1Z : 1m A : +10cm  
2Z : 2m B : +20cm  
3Z : 3m C : +30cm  
... I : +90cm

**EXTENSION**  
SPECIFY OTHER CONNECTOR'S SIDE

**SOME VARIABLTY**  
- INOX : M23 COUPLING NUT IN STAINLESS STEEL(AISI304). - Y : WITHOUT H.T.P.LOGO.

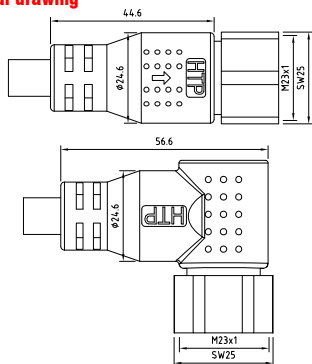
EXAMPLE: "...1C" = 1.3m  
"...1F" = 1.6m  
"...2A" = 2.1m

M23 CONNECTORS CABLE:

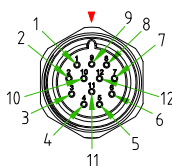
| Code      | Material | Type of cable | Colour | Section                                 | No.core | Cable ø mm ±0.3 | Temperature range °C |
|-----------|----------|---------------|--------|-----------------------------------------|---------|-----------------|----------------------|
| P-3+8-IS  | PUR/PP   | ULstyle 20549 | Black  | 3GAWG 18 +8xAWG 22 (0.82mm²) (0.34mm²)  | 3 + 8   | ø8.8mm          | -40°C / +80°C        |
| P-3+16-IS | PUR/PP   | ULstyle 20549 | Black  | 3GAWG 18 +16xAWG 22 (0.82mm²) (0.34mm²) | 3 + 16  | ø10.6mm         | -40°C / +80°C        |



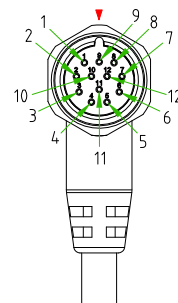
#### Technical drawing



- — c 1
- — c 2
- — c 3
- — c 4
- — c 5
- — c 6
- — c 7
- — c 8
- — c 9
- — c 10
- — c 11
- — c 12



- — c 1
- — c 2
- — c 3
- — c 4
- — c 5
- — c 6
- — c 7
- — c 8
- — c 9
- — c 10
- — c 11
- — c 12



#### Product description

|                    |                                                  |                                                  |
|--------------------|--------------------------------------------------|--------------------------------------------------|
| Connector type     | Circular connector with moulded cable            | Circular connector with moulded cable            |
| Construction type  | M23 N-Coded                                      | M23 N-Coded                                      |
| Description        | Circular connector M23 series with moulded cable | Circular connector M23 series with moulded cable |
| Part number        | <b>23FD12P1Z-K6-IS</b>                           | <b>23FA12P1Z-K6-IS</b>                           |
| Housing type       | Straight 180°                                    | Angled 90°                                       |
| Cable gland        | Moulded cable                                    | Moulded cable                                    |
| Contacts type      | Female                                           | Female                                           |
| Number of contacts | 12poles                                          | 12poles                                          |
| Housing colour     | Black                                            | Black                                            |

#### Technical data

|                           |                                                      |                                                      |
|---------------------------|------------------------------------------------------|------------------------------------------------------|
| Type of termination       | Contacts to solder wires                             | Contacts to solder wires                             |
| Contacts material         | Brass + Gold flash                                   | Brass + Gold flash                                   |
| Coupling nut type         | Hexagonal (SW25)                                     | Hexagonal (SW25)                                     |
| M23 coupling nut material | Brass + Nickel plated                                | Brass + Nickel plated                                |
| M23 coupling nut torque   | -                                                    | -                                                    |
| Rated voltage             | 150V AC/DC                                           | 150V AC/DC                                           |
| Rated current             | 8A                                                   | 8A                                                   |
| O-ring material           | -                                                    | -                                                    |
| Cable type                | PUR/TPO ULstyle20549                                 | PUR/TPO ULstyle20549                                 |
| Cable jacket colour       | Black                                                | Black                                                |
| No. Conductors / Section  | 8x22AWG + 3x18AWG                                    | 8x22AWG + 3x18AWG                                    |
| Conductor colours         | Wh;Gn;Ye;Gy;Gy/Pk;Rd;Bu;Wh/Gn;<br>Bn/Gn;Bu;Bn;Ye/Gn. | Wh;Gn;Ye;Gy;Gy/Pk;Rd;Bu;Wh/Gn;<br>Bn/Gn;Bu;Bn;Ye/Gn. |
| Cable diameter            | ø8.8mm (±0.3)                                        | ø8.8mm (±0.3)                                        |
| Cable length              | 1m                                                   | 1m                                                   |

#### Packaging

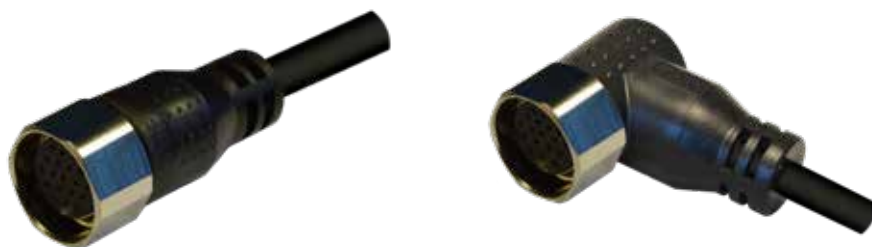
|         |            |            |
|---------|------------|------------|
| Qty/Bag | 1 pc / bag | 1 pc / bag |
|---------|------------|------------|

#### Other accessories options

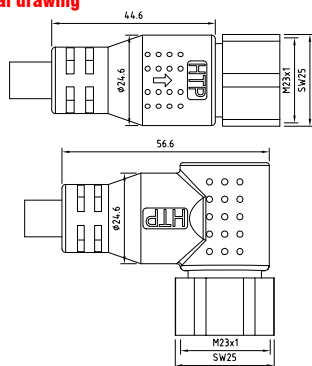
See accessories section

**Notes:** Connectors available with different features:  
See the general features and codification scheme page  
See the cables list section

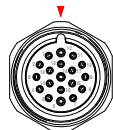




#### Technical drawing



- < 1
- < 2
- < 3
- < 4
- < 5
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- < 7
- < 8
- < 9
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- < 11
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- < 13
- < 14
- < 15
- < 16
- < 17
- < 18
- < 19



- < 1
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- < 3
- < 4
- < 5
- < 6
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- < 8
- < 9
- < 10
- < 11
- < 12
- < 13
- < 14
- < 15
- < 16
- < 17
- < 18
- < 19



#### Product description

|                    |                                                  |                                                  |
|--------------------|--------------------------------------------------|--------------------------------------------------|
| Connector type     | Circular connector with moulded cable            | Circular connector with moulded cable            |
| Construction type  | M23 N-Coded                                      | M23 N-Coded                                      |
| Description        | Circular connector M23 series with moulded cable | Circular connector M23 series with moulded cable |
| Part number        | <b>23FD19P1Z-K6-IS</b>                           | <b>23FA19P1Z-K6-IS</b>                           |
| Housing type       | Straight 180°                                    | Angled 90°                                       |
| Cable gland        | Moulded cable                                    | Moulded cable                                    |
| Contacts type      | Female                                           | Female                                           |
| Number of contacts | 19poles                                          | 19poles                                          |
| Housing colour     | Black                                            | Black                                            |

#### Technical data

|                           |                                                                                          |                                                                                          |
|---------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| Type of termination       | Contacts to solder wires                                                                 | Contacts to solder wires                                                                 |
| Contacts material         | Brass + Gold flash                                                                       | Brass + Gold flash                                                                       |
| Coupling nut type         | Hexagonal (SW25)                                                                         | Hexagonal (SW25)                                                                         |
| M23 coupling nut material | Brass + Nickel plated                                                                    | Brass + Nickel plated                                                                    |
| M23 coupling nut torque   | -                                                                                        | -                                                                                        |
| Rated voltage             | 150V AC/DC                                                                               | 150V AC/DC                                                                               |
| Rated current             | Power contacts: 10A / Signal contacts: 8A                                                | Power contacts: 10A / Signal contacts: 8A                                                |
| O-ring material           | -                                                                                        | -                                                                                        |
| Cable type                | PUR/TPO ULstyle20549                                                                     | PUR/TPO ULstyle20549                                                                     |
| Cable jacket colour       | Black                                                                                    | Black                                                                                    |
| No. Conductors / Section  | 19x22AWG + 3x18AWG                                                                       | 19x22AWG + 3x18AWG                                                                       |
| Conductor colours         | Vt;Rd;Gy;Rd;Bu;Gn;Bu;Gy/Pk;Wh/Gn;Wh/Ye;<br>Wh/Gy;Bk;Ye/Gn;Ye/Bn;Bn/Gn;Wh;Ye;Pk;Gy/Bn;Bn. | Vt;Rd;Gy;Rd;Bu;Gn;Bu;Gy/Pk;Wh/Gn;Wh/Ye;<br>Wh/Gy;Bk;Ye/Gn;Ye/Bn;Bn/Gn;Wh;Ye;Pk;Gy/Bn;Bn. |
| Cable diameter            | ø10.6mm (±0.3)                                                                           | ø10.6mm (±0.3)                                                                           |
| Cable length              | 1m                                                                                       | 1m                                                                                       |

#### Packaging

|         |            |            |
|---------|------------|------------|
| Qty/Bag | 1 pc / bag | 1 pc / bag |
|---------|------------|------------|

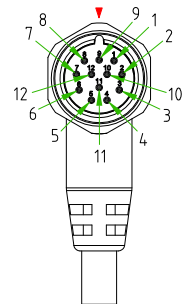
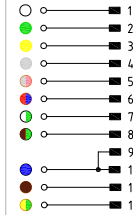
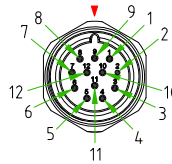
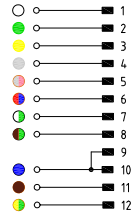
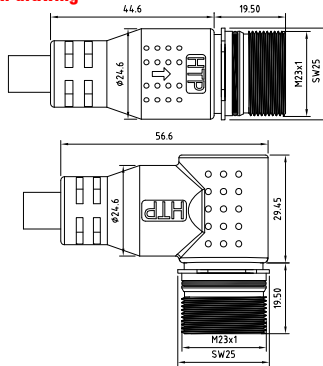
#### Other accessories options

See accessories section

**Notes:** Connectors available with different features:  
See the general features and codification scheme page  
See the cables list section



#### Technical drawing



#### Product description

|                    |                                                  |                                                  |
|--------------------|--------------------------------------------------|--------------------------------------------------|
| Connector type     | Circular connector with moulded cable            | Circular connector with moulded cable            |
| Construction type  | M23 N-Coded                                      | M23 N-Coded                                      |
| Description        | Circular connector M23 series with moulded cable | Circular connector M23 series with moulded cable |
| Part number        | <b>23MD12P1Z-K6-IS</b>                           | <b>23MA12P1Z-K6-IS</b>                           |
| Housing type       | Straight 180°                                    | Angled 90°                                       |
| Cable gland        | Moulded cable                                    | Moulded cable                                    |
| Contacts type      | Male                                             | Male                                             |
| Number of contacts | 12poles                                          | 12poles                                          |
| Housing colour     | Black                                            | Black                                            |

#### Technical data

|                           |                                                      |                                                      |
|---------------------------|------------------------------------------------------|------------------------------------------------------|
| Type of termination       | Contacts to solder wires                             | Contacts to solder wires                             |
| Contacts material         | Brass + Gold flash                                   | Brass + Gold flash                                   |
| Coupling nut type         | Hexagonal (SW25)                                     | Hexagonal (SW25)                                     |
| M23 coupling nut material | Brass + Nickel plated                                | Brass + Nickel plated                                |
| M23 coupling nut torque   | -                                                    | -                                                    |
| Rated voltage             | 150V AC/DC                                           | 150V AC/DC                                           |
| Rated current             | 8A                                                   | 8A                                                   |
| O-ring material           | NBR                                                  | NBR                                                  |
| Cable type                | PUR/TPO ULstyle20549                                 | PUR/TPO ULstyle20549                                 |
| Cable jacket colour       | Black                                                | Black                                                |
| No. Conductors / Section  | 8x22AWG + 3x18AWG                                    | 8x22AWG + 3x18AWG                                    |
| Conductor colours         | Wh;Gn;Ye;Gy;Gy/Pk;Rd;Bu;Wh/Gn;<br>Bn/Gn;Bu;Bn;Ye/Gn. | Wh;Gn;Ye;Gy;Gy/Pk;Rd;Bu;Wh/Gn;<br>Bn/Gn;Bu;Bn;Ye/Gn. |
| Cable diameter            | ø8.8mm (±0.3)                                        | ø8.8mm (±0.3)                                        |
| Cable length              | 1m                                                   | 1m                                                   |

#### Packaging

|         |            |            |
|---------|------------|------------|
| Qty/Bag | 1 pc / bag | 1 pc / bag |
|---------|------------|------------|

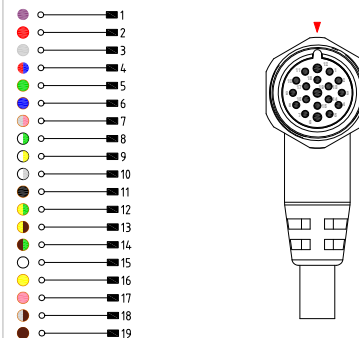
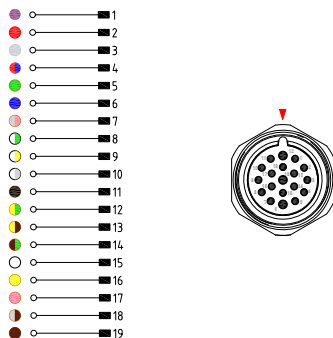
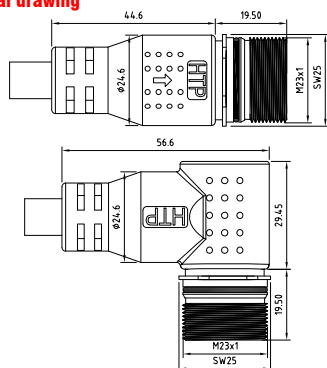
#### Other accessories options

See accessories section

**Notes:** Connectors available with different features:  
See the general features and codification scheme page  
See the cables list section



#### Technical drawing



#### Product description

|                    |                                                  |                                                  |
|--------------------|--------------------------------------------------|--------------------------------------------------|
| Connector type     | Circular connector with moulded cable            | Circular connector with moulded cable            |
| Construction type  | M23 N-Coded                                      | M23 N-Coded                                      |
| Description        | Circular connector M23 series with moulded cable | Circular connector M23 series with moulded cable |
| Part number        | <b>23MD19P1Z-K6-IS</b>                           | <b>23MA19P1Z-K6-IS</b>                           |
| Housing type       | Straight 180°                                    | Angled 90°                                       |
| Cable gland        | Moulded cable                                    | Moulded cable                                    |
| Contacts type      | Male                                             | Male                                             |
| Number of contacts | 19poles                                          | 19poles                                          |
| Housing colour     | Black                                            | Black                                            |

#### Technical data

|                           |                                                                                          |                                                                                          |
|---------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| Type of termination       | Contacts to solder wires                                                                 | Contacts to solder wires                                                                 |
| Contacts material         | Brass + Gold flash                                                                       | Brass + Gold flash                                                                       |
| Coupling nut type         | Hexagonal (SW25)                                                                         | Hexagonal (SW25)                                                                         |
| M23 coupling nut material | Brass + Nickel plated                                                                    | Brass + Nickel plated                                                                    |
| M23 coupling nut torque   | -                                                                                        | -                                                                                        |
| Rated voltage             | 150V AC/DC                                                                               | 150V AC/DC                                                                               |
| Rated current             | Power contacts: 10A / Signal contacts: 8A                                                | Power contacts: 10A / Signal contacts: 8A                                                |
| O-ring material           | NBR                                                                                      | NBR                                                                                      |
| Cable type                | PUR/TPO ULstyle20549                                                                     | PUR/TPO ULstyle20549                                                                     |
| Cable jacket colour       | Black                                                                                    | Black                                                                                    |
| No. Conductors / Section  | 19x22AWG + 3x18AWG                                                                       | 19x22AWG + 3x18AWG                                                                       |
| Conductor colours         | Vt;Rd;Gy;Rd;Bu;Gn;Bu;Gy/Pk;Wh/Gn;Wh/Ye;<br>Wh/Gy;Bk;Ye/Gn;Ye/Bn;Bn/Gn;Wh;Ye;Pk;Gy/Bn;Bn. | Vt;Rd;Gy;Rd;Bu;Gn;Bu;Gy/Pk;Wh/Gn;Wh/Ye;<br>Wh/Gy;Bk;Ye/Gn;Ye/Bn;Bn/Gn;Wh;Ye;Pk;Gy/Bn;Bn. |
| Cable diameter            | ø10.6mm (±0.3)                                                                           | ø10.6mm (±0.3)                                                                           |
| Cable length              | 1m                                                                                       | 1m                                                                                       |

#### Packaging

|         |            |            |
|---------|------------|------------|
| Qty/Bag | 1 pc / bag | 1 pc / bag |
|---------|------------|------------|

#### Other accessories options

See accessories section

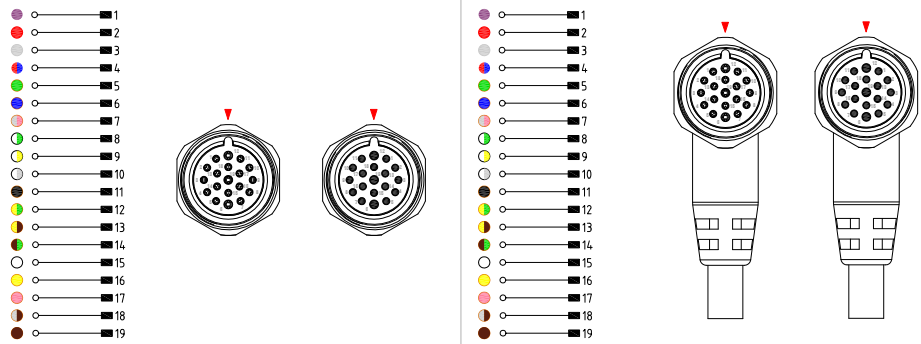
**Notes:** Connectors available with different features:  
See the general features and codification scheme page  
See the cables list section



|                                                                                                                                                     |                                                      |                                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|
| <b>Technical drawing</b>                                                                                                                            |                                                      |                                                      |
|                                                                                                                                                     |                                                      |                                                      |
| <b>Product description</b>                                                                                                                          |                                                      |                                                      |
| Connector type                                                                                                                                      | Circular connectors with moulded cable               | Circular connectors with moulded cable               |
| Construction type                                                                                                                                   | M23 N-Coded                                          | M23 N-Coded                                          |
| Description                                                                                                                                         | Extension M23-M23 connectors with moulded cable      | Extension M23-M23 connectors with moulded cable      |
| Part number                                                                                                                                         | <b>23FD12P1Z23MD-K6-IS</b>                           | <b>23FA12P1Z23MA-K6-IS</b>                           |
| Housing type                                                                                                                                        | Straight 180°                                        | Angled 90°                                           |
| Cable gland                                                                                                                                         | Moulded cable                                        | Moulded cable                                        |
| Contacts type                                                                                                                                       | Female-Male                                          | Female-Male                                          |
| Number of contacts                                                                                                                                  | 12poles                                              | 12poles                                              |
| Housing colour                                                                                                                                      | Black                                                | Black                                                |
| <b>Technical data</b>                                                                                                                               |                                                      |                                                      |
| Type of termination                                                                                                                                 | Contacts to solder wires                             | Contacts to solder wires                             |
| Contacts material                                                                                                                                   | Brass + Gold flash                                   | Brass + Gold flash                                   |
| Coupling nut type                                                                                                                                   | Hexagonal (SW25)                                     | Hexagonal (SW25)                                     |
| M23 coupling nut material                                                                                                                           | Brass + Nickel plated                                | Brass + Nickel plated                                |
| M23 coupling nut torque                                                                                                                             | -                                                    | -                                                    |
| Rated voltage                                                                                                                                       | 150V AC/DC                                           | 150V AC/DC                                           |
| Rated current                                                                                                                                       | 8A                                                   | 8A                                                   |
| O-ring material                                                                                                                                     | NBR                                                  | NBR                                                  |
| Cable type                                                                                                                                          | PUR/TPO ULstyle20549                                 | PUR/TPO ULstyle20549                                 |
| Cable jacket colour                                                                                                                                 | Black                                                | Black                                                |
| No.Conductors / Section                                                                                                                             | 8x22AWG + 3x18AWG                                    | 8x22AWG + 3x18AWG                                    |
| Conductor colours                                                                                                                                   | Wh;Gn;Ye;Gy;Gy/Pk;Rd/Bu;Wh/Gn;<br>Bn/Gn;Bu;Bn;Ye/Gn. | Wh;Gn;Ye;Gy;Gy/Pk;Rd/Bu;Wh/Gn;<br>Bn/Gn;Bu;Bn;Ye/Gn. |
| Cable diameter                                                                                                                                      | ø8.8mm (±0.3)                                        | ø8.8mm (±0.3)                                        |
| Cable length                                                                                                                                        | 1m                                                   | 1m                                                   |
| <b>Packaging</b>                                                                                                                                    |                                                      |                                                      |
| Qty/Bag                                                                                                                                             | 1 pc / bag                                           | 1 pc / bag                                           |
| <b>Other accessories options</b>                                                                                                                    |                                                      |                                                      |
| See accessories section                                                                                                                             |                                                      |                                                      |
| <b>Notes:</b> Connectors available with different feautres:<br>See the general features and codification scheme page<br>See the cables list section |                                                      |                                                      |



#### Technical drawing



#### Product description

|                    |                                                 |                                                 |
|--------------------|-------------------------------------------------|-------------------------------------------------|
| Connector type     | Circular connector with moulded cable           | Circular connector with moulded cable           |
| Construction type  | M23 N-Coded                                     | M23 N-Coded                                     |
| Description        | Extension M23-M23 connectors with moulded cable | Extension M23-M23 connectors with moulded cable |
| Part number        | <b>23FD19P1Z23MD-K6-IS</b>                      | <b>23FA19P1Z23MA-K6-IS</b>                      |
| Housing type       | Straight 180°                                   | Angled 90°                                      |
| Cable gland        | Moulded cable                                   | Moulded cable                                   |
| Contacts type      | Female-Male                                     | Female-Male                                     |
| Number of contacts | 19poles                                         | 19poles                                         |
| Housing colour     | Black                                           | Black                                           |

#### Technical data

|                           |                                                                                          |                                                                                          |
|---------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| Type of termination       | Contacts to solder wires                                                                 | Contacts to solder wires                                                                 |
| Contacts material         | Brass + Gold flash                                                                       | Brass + Gold flash                                                                       |
| Coupling nut type         | Hexagonal (SW25)                                                                         | Hexagonal (SW25)                                                                         |
| M23 coupling nut material | Brass + Nickel plated                                                                    | Brass + Nickel plated                                                                    |
| M23 coupling nut torque   | -                                                                                        | -                                                                                        |
| Rated voltage             | 150V AC/DC                                                                               | 150V AC/DC                                                                               |
| Rated current             | Power contacts: 10A / Signal contacts: 8A                                                | Power contacts: 10A / Signal contacts: 8A                                                |
| O-ring material           | NBR                                                                                      | NBR                                                                                      |
| Cable type                | PUR/TPO ULstyle20549                                                                     | PUR/TPO ULstyle20549                                                                     |
| Cable jacket colour       | Black                                                                                    | Black                                                                                    |
| No. Conductors / Section  | 19x22AWG + 3x18AWG                                                                       | 19x22AWG + 3x18AWG                                                                       |
| Conductor colours         | Vt;Rd;Gy;Rd;Bu;Gn;Bu;Gy/Pk;Wh;Gn;Wh;Ye;<br>Wh;Gy;Bk;Ye;Gn;Ye;Bn;Bn;Gn;Wh;Ye;Pk;Gy;Bn;Bn. | Vt;Rd;Gy;Rd;Bu;Gn;Bu;Gy/Pk;Wh;Gn;Wh;Ye;<br>Wh;Gy;Bk;Ye;Gn;Ye;Bn;Bn;Gn;Wh;Ye;Pk;Gy;Bn;Bn. |
| Cable diameter            | ø10.6mm (±0.3)                                                                           | ø10.6mm (±0.3)                                                                           |
| Cable length              | 1m                                                                                       | 1m                                                                                       |

#### Packaging

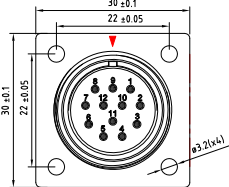
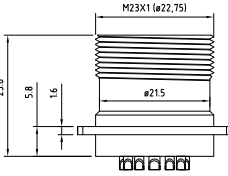
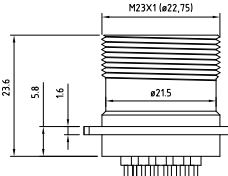
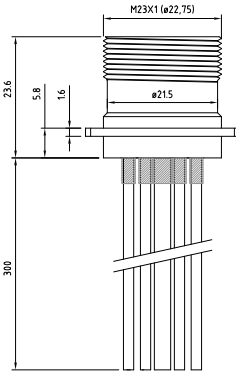
|         |            |            |
|---------|------------|------------|
| Qty/Bag | 1 pc / bag | 1 pc / bag |
|---------|------------|------------|

#### Other accessories options

See accessories section

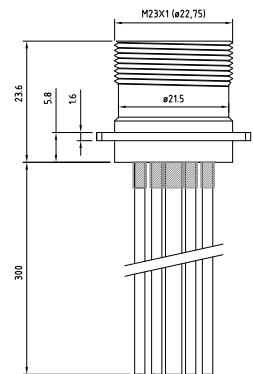
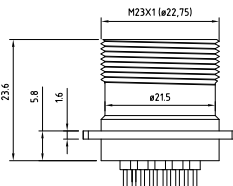
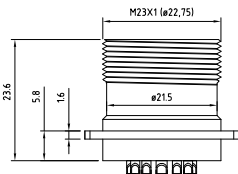
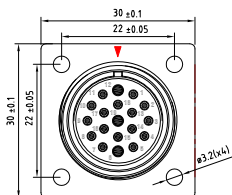
**Notes:** Connectors available with different feautres:  
See the general features and codification scheme page  
See the cables list section



|                                                                                                                                                                                                                                                                                                                                                                     |                                            |                                                                                   |                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------|
| <b>Technical drawing</b>     |                                            |                                                                                   |                                                                     |
| <b>Product description</b>                                                                                                                                                                                                                                                                                                                                          |                                            |                                                                                   |                                                                     |
| Connector type                                                                                                                                                                                                                                                                                                                                                      | Circular connector to panel                | Circular connector to panel                                                       | Circular connector to panel                                         |
| Conforms to                                                                                                                                                                                                                                                                                                                                                         | -                                          | -                                                                                 | -                                                                   |
| Construction type                                                                                                                                                                                                                                                                                                                                                   | M23 N-Coded                                | M23 N-Coded                                                                       | M23 N-Coded                                                         |
| Description                                                                                                                                                                                                                                                                                                                                                         | Circular connector M23 series,panel mount. | Circular connector M23 series,panle mount, with contacts suitable for solder PCB. | Circular connector M23 series,panel mount, with PVC soldered wires. |
| Part number                                                                                                                                                                                                                                                                                                                                                         | <b>23MP12000-FL</b>                        | <b>23MS12000-FL</b>                                                               | <b>23MP12P0C-FL</b>                                                 |
| Mounting type                                                                                                                                                                                                                                                                                                                                                       | Frontal side of the panel                  | Frontal side of the panel                                                         | Frontal side of the panel                                           |
| Contacts type                                                                                                                                                                                                                                                                                                                                                       | Male                                       | Male                                                                              | Male                                                                |
| Number of contacts                                                                                                                                                                                                                                                                                                                                                  | 12 poles                                   | 12 poles                                                                          | 12 poles                                                            |
| Fixing Type                                                                                                                                                                                                                                                                                                                                                         | Flange 30x30mm                             | Flange 30x30mm                                                                    | Flange 30x30mm                                                      |
| Number of fixing holes                                                                                                                                                                                                                                                                                                                                              | n° 4                                       | n° 4                                                                              | n° 4                                                                |
| <b>Technical data</b>                                                                                                                                                                                                                                                                                                                                               |                                            |                                                                                   |                                                                     |
| Type of termination                                                                                                                                                                                                                                                                                                                                                 | Contacts to solder wires                   | Contacts to solder PCB                                                            | Contacts to solder wires                                            |
| Contacts material                                                                                                                                                                                                                                                                                                                                                   | Brass + Gold flash                         | Brass + Gold flash                                                                | Brass + Gold flash                                                  |
| Housing /coupling nut material                                                                                                                                                                                                                                                                                                                                      | Brass + Nickel plated                      | Brass + Nickel plated                                                             | Brass + Nickel plated                                               |
| Mobile nut material(SW)                                                                                                                                                                                                                                                                                                                                             | -                                          | -                                                                                 | -                                                                   |
| M23 coupling nut torque                                                                                                                                                                                                                                                                                                                                             | -                                          | -                                                                                 | -                                                                   |
| Rated voltage                                                                                                                                                                                                                                                                                                                                                       | 150V AC/DC                                 | 150V AC/DC                                                                        | 150V AC/DC                                                          |
| Rated current                                                                                                                                                                                                                                                                                                                                                       | 8A                                         | 8A                                                                                | 8A                                                                  |
| O-ring material                                                                                                                                                                                                                                                                                                                                                     | NBR                                        | NBR                                                                               | NBR                                                                 |
| Cable type                                                                                                                                                                                                                                                                                                                                                          | -                                          | -                                                                                 | TPO                                                                 |
| No.Conductors / Section                                                                                                                                                                                                                                                                                                                                             | -                                          | -                                                                                 | 3 x 18AWG + 16 x 22AWG                                              |
| Conductor colours                                                                                                                                                                                                                                                                                                                                                   | -                                          | -                                                                                 | Wh;Gn;Ye;Gy;Gy/Pk;Rd/Bu;Wh/Gn; Bn/Gn;Bu;Bn;Ye/Gn.                   |
| Cable diameter                                                                                                                                                                                                                                                                                                                                                      | -                                          | -                                                                                 | -                                                                   |
| Wires length                                                                                                                                                                                                                                                                                                                                                        | -                                          | -                                                                                 | 0.3m                                                                |
| <b>Packaging</b>                                                                                                                                                                                                                                                                                                                                                    |                                            |                                                                                   |                                                                     |
| Qty/Bag                                                                                                                                                                                                                                                                                                                                                             | -                                          | -                                                                                 | -                                                                   |
| <b>Other accessories options</b>                                                                                                                                                                                                                                                                                                                                    |                                            |                                                                                   |                                                                     |
| See accessories section                                                                                                                                                                                                                                                                                                                                             |                                            |                                                                                   |                                                                     |
| <b>Notes:</b> Connectors available with different feautres:<br>See the general features and codification scheme page<br>See the cables list section                                                                                                                                                                                                                 |                                            |                                                                                   |                                                                     |



#### Technical drawing



#### Product description

|                        |                                             |                                                                                    |                                                                      |
|------------------------|---------------------------------------------|------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| Connector type         | Circular connector to panel                 | Circular connector to panel                                                        | Circular connector to panel                                          |
| Conforms to            | -                                           | -                                                                                  | -                                                                    |
| Construction type      | M23 N-Coded                                 | M23 N-Coded                                                                        | M23 N-Coded                                                          |
| Description            | Circular connector M23 series, panel mount. | Circular connector M23 series, panel mount, with contacts suitable for solder PCB. | Circular connector M23 series, panel mount, with PVC soldered wires. |
| Part number            | <b>23MP19000-FL</b>                         | <b>23MS19000-FL</b>                                                                | <b>23MP19P0C-FL</b>                                                  |
| Mounting type          | Frontal side of the panel                   | Frontal side of the panel                                                          | Frontal side of the panel                                            |
| Contacts type          | Male                                        | Male                                                                               | Male                                                                 |
| Number of contacts     | 19 poles                                    | 19 poles                                                                           | 19 poles                                                             |
| Fixing Type            | Flange 30x30mm                              | Flange 30x30mm                                                                     | Flange 30x30mm                                                       |
| Number of fixing holes | n° 4                                        | n° 4                                                                               | n° 4                                                                 |

#### Technical data

|                                |                                           |                                           |                                                                                      |
|--------------------------------|-------------------------------------------|-------------------------------------------|--------------------------------------------------------------------------------------|
| Type of termination            | Contacts to solder wires                  | Contacts to solder PCB                    | Contacts to solder wires                                                             |
| Contacts material              | Brass + Gold flash                        | Brass + Gold flash                        | Brass + Gold flash                                                                   |
| Housing /coupling nut material | Brass + Nickel plated                     | Brass + Nickel plated                     | Brass + Nickel plated                                                                |
| Mobile nut material(SW)        | -                                         | -                                         | -                                                                                    |
| M23 coupling nut torque        | -                                         | -                                         | -                                                                                    |
| Rated voltage                  | 150V AC/DC                                | 150V AC/DC                                | 150V AC/DC                                                                           |
| Rated current                  | Power contacts: 10A / Signal contacts: 8A | Power contacts: 10A / Signal contacts: 8A | Power contacts: 10A / Signal contacts: 8A                                            |
| O-ring material                | NBR                                       | NBR                                       | NBR                                                                                  |
| Cable type                     | -                                         | -                                         | TPO                                                                                  |
| No. Conductors / Section       | -                                         | -                                         | 3 x 18AWG + 16 x 22AWG                                                               |
| Conductor colours              | -                                         | -                                         | Vt;Rd;Gy;Rd;Bu;Gn;Bu;Gy/Pk;Wh/Gn;Wh/Ye;Wh/Gy;Bk;Ye/Gn;Ye/Bn;Bn/Gn;Wh;Ye;Pk;Gy/Bn;Bn. |
| Cable diameter                 | -                                         | -                                         | -                                                                                    |
| Wires length                   | -                                         | -                                         | 0.3m                                                                                 |

#### Packaging

|         |   |   |   |
|---------|---|---|---|
| Qty/Bag | - | - | - |
|---------|---|---|---|

#### Other accessories options

See accessories section

**Notes:** Connectors available with different features:  
See the general features and codification scheme page  
See the cables list section





**DISTRIBUTION BOXES**



- **GENERAL FEATURES:**

**Type of terminations :**

Terminal block with screws.

**Cable Gland :**

**PG11 : Ø CABLE 6.5 - 9.5mm.**

**Conductor cross section :**

0.14(26AWG)...1mm<sup>2</sup>(17AWG).

**Circuit type :**

PNP circuit.

NPN circuit (upon request).

**Local diagnostic :**

Supply voltage: Green Led.

Status display I/O: Red Led.

**SIGNAL per OUTLET:**

Single.

**Rated voltage:**

10-30V DC.

**Rated current:**

Current carrying capacity per I/O signal: 2A.

Current carrying capacity per slot: 2A.

Total rated current: 8A.

**Fixing system :**

M8 coupling nut.

**Max. screw torque IEC60947-1 :**

M8 coupling nut torque 0.2N\*m.

**M8 Contact material and treatment :**

Brass + Gold flash.

**Housing material :**

PA66 UL94-V2.

**Internal core material :**

PA66 UL94-V2.

**Coupling nut material :**

Brass + Nickel plated.

**Flammability resistance :**

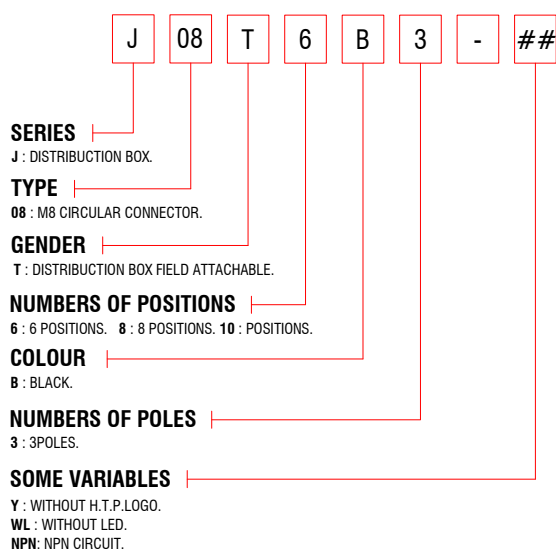
UL94-V2 - Standard.

**Protection class :**

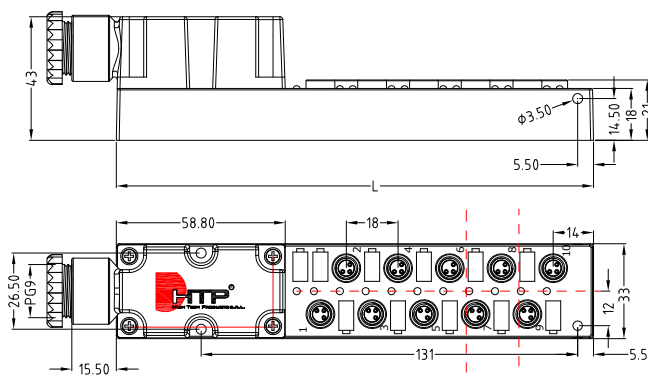
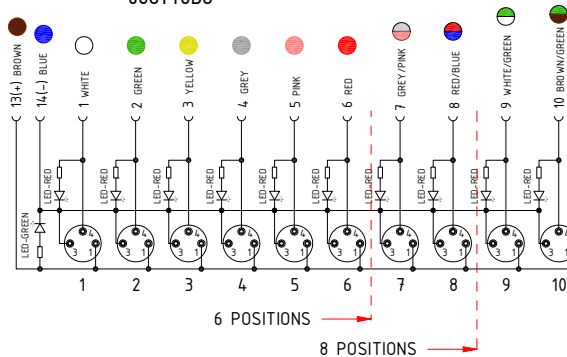
IP 67 (assembled).

**Operating temperature :**

-40°C +90°C.



J08T10B3



**6 POSITIONS L= 130mm.**

8 POSITIONS L= 150mm.

10 POSITIONS L= 166mm.

## ● GENERAL FEATURES:

**Type of terminations :**  
Moulded cable.

**Rated voltage:**  
10-30V DC.

**M8 Contact material and treatment :**  
Brass + Gold flash.

**Protection class :**  
IP 67 (assembled).

**Circuit type :**  
PNP circuit.  
NPN circuit (upon request).

**Rated current:**  
Current carrying capacity per I/O signal: 2A.  
Current carrying capacity per slot: 2A.  
Total rated current: 8A.

**Housing material :**  
PA66 UL94-V2.

**Operating temperature :**  
-40°C +90°C.

**Local diagnostic :**  
Supply voltage: Green Led.  
Status display I/O: Red Led.

**Fixing system :**  
M8 coupling nut.

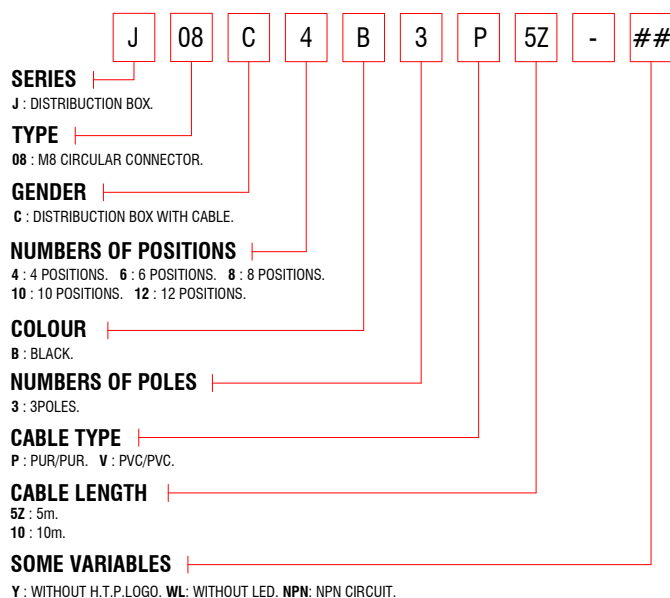
**Internal core material :**  
PA66 UL94-V2.

**Coupling nut material :**  
Brass + Nickel plated.

**SIGNAL per OUTLET:**  
Single.

**Max. screw torque IEC60947-1 :**  
M8 coupling nut torque 0.2N\*m.

**Flammability resistance :**  
UL94-V2 - Standard.



J08C4B3...



J08C6B3...



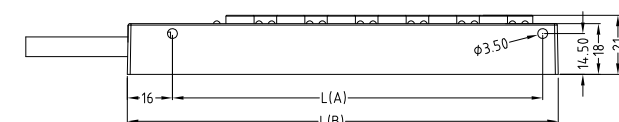
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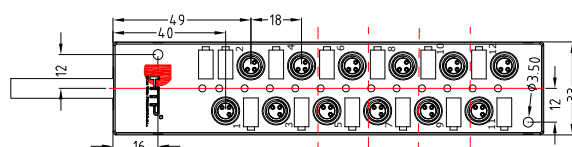
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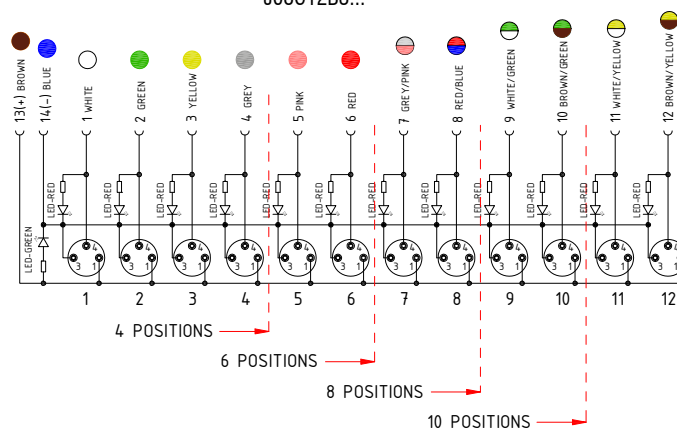
J08C12B3...



4 POSITIONS L(A)= 59.50mm. L(B)= 81mm.  
6 POSITIONS L(A)= 77.50mm. L(B)= 99mm.  
8 POSITIONS L(A)= 95.50mm. L(B)= 117mm.  
10 POSITIONS L(A)= 113.50mm. L(B)= 135mm.  
12 POSITIONS L(A)= 131.50mm. L(B)= 153mm.



4 POSITIONS  
6 POSITIONS  
8 POSITIONS  
10 POSITIONS



## • GENERAL FEATURES:

**Type of terminations :**  
M12 connector.

**Cable Gland :**  
PG11 :  $\varnothing$  CABLE 6.5 - 9.5mm.

**Circuit type :**  
PNP circuit.  
NPN circuit (upon request).

**Local diagnostic :**  
Supply voltage: Green Led.  
Status display I/O: Red Led.

**SIGNAL per OUTLET:**  
Single.

**Rated voltage:**  
10-30V DC.

**Rated Current (4-6-12 positions):**  
Current carrying capacity per I/O signal: 2A.  
Current carrying capacity per slot: 2A.  
Total rated current: 2A.

**Rated Current (8 positions):**  
Current carrying capacity per I/O signal: 1.5A.  
Current carrying capacity per slot: 1.5A.  
Total rated current: 1.5A.

**Fixing system :**  
M8 coupling nut.

**Max. screw torque IEC60947-1 :**  
M8 coupling nut torque 0.2N\*m  
M12 coupling nut torque 0.4N\*m

**M8 Contact material and treatment :**  
Brass + Gold flash.

**Housing material :**  
PA66 UL94-V2.

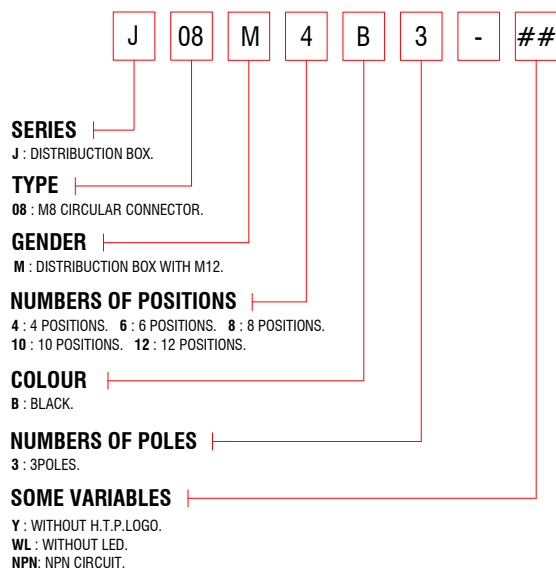
**Internal core material :**  
PA66 UL94-V2.

**Coupling nut material :**  
Brass+ Nickel plated.

**Flammability resistance :**  
UL94-V2 - Standard.

**Protection class :**  
IP 67 (assembled).

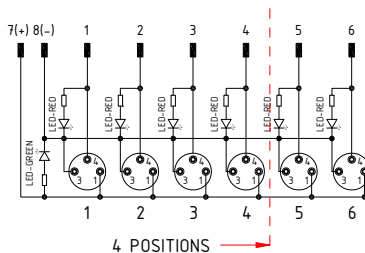
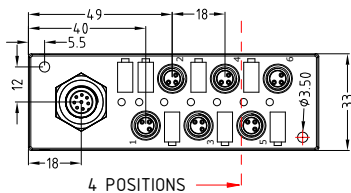
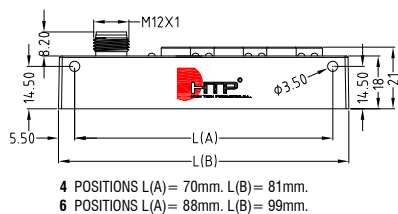
**Operating temperature :**  
-40°C +90°C.



J08M4B3

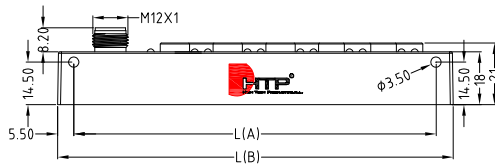


J08M6B3

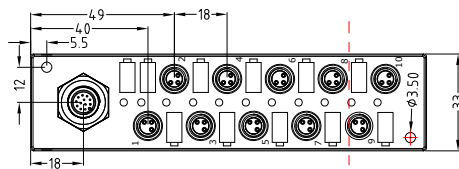




J08M8B3



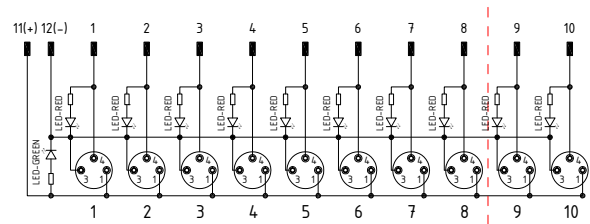
8 POSITIONS L(A) = 105.75mm. L(B) = 116.75mm.  
10 POSITIONS L(A) = 123.50mm. L(B) = 134.90mm.



8 POSITIONS



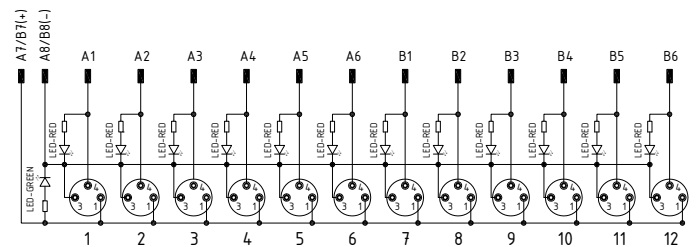
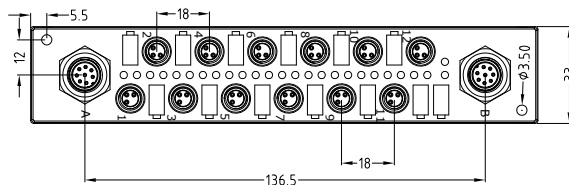
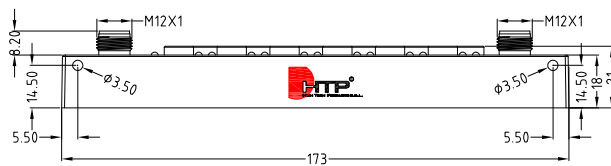
J08M10B3



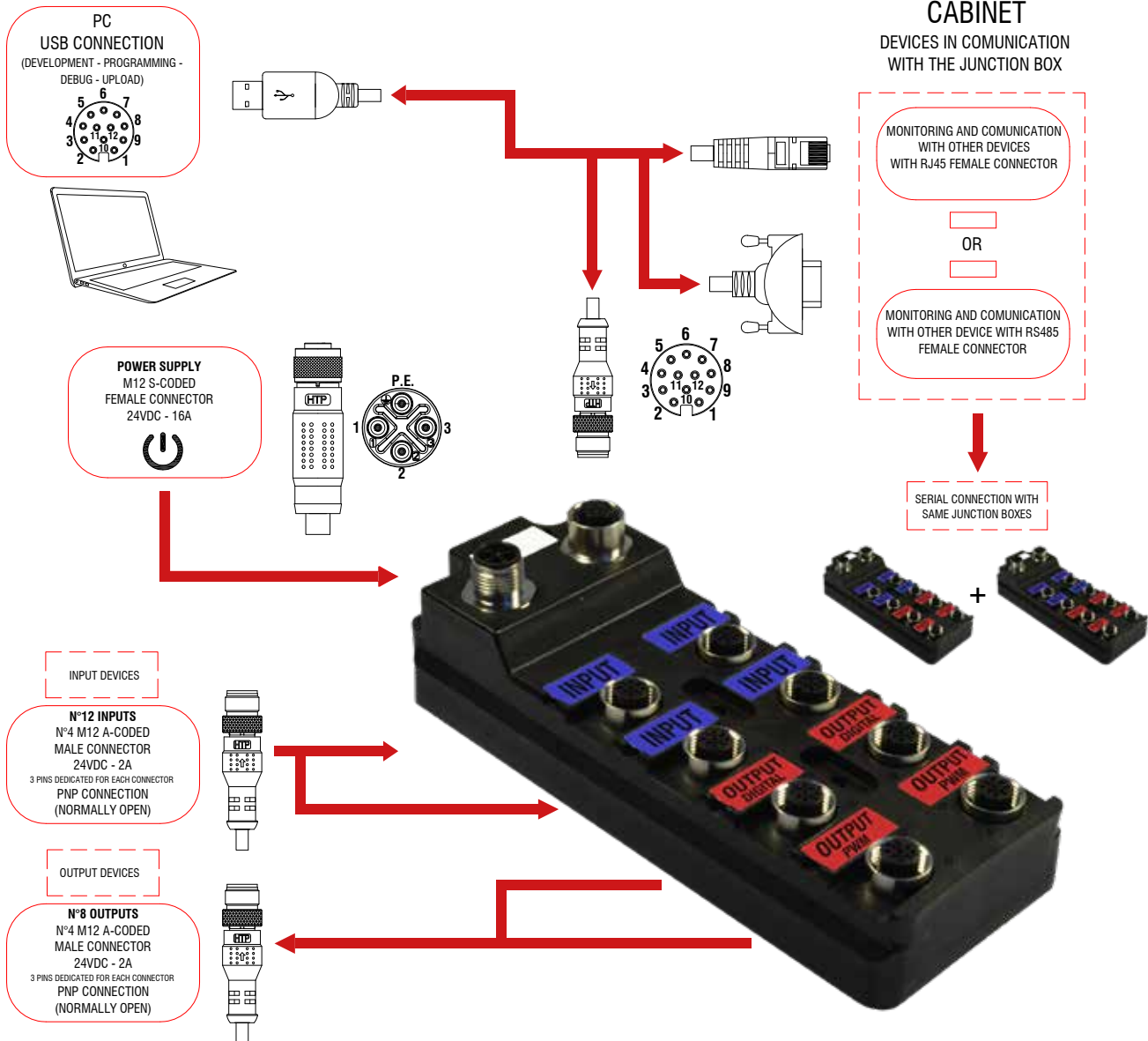
8 POSITIONS



J08M12B3

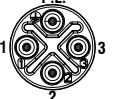
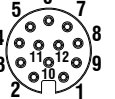
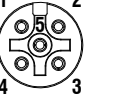
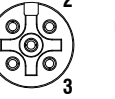


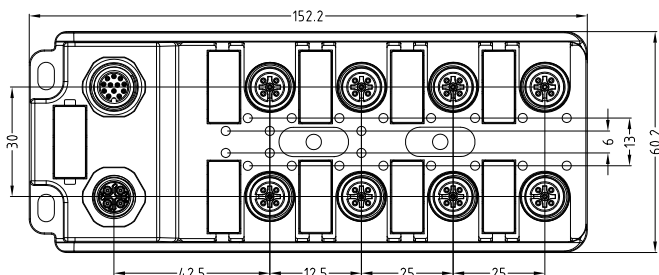
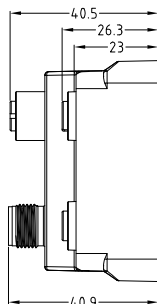
# IP67 SMART JUNCTION BOX WITH INTEGRATED PLC



## IP67



| POWER CONNECTOR                                                                     |                          | PROGRAMMING CONNECTOR                                                               |                             | INPUTS CONNECTOR                                                                     |                            | OUTPUTS CONNECTOR                                                                     |                            |
|-------------------------------------------------------------------------------------|--------------------------|-------------------------------------------------------------------------------------|-----------------------------|--------------------------------------------------------------------------------------|----------------------------|---------------------------------------------------------------------------------------|----------------------------|
|  | M12 S-CODED MALE 4 POLES |  | M12 A-CODED FEMALE 12 POLES |  | M12 A-CODED FEMALE 5 POLES |  | M12 A-CODED FEMALE 4 POLES |
| FUNCTION                                                                            | PINS                     | FUNCTION                                                                            | PINS                        | FUNCTION                                                                             | PINS                       | FUNCTION                                                                              | PINS                       |
| POWER SUPPLY                                                                        | 1 - 3                    | PCB CONFIGURATION ONLY                                                              | 1 - 10<br>11 - 12           | POWER SUPPLY                                                                         | 1 - 3                      | POWER SUPPLY                                                                          | 1 - 3                      |
| OUTPUTS DIGITAL/ PWM SIGNALS                                                        | 2 - 4                    | USB I/O CONFIGURATION                                                               | 2 - 3 - 4 - 5               | INPUTS DIGITAL SIGNALS                                                               | 2 - 4 - 5                  | OUTPUTS DIGITAL/ PWM SIGNALS                                                          | 2 - 4                      |
|                                                                                     |                          | BUS OR ETHERNET COMMUNICATION                                                       | 6 - 7 - 8 - 9               |                                                                                      |                            |                                                                                       |                            |



| General features                                                                                                                  | Power supply                                                                                                                                                                                   | Programming                         | Inputs                   | Outputs                  |
|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|--------------------------|--------------------------|
| Connectors qty                                                                                                                    | n°1                                                                                                                                                                                            | n°1                                 | n°4                      | n°4                      |
| Connector type                                                                                                                    | M12 S-coded                                                                                                                                                                                    | M12 A-coded                         | M12 A-coded              | M12 A-coded              |
| Contacts type                                                                                                                     | Male                                                                                                                                                                                           | Female                              | Female                   | Female                   |
| Number of contacts                                                                                                                | n°4                                                                                                                                                                                            | n°12                                | n°5                      | n°4                      |
| Rated voltage                                                                                                                     | 24V DC                                                                                                                                                                                         | 5V DC                               | 12V DC < Vn < 30V DC     | 24V DC                   |
| Rated current                                                                                                                     | 16A                                                                                                                                                                                            | -                                   | 2A                       | 2A                       |
| Electrical protection                                                                                                             | Overvoltage protection                                                                                                                                                                         | -                                   | Optoisolated connections | Optoisolated connections |
| Coupling nut material                                                                                                             | Brass + Nickel plated                                                                                                                                                                          |                                     |                          |                          |
| Housing material                                                                                                                  | PA66 UL94-V2                                                                                                                                                                                   |                                     |                          |                          |
| Protection class                                                                                                                  | IP67                                                                                                                                                                                           |                                     |                          |                          |
| Operating temperature                                                                                                             | -40°C + 90°C                                                                                                                                                                                   |                                     |                          |                          |
| I/O features                                                                                                                      | Signal circuit type                                                                                                                                                                            | Signal contacts qty                 | Signal type              |                          |
| Inputs                                                                                                                            | PNP                                                                                                                                                                                            | n°12 (n°3 for each connector)       | digital*                 |                          |
| Outputs                                                                                                                           | PNP                                                                                                                                                                                            | n°8 (n°2 for each connector)        | n°4 digital* - n°4 PWM** |                          |
| *digital : Simply "ON/OFF" signal, without any subdivision - **PWM : Digital scalar signal, from 0%(value=0) to 100% (value=1023) |                                                                                                                                                                                                |                                     |                          |                          |
| Application features                                                                                                              | Development type                                                                                                                                                                               | Communication protocols             | Scans qty                | Scan qty                 |
| TaskScript studio                                                                                                                 | Grafic (Model-Based IDE)                                                                                                                                                                       | ModBUS/RTU, ModBUS/TCP, HTTP/TCP/IP | 10k scans/sec            | <0,2ms                   |
| Notes:                                                                                                                            | <ul style="list-style-type: none"> <li>User friendly programming language (Sequential function chart) derived from GRAFCET and IEC-61131-3</li> <li>Fast program-debug-deploy cycle</li> </ul> |                                     |                          |                          |

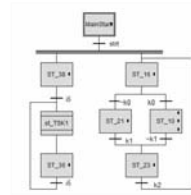
The application development environment is based on a graphical environment running upon the Windows Operating systems (from Windows XP to Windows 10), which assists the designer throughout the whole design cycle of an embedded application, from the sketch of the first modules to the deployment of the executable code to the target physical board.

The main supported phases are:

- Modeling of the solution using the graphical language;
- Validation of the design and code generation;
- Simulation of the design, possibly interacting with a model of the controlled periphery;
- Upload of the embedded application to the target physical junction box;
- Test of the design within the physical environment.
- Diagnosis of the physical environment.

#### Modeling of the solution using the graphical language

The graphical language is based on GRAFCET and IEC-61131-3, composed by flow chart of steps; each of them contains one or more tasks; that is made of connections between I/O using mathematics and Boolean's gates.





| PLC Junction Box KIT features                                                                                                                                                                                                                                  | Part number       | Packing                                            | Quantity |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------------------------------------------------|----------|
| Junction box PLC KIT                                                                                                                                                                                                                                           | J12R8B5-KIT-PLC   | carton box (complete of the products below)        | n°1      |
| <b>KIT components features</b>                                                                                                                                                                                                                                 |                   |                                                    |          |
| PLC Junction box                                                                                                                                                                                                                                               | J12R8B5-PLC       | carton box (complete of general information sheet) | n°1      |
| Power connector                                                                                                                                                                                                                                                | S-12FD4B5Z-PLC    | plastic bag (complete of wiring diagram sheet)     | n°1      |
| USB connector                                                                                                                                                                                                                                                  | 12MA12XX5ZUSB-PLC | plastic bag (complete of wiring diagram sheet)     | n°1      |
| <b>Notes:</b> <ul style="list-style-type: none"> <li>Usually to get the Junction Box is needed to buy the KIT complete of components</li> <li>In special cases it is possible to buy a part of the kit, please contact us to verify the feasibility</li> </ul> |                   |                                                    |          |



J12R8B5-PLC



12MA12XX5ZUSB-PLC



S-12FD4B5Z-PLC

| PLC Junction Box accessories                                                                                         | Part number        | Packing                                       |
|----------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------------------------|
| RS485 connector part number                                                                                          | 12MA12A5ZMB-PLC    | pastic bag (complete of wiring diagram sheet) |
| INPUT connector part number                                                                                          | A5B0C-C3-C3-C3-PLC | pastic bag (complete of wiring diagram sheet) |
| OUTPUT connector part number                                                                                         | A4B0C-C3-C3-PLC    | pastic bag (complete of wiring diagram sheet) |
| <b>Notes:</b> <ul style="list-style-type: none"> <li>please contact us to verify the MOQ to place a order</li> </ul> |                    |                                               |



12MA12A5ZMB-PLC



A5B0C-C3-C3-C3-PLC



A4B0C-C3-C3-PLC

## ● GENERAL FEATURES:

**Type of terminations :**  
Terminal block with screws.

**Cable Gland :**  
PG13.5 :  $\varnothing$  CABLE 7 - 12mm.

**Conductor cross section :**  
0.14(26AWG)...1.5mm<sup>2</sup>(16AWG).

**Circuit type :**  
PNP circuit.  
NPN circuit (upon request).

**Local diagnostic :**  
Supply voltage: Green Led.  
Status display I/O: Red Led.

**SIGNAL per OUTLET:**  
Double.  
Single(upon request).

**Rated voltage:**  
10-30V DC.

**Rated current:**  
Current carrying capacity per I/O signal: 2A.  
Current carrying capacity per slot: 4A.  
Total rated current: 10A.

**Fixing system :**  
M12 coupling nut.

**Max. screw torque IEC60947-1 :**  
M12 coupling nut torque 0.4N\*m.

**M12 Contact material and treatment :**  
Brass + Gold flash.

**Housing material :**  
PA66 UL94-V2.

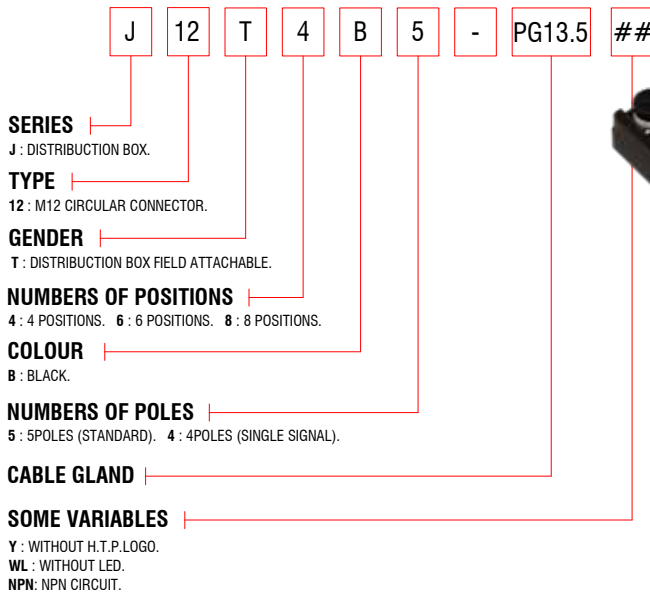
**Internal core material :**  
PA66 UL94-V2.

**Coupling nut material :**  
Brass + Nickel plated.

**Flammability resistance :**  
UL94-V2 - Standard.

**Protection class :**  
IP 67 (assembled).

**Operating temperature :**  
-40°C + 90°C.



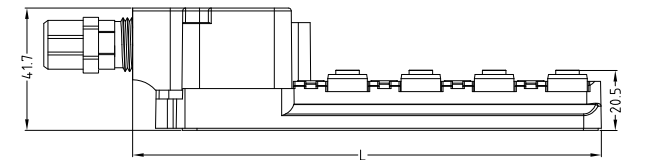
J12T4B...



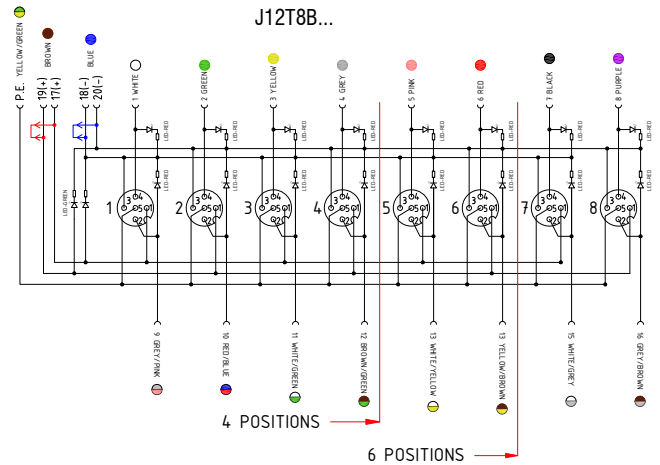
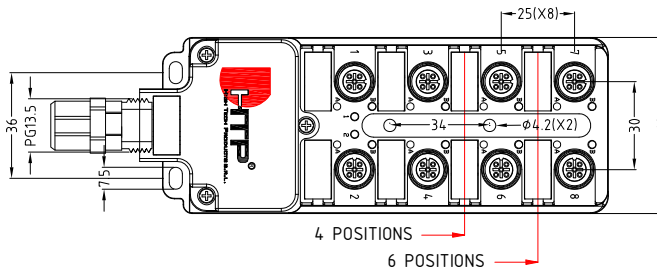
J12T6B...



J12T8B...



4 POSITIONS L = 110mm.  
6 POSITIONS L = 135mm.  
8 POSITIONS L = 160mm.





## ● GENERAL FEATURES:

### Type of terminations :

Moulded cable.

### Rated voltage:

10-30V DC.

### M12 Contact material and treatment :

Brass + Gold flash.

### Flammability resistance :

UL94-V2 - Standard.

### Circuit type :

PNP circuit.  
NPN circuit (upon request).

### Rated current:

Current carrying capacity per I/O signal: 2A.  
Current carrying capacity per slot: 4A.  
Total rated current: 10A.

### Housing material :

PA66 UL94-V2.

### Protection class :

IP 67 (assembled).

### Local diagnostic :

Supply voltage: Green Led.  
Status display I/O: Red Led.

### Fixing system :

M12 coupling nut.

### Internal core material :

PA66 UL94-V2.

### Operating temperature :

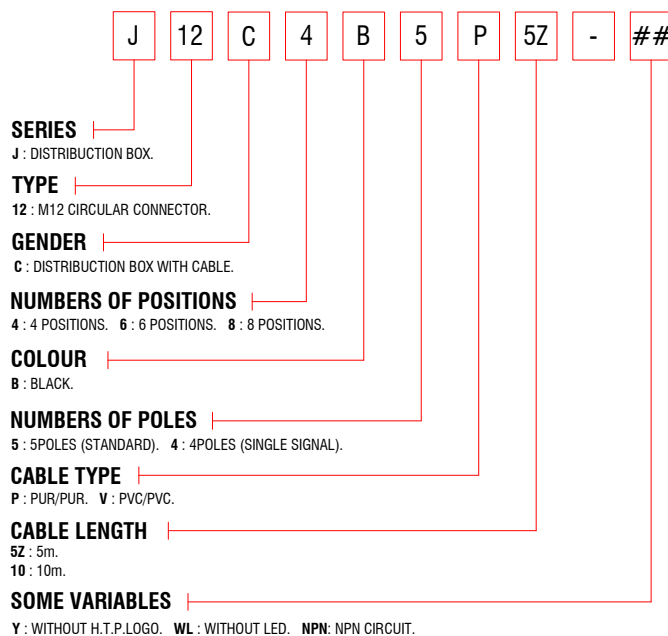
-40°C +90°C.

### SIGNAL per OUTLET:

Double.  
Single (upon request).

### Max. screw torque IEC60947-1 :

M12 coupling nut torque 0.4N\*m.



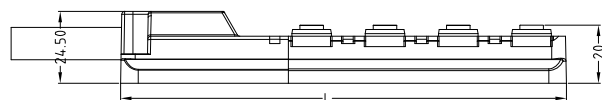
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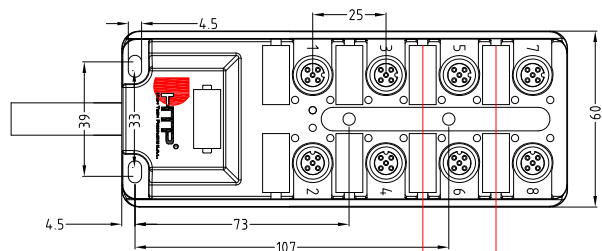
J12C6B...



J12C8B...

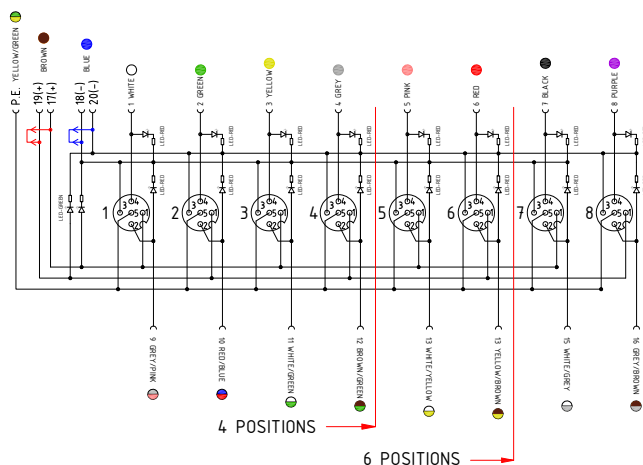


4 POSITIONS L = 102mm.  
6 POSITIONS L = 130mm.  
8 POSITIONS L = 150mm.



4 POSITIONS

6 POSITIONS



4 POSITIONS

6 POSITIONS

## ● GENERAL FEATURES:

**Type of terminations :**  
M23 connector.

**Circuit type :**  
PNP circuit.  
NPN circuit (upon request).

**Local diagnostic :**  
Supply voltage: Green Led.  
Status display I/O: Red Led.

**SIGNAL per OUTLET:**  
Double.  
Single(Upon request).

**Rated voltage:**  
10-30V DC.

**Rated current:**  
Current carrying capacity per I/O signal: 2A.  
Current carrying capacity per slot: 4A.  
Total rated current: 12A.

**Fixing system :**  
M12 coupling nut.

**Max. screw torque IEC60947-1 :**  
M12 coupling nut torque 0.4 N\*m.

**Contact material and treatment :**  
Brass + Gold flash.

**Housing material :**  
PA66 UL94-V2.

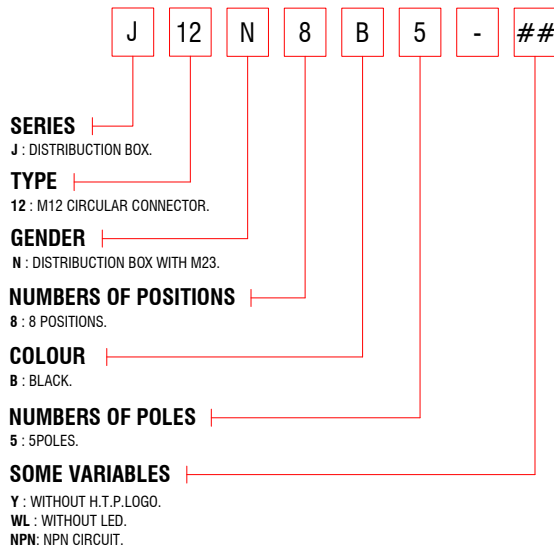
**Internal core material :**  
PA66 UL94-V2.

**Coupling nut material :**  
Brass + Nickel plated.

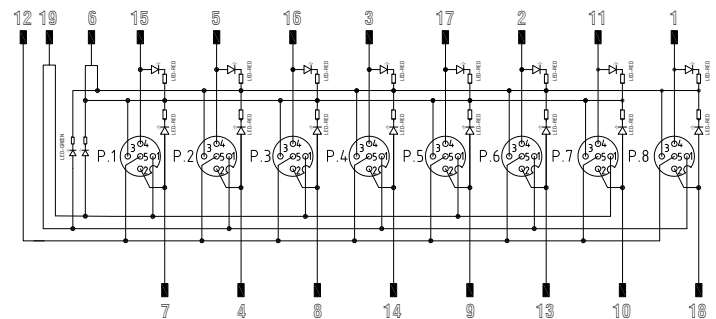
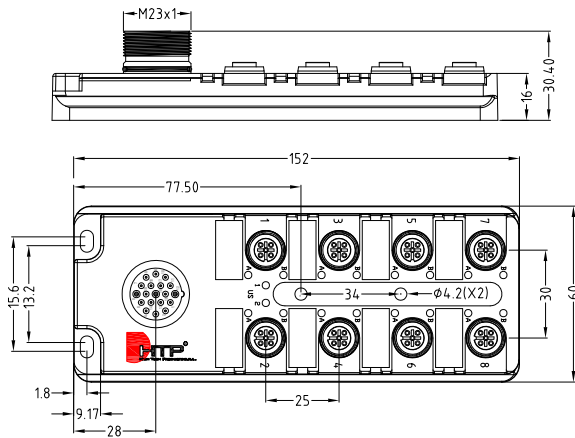
**Flammability resistance :**  
UL94-V2 - Standard.

**Protection class :**  
IP 67 (assembled).

**Operating temperature :**  
-40°C +90°C.



J12N8B5



**Notes:**

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



## AUTOMOTIVE / METRIPACK CONNECTORS



● GENERAL FEATURES OF MOULDED CONNECTORS:

**Conductor cross section :**  
0.34mm²(22AWG)...1(18AWG).

**Fixing system :**  
Suitable for Metri-pack system  
coupling.

**Type of terminations :**  
Crimped wires.

**Contact material and treatment :**  
Brass + tin plated.

**Contact seal material :**  
Round liquid silicone.

**Housing material :**  
Polypropylene.

**Nominal current :**  
7,5A.

**Max contact current :**  
15A.

**Protection class :**  
IP 67.

**Operating temperature :**  
-25°C +90°C

C866

3

B

1Z

-

##

**SERIES**

C866 : AUTOMOTIVE METRI-PACK series.

**NUMBERS OF POLES**

3 : 3POLES.

**CABLE TYPE**

SEE CABLES FEATURES TABLE.

**CABLE LENGTH**

1Z : 1m    A : +10cm

2Z : 2m    B : +20cm

3Z : 3m    C : +30cm

...        I : +90cm

EXAMPLE: "...1C" = 1.3m  
              "...1E" = 1.6m"  
              "...2A" = 2.1m"

**SOME VARIABLES**

S : Special stripping/peeling-tinning.



● AUTOMOTIVE CONNECTORS CABLES:

| Code | Material | Type of cable   | Colour       | Section | No.core | Cable ø<br>mm ±0.3 | Temperature range °C |
|------|----------|-----------------|--------------|---------|---------|--------------------|----------------------|
| 01   | PVC/PVC  | IEC332-1 H03VVF | Black        | 0.50mm² | 3       | ø5mm               | -20°C / +80°C        |
| 02   | PVC/PVC  | IEC332-1 H05VVF | Black        | 0.75mm² | 3       | ø6.7mm             | -20°C / +80°C        |
| B*   | PVC/PVC  | CEI2022         | Black        | 0.34mm² | 3       | ø 4.8mm            | -20°C / +80°C        |
| L    | PVC/PVC  | CEI2022         | Grey RAL7032 | 0.34mm² | 3       | ø 4.8mm            | -20°C / +80°C        |
| D*   | PUR/PUR  |                 | Black        | 0.34mm² | 3       | ø 4.8mm            | -40°C / +80°C        |
| BD*  | PUR/PUR  | Li-YY11Y        | Black        | 0.75mm² | 3       | ø6.7mm             | -40°C / +80°C        |

\* = Cables with minimum quantity required.

● **GENERAL FEATURES OF MOULDED CONNECTORS:**

**Conductor cross section :**  
0.34(22AWG)...0.75mm²(18AWG).

**Fixing system :**  
Interchangeable with DT series connector system.

**Type of terminations :**  
Crimping wires.

**Contact material and treatment :**  
Brass + tin plated.

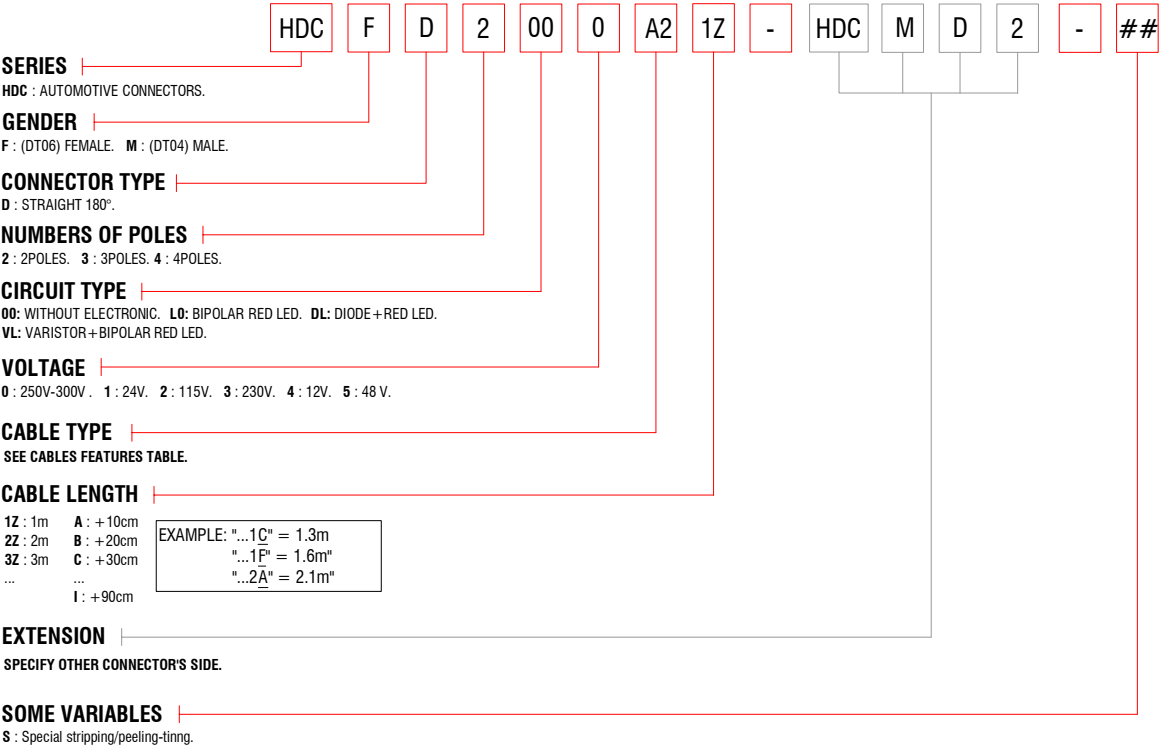
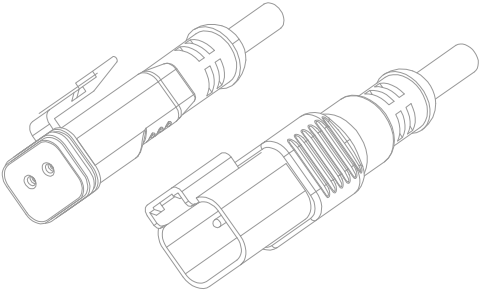
**Contact seal material :**  
Round liquid silicone.

**Housing material :**  
Polypropylene.

**Internal core material :**  
PA66.

**Protection class :**  
IP 67.

**Operating temperature :**  
-25°C +90°C.



● **AUTOMOTIVE CONNECTORS CABLES:**

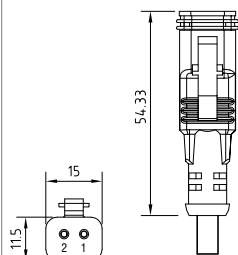
| Code | Material | Type of cable | Colour | Section | No.core | Cable ø<br>mm ±0.3 | Temperature range °C | Wires colouring        |
|------|----------|---------------|--------|---------|---------|--------------------|----------------------|------------------------|
| BA   | PUR/PUR  | Li-YY11Y      | Black  | 0.75mm² | 2       | ø 6.5mm            | -40°C / +80°C        | Brown;Blue             |
| BD   | PUR/PUR  | Li-YY11Y      | Black  | 0.75mm² | 3       | ø 6.7mm            | -40°C / +80°C        | Brown;Blue;Black       |
| BE   | PUR/PUR  | Li-YY11Y      | Black  | 0.75mm² | 4       | ø 7 mm             | -40°C / +80°C        | Brown;Blue;Black;White |

\* = Cables with minimum quantity required.

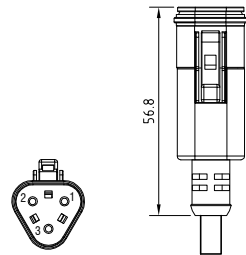


#### Technical drawing

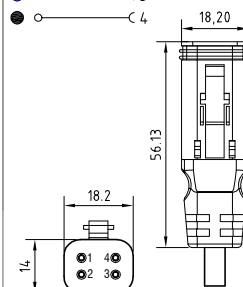
- — 1
- — 2



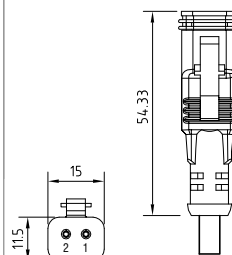
- — 1
- — 2
- — 3



- — 1
- — 2
- — 3
- — 4



- — 1
- — 2



#### Product description

|                    |                                                                                 |                                                                                 |                                                                                 |                                                                              |
|--------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| Connector type     | Automotive/Valve connector                                                      | Automotive/Valve connector                                                      | Automotive/Valve connector                                                      | Automotive/Valve connector                                                   |
| Interchangeable to | Deutsch DT06                                                                    | Deutsch DT06                                                                    | Deutsch DT06                                                                    | Deutsch DT06                                                                 |
| Construction type  | Valve connector DT series                                                       | Valve connector DT series                                                       | Valve connector DT series                                                       | Valve connector DT series                                                    |
| Description        | Automotive/Valve connector with moulded cable.<br>Connector without electronic. | Automotive/Valve connector with moulded cable.<br>Connector without electronic. | Automotive/Valve connector with moulded cable.<br>Connector without electronic. | Automotive/Valve connector with moulded cable.<br>Connector with electronic. |
| Part number        | <b>HDCFD2000BA1Z</b>                                                            | <b>HDCFD3000BD1Z</b>                                                            | <b>HDCFD4000BE1Z</b>                                                            | <b>HDCFD2L01BA1Z</b>                                                         |
| Housing type       | Straight 180°                                                                   | Straight 180°                                                                   | Straight 180°                                                                   | Straight 180°                                                                |
| Cable gland        | Moulded cable                                                                   | Moulded cable                                                                   | Moulded cable                                                                   | Moulded cable                                                                |
| Contacts type      | Female                                                                          | Female                                                                          | Female                                                                          | Female                                                                       |
| Number of contacts | 2poles                                                                          | 3poles                                                                          | 4poles                                                                          | 2poles                                                                       |
| Housing colour     | Black                                                                           | Black                                                                           | Black                                                                           | Transparent                                                                  |

#### Technical data

|                          |                            |                            |                            |                            |
|--------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Type of termination      | Contacts to crimping wires | Contacts to crimping wires | Contacts to crimping wires | Contacts to crimping wires |
| Contacts material        | Brass + Gold flash         | Brass + Gold flash         | Brass + Gold flash         | Brass + Gold flash         |
| Rated voltage            | 48 V AC/DC                 | 48 V AC/DC                 | 48 V AC/DC                 | 24 V AC/DC                 |
| Circuit type             | -                          | -                          | -                          | Bipolar Led                |
| Led colour               | -                          | -                          | -                          | Red                        |
| Rated current            | 8A                         | 8A                         | 8A                         | 4A                         |
| Gasket material          | Silicone                   | Silicone                   | Silicone                   | Silicone                   |
| Cable type               | PUR/PUR Li-YY11Y           | PUR/PUR Li-YY11Y           | PUR/PUR Li-YY11Y           | PUR/PUR Li-YY11Y           |
| Cable jacket colour      | Black                      | Black                      | Black                      | Black                      |
| No. Conductors / Section | 2x0.75mm²                  | 3x0.75mm²                  | 4x0.75mm²                  | 2x0.75mm²                  |
| Conductor colours        | Brown; Blue                | Brown; Blue ; Black        | Brown; White; Blue ; Black | Brown; Blue                |
| Cable diameter           | ø6.5mm (±0.3)              | ø6.7mm (±0.3)              | ø7mm (±0.3)                | ø6.5mm (±0.3)              |
| Cable length             | 1m                         | 1m                         | 1m                         | 1m                         |

#### Packaging

|         |            |            |            |            |
|---------|------------|------------|------------|------------|
| Qty/Bag | 1 pc / bag | 1 pc / bag | 1 pc / bag | 1 pc / bag |
|---------|------------|------------|------------|------------|

#### Other accessories options

See accessories section

#### Notes:

Connectors available with different features:  
See the general features and codification scheme page  
See the cables list section



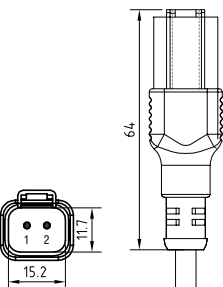
|                                                                                                                                                        |                                                                              |                                                                              |  |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------------------------------------|--|--|--|
| <b>Technical drawing</b>                                                                                                                               |                                                                              |                                                                              |  |  |  |
| <b>Product description</b>                                                                                                                             |                                                                              |                                                                              |  |  |  |
| Connector type                                                                                                                                         | Automotive/Valve connector                                                   | Automotive/Valve connector                                                   |  |  |  |
| Interchangeable to                                                                                                                                     | Deutsch DT06                                                                 | Deutsch DT06                                                                 |  |  |  |
| Construction type                                                                                                                                      | Valve connector DT series                                                    | Valve connector DT series                                                    |  |  |  |
| Description                                                                                                                                            | Automotive/Valve connector with moulded cable.<br>Connector with electronic. | Automotive/Valve connector with moulded cable.<br>Connector with electronic. |  |  |  |
| Part number                                                                                                                                            | <b>HDCFD2DL1BA1Z</b>                                                         | <b>HDCFD2VL1BA1Z</b>                                                         |  |  |  |
| Housing type                                                                                                                                           | Straight 180°                                                                | Straight 180°                                                                |  |  |  |
| Cable gland                                                                                                                                            | Moulded cable                                                                | Moulded cable                                                                |  |  |  |
| Contacts type                                                                                                                                          | Female                                                                       | Female                                                                       |  |  |  |
| Number of contacts                                                                                                                                     | 2poles                                                                       | 2poles                                                                       |  |  |  |
| Housing colour                                                                                                                                         | Transparent                                                                  | Transparent                                                                  |  |  |  |
| <b>Technical data</b>                                                                                                                                  |                                                                              |                                                                              |  |  |  |
| Type of termination                                                                                                                                    | Contacts to crimping wires                                                   | Contacts to crimping wires                                                   |  |  |  |
| Contacts material                                                                                                                                      | Brass + Gold flash                                                           | Brass + Gold flash                                                           |  |  |  |
| Rated voltage                                                                                                                                          | 24 V DC                                                                      | 24 V AC/DC                                                                   |  |  |  |
| Circuit type                                                                                                                                           | Led + Diode(1A)                                                              | Led + Varistor                                                               |  |  |  |
| Led colour                                                                                                                                             | Red                                                                          | Red                                                                          |  |  |  |
| Rated current                                                                                                                                          | 1A                                                                           | 1A                                                                           |  |  |  |
| Gasket material                                                                                                                                        | Silicone                                                                     | Silicone                                                                     |  |  |  |
| Cable type                                                                                                                                             | PUR/PUR Li-YY11Y                                                             | PUR/PUR Li-YY11Y                                                             |  |  |  |
| Cable jacket colour                                                                                                                                    | Black                                                                        | Black                                                                        |  |  |  |
| No. Conductors / Section                                                                                                                               | 2x0.75mm <sup>2</sup>                                                        | 2x0.75mm <sup>2</sup>                                                        |  |  |  |
| Conductor colours                                                                                                                                      | Brown; Blue                                                                  | Brown; Blue                                                                  |  |  |  |
| Cable diameter                                                                                                                                         | ø6.5mm (±0.3)                                                                | ø6.5mm (±0.3)                                                                |  |  |  |
| Cable length                                                                                                                                           | 1m                                                                           | 1m                                                                           |  |  |  |
| <b>Packaging</b>                                                                                                                                       |                                                                              |                                                                              |  |  |  |
| Qty/Bag                                                                                                                                                | 1 pc / bag                                                                   | 1 pc / bag                                                                   |  |  |  |
| <b>Other accessories options</b>                                                                                                                       |                                                                              |                                                                              |  |  |  |
| See accessories section                                                                                                                                |                                                                              |                                                                              |  |  |  |
| <b>Notes:</b><br>Connectors available with different feautres:<br>See the general features and codification scheme page<br>See the cables list section |                                                                              |                                                                              |  |  |  |



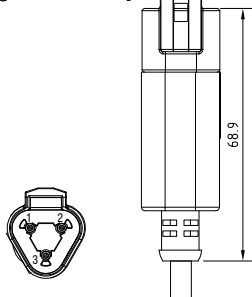


#### Technical drawing

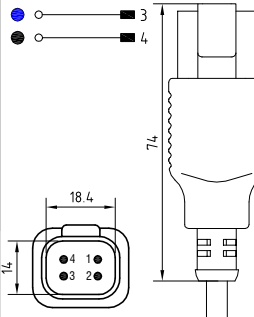
- — 1
- — 2



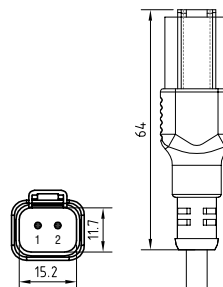
- — 1
- — 2
- — 3



- — 1
- — 2
- — 3
- — 4



- — 1
- — 2



#### Product description

|                    |                                                                                 |                                                                                 |                                                                                 |                                                                              |
|--------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| Connector type     | Automotive/Valve connector                                                      | Automotive/Valve connector                                                      | Automotive/Valve connector                                                      | Automotive/Valve connector                                                   |
| Interchangeable to | Deutsch DT04                                                                    | Deutsch DT04                                                                    | Deutsch DT04                                                                    | Deutsch DT04                                                                 |
| Construction type  | Valve connector DT series                                                       | Valve connector DT series                                                       | Valve connector DT series                                                       | Valve connector DT series                                                    |
| Description        | Automotive/Valve connector with moulded cable.<br>Connector without electronic. | Automotive/Valve connector with moulded cable.<br>Connector without electronic. | Automotive/Valve connector with moulded cable.<br>Connector without electronic. | Automotive/Valve connector with moulded cable.<br>Connector with electronic. |
| Part number        | <b>HDCMD2000BA1Z</b>                                                            | <b>HDCMD3000BD1Z</b>                                                            | <b>HDCMD4000BE1Z</b>                                                            | <b>HDCMD2L01BA1Z</b>                                                         |
| Housing type       | Straight 180°                                                                   | Straight 180°                                                                   | Straight 180°                                                                   | Straight 180°                                                                |
| Cable gland        | Moulded cable                                                                   | Moulded cable                                                                   | Moulded cable                                                                   | Moulded cable                                                                |
| Contacts type      | Male                                                                            | Male                                                                            | Male                                                                            | Male                                                                         |
| Number of contacts | 2poles                                                                          | 3poles                                                                          | 4poles                                                                          | 2poles                                                                       |
| Housing colour     | Black                                                                           | Black                                                                           | Black                                                                           | Transparent                                                                  |

#### Technical data

|                          |                            |                            |                            |                            |
|--------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Type of termination      | Contacts to crimping wires | Contacts to crimping wires | Contacts to crimping wires | Contacts to crimping wires |
| Contacts material        | Brass + Gold flash         | Brass + Gold flash         | Brass + Gold flash         | Brass + Gold flash         |
| Rated voltage            | 48 V AC/DC                 | 48 V AC/DC                 | 48 V AC/DC                 | 24 V AC/DC                 |
| Circuit type             | -                          | -                          | -                          | Bipolar Led                |
| Led colour               | -                          | -                          | -                          | Red                        |
| Rated current            | 8A                         | 8A                         | 8A                         | 4A                         |
| Gasket material          | -                          | -                          | -                          | -                          |
| Cable type               | PUR/PUR Li-YY11Y           | PUR/PUR Li-YY11Y           | PUR/PUR Li-YY11Y           | PUR/PUR Li-YY11Y           |
| Cable jacket colour      | Black                      | Black                      | Black                      | Black                      |
| No. Conductors / Section | 2x0.75mm <sup>2</sup>      | 3x0.75mm <sup>2</sup>      | 4x0.75mm <sup>2</sup>      | 2x0.75mm <sup>2</sup>      |
| Conductor colours        | Brown; Blue                | Brown; Blue ; Black        | Brown; White; Blue ; Black | Brown; Blue                |
| Cable diameter           | ø6.5mm (±0.3)              | ø6.7mm (±0.3)              | ø7mm (±0.3)                | ø6.5mm (±0.3)              |
| Cable length             | 1m                         | 1m                         | 1m                         | 1m                         |

#### Packaging

|         |            |            |            |            |
|---------|------------|------------|------------|------------|
| Qty/Bag | 1 pc / bag | 1 pc / bag | 1 pc / bag | 1 pc / bag |
|---------|------------|------------|------------|------------|

#### Other accessories options

See accessories section

#### Notes:

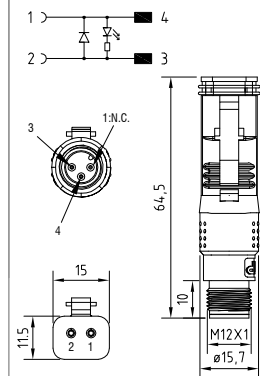
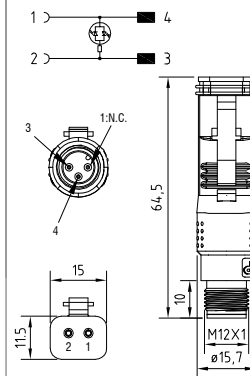
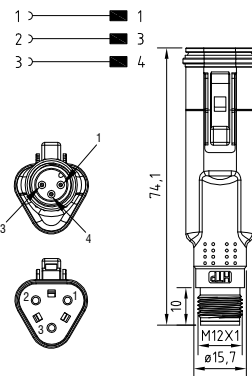
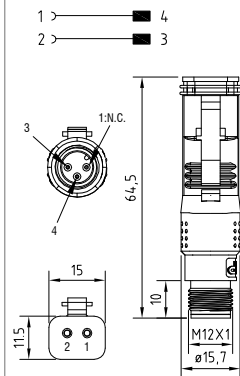
Connectors available with different features:  
See the general features and codification scheme page  
See the cables list section



|                                                                                                                                                        |                                                                              |                                                                              |  |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------------------------------------|--|--|--|
| <b>Technical drawing</b>                                                                                                                               |                                                                              |                                                                              |  |  |  |
| <b>Product description</b>                                                                                                                             |                                                                              |                                                                              |  |  |  |
| Connector type                                                                                                                                         | Automotive/Valve connector                                                   | Automotive/Valve connector                                                   |  |  |  |
| Interchangeable to                                                                                                                                     | Deutsch DT04                                                                 | Deutsch DT04                                                                 |  |  |  |
| Construction type                                                                                                                                      | Valve connector DT series                                                    | Valve connector DT series                                                    |  |  |  |
| Description                                                                                                                                            | Automotive/Valve connector with moulded cable.<br>Connector with electronic. | Automotive/Valve connector with moulded cable.<br>Connector with electronic. |  |  |  |
| Part number                                                                                                                                            | <b>HDCMD2DL1BA1Z</b>                                                         | <b>HDCMD2VL1BA1Z</b>                                                         |  |  |  |
| Housing type                                                                                                                                           | Straight 180°                                                                | Straight 180°                                                                |  |  |  |
| Cable gland                                                                                                                                            | Moulded cable                                                                | Moulded cable                                                                |  |  |  |
| Contacts type                                                                                                                                          | Male                                                                         | Male                                                                         |  |  |  |
| Number of contacts                                                                                                                                     | 2poles                                                                       | 2poles                                                                       |  |  |  |
| Housing colour                                                                                                                                         | Transparent                                                                  | Transparent                                                                  |  |  |  |
| <b>Technical data</b>                                                                                                                                  |                                                                              |                                                                              |  |  |  |
| Type of termination                                                                                                                                    | Contacts to crimping wires                                                   | Contacts to crimping wires                                                   |  |  |  |
| Contacts material                                                                                                                                      | Brass + Gold flash                                                           | Brass + Gold flash                                                           |  |  |  |
| Rated voltage                                                                                                                                          | 24 V DC                                                                      | 24 V DC                                                                      |  |  |  |
| Circuit type                                                                                                                                           | Led + Diode(1A)                                                              | Led + Varistor                                                               |  |  |  |
| Led colour                                                                                                                                             | Red                                                                          | Red                                                                          |  |  |  |
| Rated current                                                                                                                                          | 1A                                                                           | 1A                                                                           |  |  |  |
| Gasket material                                                                                                                                        | -                                                                            | -                                                                            |  |  |  |
| Cable type                                                                                                                                             | PUR/PUR Li-YY11Y                                                             | PUR/PUR Li-YY11Y                                                             |  |  |  |
| Cable jacket colour                                                                                                                                    | Black                                                                        | Black                                                                        |  |  |  |
| No. Conductors / Section                                                                                                                               | 2x0.75mm <sup>2</sup>                                                        | 2x0.75mm <sup>2</sup>                                                        |  |  |  |
| Conductor colours                                                                                                                                      | Brown; Blue                                                                  | Brown; Blue                                                                  |  |  |  |
| Cable diameter                                                                                                                                         | ø6.5mm (±0.3)                                                                | ø6.5mm (±0.3)                                                                |  |  |  |
| Cable length                                                                                                                                           | 1m                                                                           | 1m                                                                           |  |  |  |
| <b>Packaging</b>                                                                                                                                       |                                                                              |                                                                              |  |  |  |
| Qty/Bag                                                                                                                                                | 1 pc / bag                                                                   | 1 pc / bag                                                                   |  |  |  |
| <b>Other accessories options</b>                                                                                                                       |                                                                              |                                                                              |  |  |  |
| See accessories section                                                                                                                                |                                                                              |                                                                              |  |  |  |
| <b>Notes:</b><br>Connectors available with different feautres:<br>See the general features and codification scheme page<br>See the cables list section |                                                                              |                                                                              |  |  |  |



#### Technical drawing



#### Product description

|                              |                                                                                              |                                                                                              |                                                                                              |                                                                                              |
|------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| Connector type               | Automotive-M12 adapter                                                                       | Automotive-M12 adapter                                                                       | Automotive-M12 adapter                                                                       | Automotive-M12 adapter                                                                       |
| Interchangeable to           | Deutsch DT06                                                                                 | Deutsch DT06                                                                                 | Deutsch DT06                                                                                 | Deutsch DT06                                                                                 |
| Description                  | Adapter with automotive connector (interchangeable to Deutsch DT connector) + M12 connector. | Adapter with automotive connector (interchangeable to Deutsch DT connector) + M12 connector. | Adapter with automotive connector (interchangeable to Deutsch DT connector) + M12 connector. | Adapter with automotive connector (interchangeable to Deutsch DT connector) + M12 connector. |
| Part number                  | <b>HDCFD2000-12MD</b>                                                                        | <b>HDCFD3000-12MD</b>                                                                        | <b>HDCFD2L01-12MD</b>                                                                        | <b>HDCFD2DL1-12MD</b>                                                                        |
| Housing type                 | Straight 180°                                                                                | Straight 180°                                                                                | Straight 180°                                                                                | Straight 180°                                                                                |
| Contacts type                | Female                                                                                       | Female                                                                                       | Female                                                                                       | Female                                                                                       |
| Number of contacts           | 2poles                                                                                       | 3poles                                                                                       | 2poles                                                                                       | 2poles                                                                                       |
| Housing colour               | Black                                                                                        | Black                                                                                        | Transparent                                                                                  | Transparent                                                                                  |
| Circular connector type      | M12                                                                                          | M12                                                                                          | M12                                                                                          | M12                                                                                          |
| M12 Connector type           | Straight 180°                                                                                | Straight 180°                                                                                | Straight 180°                                                                                | Straight 180°                                                                                |
| M12 contacts type            | Male 3poles                                                                                  | Male 3poles                                                                                  | Male 3poles                                                                                  | Male 3poles                                                                                  |
| Number of contacts connected | n°2                                                                                          | n°3                                                                                          | n°2                                                                                          | n°2                                                                                          |

#### Technical data

|                           |                            |                            |                            |                            |
|---------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Type of termination       | Contacts to crimping wires | Contacts to crimping wires | Contacts to crimping wires | Contacts to crimping wires |
| Contacts material         | Brass + Gold flash         | Brass + Gold flash         | Brass + Gold flash         | Brass + Gold flash         |
| M12 coupling nut material | Brass + Nickel plated      | Brass + Nickel plated      | Brass + Nickel plated      | Brass + Nickel plated      |
| Internalcores material    | PA                         | PA                         | PA                         | PA                         |
| Connector body material   | Polypropylene              | Polypropylene              | Polypropylene              | Polypropylene              |
| Rated voltage             | 48 V AC/DC                 | 48 V AC/DC                 | 24 V AC/DC                 | 24 V DC                    |
| Gasket material           | Silicone                   | Silicone                   | Silicone                   | Silicone                   |
| M12 o-ring material       | NBR                        | NBR                        | NBR                        | NBR                        |
| Circuit type              | -                          | -                          | Bipolar Led                | Led + Diode(1A)            |
| Led colour                | -                          | -                          | Red                        | Red                        |
| Rated current             | 4A                         | 4A                         | 1A                         | 1A                         |

#### Packaging

|         |            |            |            |            |
|---------|------------|------------|------------|------------|
| Qty/Bag | 1 pc / bag | 1 pc / bag | 1 pc / bag | 1 pc / bag |
|---------|------------|------------|------------|------------|

#### Other accessories options

|                         |  |  |  |  |
|-------------------------|--|--|--|--|
| See accessories section |  |  |  |  |
|-------------------------|--|--|--|--|

#### Notes:

Connector available with different led colour, circuits and voltages.

Connector available with different led colour, circuits and voltages.



HAS F D 3 BD 1Z HAS M D - ##

**SERIES**

HAS : SUPERSEAL 1.5 CONNECTOR

**GENDER**

F : FEMALE M : MALE

**CONNECTOR TYPE**

D : STRAIGHT 180°.

**NUMBERS OF POLES**

2 : 2POLES 3 : 3POLES 4 : 4POLES 5 : 5POLES 6 : 6POLES

**CABLE TYPE**

SEE CABLES FEATURES.

**CABLE LENGTH**

1Z : 1m A : +10cm  
2Z : 2m B : +20cm  
3Z : 3m C : +30cm  
...  
I : +90cm

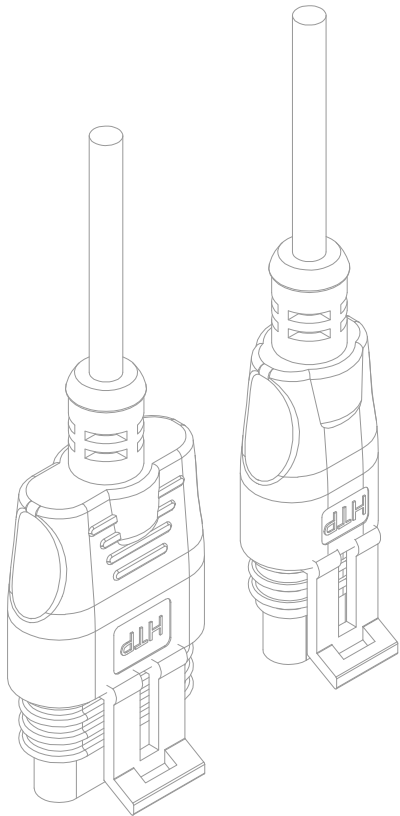
EXAMPLE: "...1C" = 1.3m  
"...1F" = 1.6m  
"...2A" = 2.1m

**EXTENSION**

SPECIFY OTHER CONNECTOR'S SIDE

**SOME VARIABLES**

S : SPECIAL STRIPPING/PEELING-TINNING. Y : WITHOUT H.T.P.LOGO.



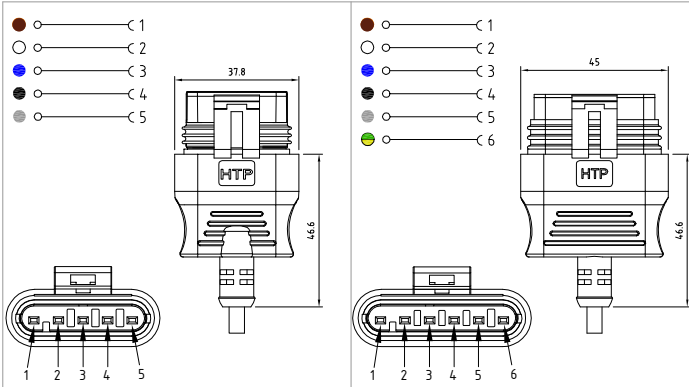
● **SUPERSEAL CONNECTORS CABLES:**

| Code | Material | Type of cable | Colour | Section | No.core | Cable ø<br>mm ±0.3 | Temperature range °C | Wires colouring                         |
|------|----------|---------------|--------|---------|---------|--------------------|----------------------|-----------------------------------------|
| BA   | PUR/PUR  | Li-YY11Y      | Black  | 0.75mm² | 2       | ø 6.5mm            | -40°C / +80°C        | Brown;Blue                              |
| BD   | PUR/PUR  | Li-YY11Y      | Black  | 0.75mm² | 3       | ø 6.7mm            | -40°C / +80°C        | Brown;Blue;Black                        |
| BE   | PUR/PUR  | Li-YY11Y      | Black  | 0.75mm² | 4       | ø 7 mm             | -40°C / +80°C        | Brown;Blue;Black;White                  |
| BF   | PUR/PUR  | Li-YY11Y      | Black  | 0.75mm² | 5       | ø 7.5 mm           | -40°C / +80°C        | Brown;Blue;Black;White;Grey             |
| BG*  | PUR/PUR  | Li-YY11Y      | Black  | 0.75mm² | 6       | ø 8 mm             | -40°C / +80°C        | Green; Brown; White; Pink; Grey; Yellow |

\* = Cables with minimum quantity required.



|                                  |                                                                                |                                                                                |                                                                                |
|----------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| <b>Technical drawing</b>         |                                                                                |                                                                                |                                                                                |
|                                  |                                                                                |                                                                                |                                                                                |
| <b>Product description</b>       |                                                                                |                                                                                |                                                                                |
| Connector type                   | Automotive connector                                                           | Automotive connector                                                           | Automotive connector                                                           |
| Interchangeable to               | Superseal connector                                                            | Superseal connector                                                            | Superseal connector                                                            |
| Description                      | Automotive connector interchangeable to superseal connector with moulded cable | Automotive connector interchangeable to superseal connector with moulded cable | Automotive connector interchangeable to superseal connector with moulded cable |
| Part number                      | <b>HASFD2BA1Z</b>                                                              | <b>HASFD3BD1Z</b>                                                              | <b>HASFD4BE1Z</b>                                                              |
| Housing type                     | Straight 180°                                                                  | Straight 180°                                                                  | Straight 180°                                                                  |
| Cable gland                      | Moulded cable                                                                  | Moulded cable                                                                  | Moulded cable                                                                  |
| Contacts type                    | Female                                                                         | Female                                                                         | Female                                                                         |
| Number of contacts               | 2poles                                                                         | 3poles                                                                         | 4poles                                                                         |
| Housing colour                   | Black                                                                          | Black                                                                          | Black                                                                          |
| <b>Technical data</b>            |                                                                                |                                                                                |                                                                                |
| Type of termination              | Contacts to crimp wires                                                        | Contacts to crimp wires                                                        | Contacts to crimp wires                                                        |
| Contacts material                | Brass + Sn                                                                     | Brass + Sn                                                                     | Brass + Sn                                                                     |
| Internalcore material            | PA + GF, PA                                                                    | PA + GF, PA                                                                    | PA + GF, PA                                                                    |
| Connector body material          | Polypropylene                                                                  | Polypropylene                                                                  | Polypropylene                                                                  |
| Seal material                    | Silicone                                                                       | Silicone                                                                       | Silicone                                                                       |
| Rated voltage                    | 24V DC                                                                         | 24V DC                                                                         | 24V DC                                                                         |
| Rated current                    | 8A                                                                             | 8A                                                                             | 7A                                                                             |
| Protection class                 | IP67                                                                           | IP67                                                                           | IP67                                                                           |
| Operating temperature            | -25°C +90°C                                                                    | -25°C +90°C                                                                    | -25°C +90°C                                                                    |
| Cable type                       | PUR/PUR Li-YY11Y                                                               | PUR/PUR Li-YY11Y                                                               | PUR/PUR Li-YY11Y                                                               |
| Cable jacket colour              | Black                                                                          | Black                                                                          | Black                                                                          |
| No. Conductors / Section         | 2x0.75mm <sup>2</sup>                                                          | 3x0.75mm <sup>2</sup>                                                          | 4x0.75mm <sup>2</sup>                                                          |
| Conductor colours                | Brown; Blue                                                                    | Brown; Blue; Black                                                             | Brown; White; Blue; Black                                                      |
| Cable diameter                   | ø6.5mm (±0.3)                                                                  | ø6.7mm (±0.3)                                                                  | ø7mm (±0.3)                                                                    |
| Cable length                     | 1m                                                                             | 1m                                                                             | 1m                                                                             |
| <b>Packaging</b>                 |                                                                                |                                                                                |                                                                                |
| Qty/Bag                          | 1 pc / bag                                                                     | 1 pc / bag                                                                     | 1 pc / bag                                                                     |
| <b>Other accessories options</b> |                                                                                |                                                                                |                                                                                |
| See accessories section          |                                                                                |                                                                                |                                                                                |
| <b>Notes:</b>                    |                                                                                |                                                                                |                                                                                |



#### Product description

|                                                                                |                                                                                |
|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| Automotive connector                                                           | Automotive connector                                                           |
| Superseal connector                                                            | Superseal connector                                                            |
| Automotive connector interchangeable to superseal connector with moulded cable | Automotive connector interchangeable to superseal connector with moulded cable |
| <b>HASFD5BF1Z</b>                                                              | <b>HASFD6BG1Z</b>                                                              |
| Straight 180°                                                                  | Straight 180°                                                                  |
| Moulded cable                                                                  | Moulded cable                                                                  |
| Female                                                                         | Female                                                                         |
| 5poles                                                                         | 6poles                                                                         |
| Black                                                                          | Black                                                                          |

#### Technical data

|                                 |                                        |
|---------------------------------|----------------------------------------|
| Contacts to crimp wires         | Contacts to crimp wires                |
| Brass + Sn                      | Brass + Sn                             |
| PA + GF, PA                     | PA + GF, PA                            |
| Polypropylene                   | Polypropylene                          |
| Silicone                        | Silicone                               |
| 24V DC                          | 24V DC                                 |
| 7A                              | 6A                                     |
| IP67                            | IP67                                   |
| -25°C +90°C                     | -25°C +90°C                            |
| PUR/PUR Li-YY11Y                | PUR/PUR Li-YY11Y                       |
| Black                           | Black                                  |
| 5x0.75mm <sup>2</sup>           | 6x0.75mm <sup>2</sup>                  |
| Brown; White; Blue; Black; Grey | Green; Brown; White; Pink; Grey;Yellow |
| ø7.5mm (±0.3)                   | ø8mm (±0.3)                            |
| 1m                              | 1m                                     |

#### Packaging

|            |            |
|------------|------------|
| 1 pc / bag | 1 pc / bag |
|------------|------------|

#### Other accessories options

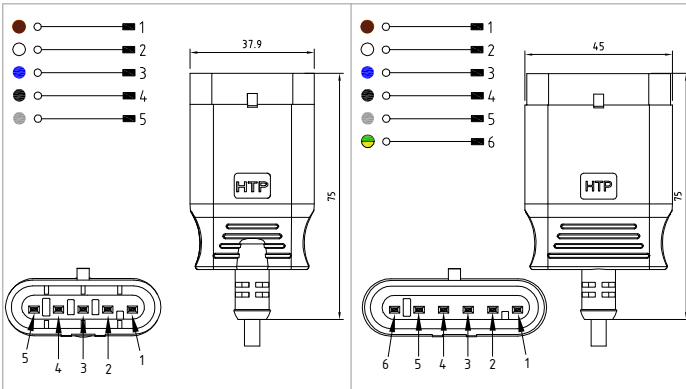
See accessories section

#### Notes:



|                                  |                                                                                |                                                                                |                                                                                |
|----------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| <b>Technical drawing</b>         |                                                                                |                                                                                |                                                                                |
|                                  |                                                                                |                                                                                |                                                                                |
| <b>Product description</b>       |                                                                                |                                                                                |                                                                                |
| Connector type                   | Automotive connector                                                           | Automotive connector                                                           | Automotive connector                                                           |
| Interchangeable to               | Superseal connector                                                            | Superseal connector                                                            | Superseal connector                                                            |
| Description                      | Automotive connector interchangeable to superseal connector with moulded cable | Automotive connector interchangeable to superseal connector with moulded cable | Automotive connector interchangeable to superseal connector with moulded cable |
| Part number                      | <b>HASMD2BA1Z</b>                                                              | <b>HASMD3BD1Z</b>                                                              | <b>HASMD4BE1Z</b>                                                              |
| Housing type                     | Straight 180°                                                                  | Straight 180°                                                                  | Straight 180°                                                                  |
| Cable gland                      | Moulded cable                                                                  | Moulded cable                                                                  | Moulded cable                                                                  |
| Contacts type                    | Male                                                                           | Male                                                                           | Male                                                                           |
| Number of contacts               | 2poles                                                                         | 3poles                                                                         | 4poles                                                                         |
| Housing colour                   | Black                                                                          | Black                                                                          | Black                                                                          |
| <b>Technical data</b>            |                                                                                |                                                                                |                                                                                |
| Type of termination              | Contacts to crimp wires                                                        | Contacts to crimp wires                                                        | Contacts to crimp wires                                                        |
| Contacts material                | Brass + Sn                                                                     | Brass + Sn                                                                     | Brass + Sn                                                                     |
| Internalcore material            | PA + GF, PA                                                                    | PA + GF, PA                                                                    | PA + GF, PA                                                                    |
| Connector body material          | Polypropylene                                                                  | Polypropylene                                                                  | Polypropylene                                                                  |
| Seal material                    | Silicone                                                                       | Silicone                                                                       | Silicone                                                                       |
| Rated voltage                    | 24V DC                                                                         | 24V DC                                                                         | 24V DC                                                                         |
| Rated current                    | 8A                                                                             | 8A                                                                             | 7A                                                                             |
| Protection class                 | IP67                                                                           | IP67                                                                           | IP67                                                                           |
| Operating temperature            | -25°C +90°C                                                                    | -25°C +90°C                                                                    | -25°C +90°C                                                                    |
| Cable type                       | PUR/PUR Li-YY11Y                                                               | PUR/PUR Li-YY11Y                                                               | PUR/PUR Li-YY11Y                                                               |
| Cable jacket colour              | Black                                                                          | Black                                                                          | Black                                                                          |
| No. Conductors / Section         | 2x0.75mm <sup>2</sup>                                                          | 3x0.75mm <sup>2</sup>                                                          | 4x0.75mm <sup>2</sup>                                                          |
| Conductor colours                | Brown; Blue                                                                    | Brown; Blue; Black                                                             | Brown; White; Blue; Black                                                      |
| Cable diameter                   | ø6.5mm (±0.3)                                                                  | ø6.7mm (±0.3)                                                                  | ø7mm (±0.3)                                                                    |
| Cable length                     | 1m                                                                             | 1m                                                                             | 1m                                                                             |
| <b>Packaging</b>                 |                                                                                |                                                                                |                                                                                |
| Qty/Bag                          | 1 pc / bag                                                                     | 1 pc / bag                                                                     | 1 pc / bag                                                                     |
| <b>Other accessories options</b> |                                                                                |                                                                                |                                                                                |
| See accessories section          |                                                                                |                                                                                |                                                                                |
| <b>Notes:</b>                    |                                                                                |                                                                                |                                                                                |





#### Product description

|                                                                                |                                                                                |
|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| Automotive connector                                                           | Automotive connector                                                           |
| Superseal connector                                                            | Superseal connector                                                            |
| Automotive connector interchangeable to superseal connector with moulded cable | Automotive connector interchangeable to superseal connector with moulded cable |
| <b>HASMD5BF1Z</b>                                                              | <b>HASMD6BG1Z</b>                                                              |
| Straight 180°                                                                  | Straight 180°                                                                  |
| Moulded cable                                                                  | Moulded cable                                                                  |
| Male                                                                           | Male                                                                           |
| 5poles                                                                         | 6poles                                                                         |
| Black                                                                          | Black                                                                          |

#### Technical data

|                                 |                                        |
|---------------------------------|----------------------------------------|
| Contacts to crimp wires         | Contacts to crimp wires                |
| Brass + Sn                      | Brass + Sn                             |
| PA + GF, PA                     | PA + GF, PA                            |
| Polypropylene                   | Polypropylene                          |
| Silicone                        | Silicone                               |
| 24V DC                          | 24V DC                                 |
| 7A                              | 6A                                     |
| IP67                            | IP67                                   |
| -25°C +90°C                     | -25°C +90°C                            |
| PUR/PUR Li-YY11Y                | PUR/PUR Li-YY11Y                       |
| Black                           | Black                                  |
| 5x0.75mm <sup>2</sup>           | 6x0.75mm <sup>2</sup>                  |
| Brown; White; Blue; Black; Grey | Green; Brown; White; Pink; Grey;Yellow |
| ø7.5mm (±0.3)                   | ø8mm (±0.3)                            |
| 1m                              | 1m                                     |

#### Packaging

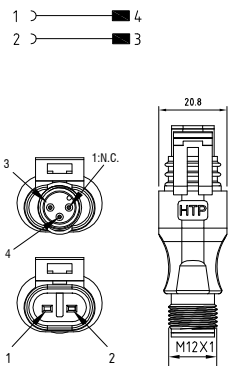
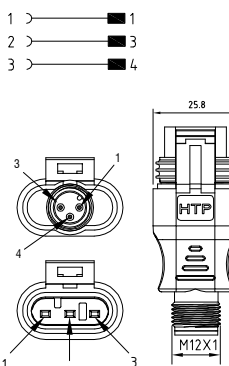
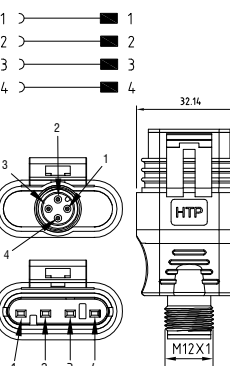
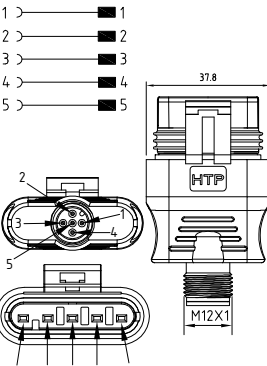
|            |            |
|------------|------------|
| 1 pc / bag | 1 pc / bag |
|------------|------------|

#### Other accessories options

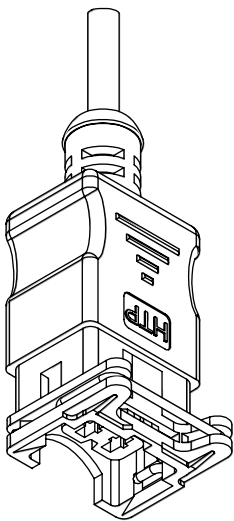
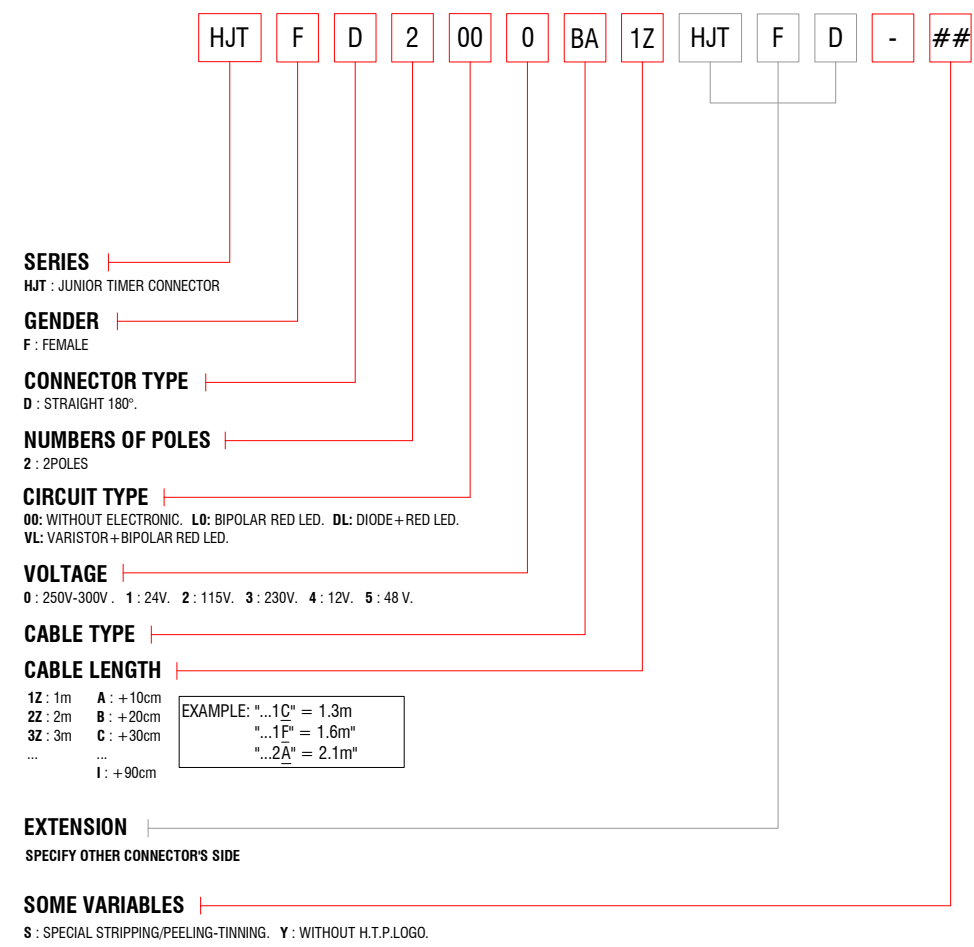
See accessories section

#### Notes:



|                                                                                                                                                        |                                                                                   |                                                                                        |                                                                                        |                                                                                        |                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| <b>Technical drawing</b>                                                                                                                               |  |       |      |     |                                                                                        |
|                                                                                                                                                        | <b>Product description</b>                                                        |                                                                                        |                                                                                        |                                                                                        |                                                                                        |
|                                                                                                                                                        | Connector type                                                                    | Automotive-M12 adapter                                                                 | Automotive-M12 adapter                                                                 | Automotive-M12 adapter                                                                 | Automotive-M12 adapter                                                                 |
|                                                                                                                                                        | Interchangeable to                                                                | Superseal connector                                                                    | Superseal connector                                                                    | Superseal connector                                                                    | Superseal connector                                                                    |
|                                                                                                                                                        | Description                                                                       | Adapter with automotive connector (interchangeable to superseal connector) + M12 conn. | Adapter with automotive connector (interchangeable to superseal connector) + M12 conn. | Adapter with automotive connector (interchangeable to superseal connector) + M12 conn. | Adapter with automotive connector (interchangeable to superseal connector) + M12 conn. |
| Part number                                                                                                                                            | <b>HASFD2000-12MD</b>                                                             | <b>HASFD2000-12MD</b>                                                                  | <b>HASFD4000-12MD</b>                                                                  | <b>HASFD5000-12MD</b>                                                                  |                                                                                        |
| Housing type                                                                                                                                           | Straight 180°                                                                     | Straight 180°                                                                          | Straight 180°                                                                          | Straight 180°                                                                          |                                                                                        |
| Contacts type                                                                                                                                          | Female                                                                            | Female                                                                                 | Female                                                                                 | Female                                                                                 |                                                                                        |
| Number of contacts                                                                                                                                     | 2poles                                                                            | 3poles                                                                                 | 4poles                                                                                 | 5poles                                                                                 |                                                                                        |
| Housing colour                                                                                                                                         | Black                                                                             | Black                                                                                  | Black                                                                                  | Black                                                                                  |                                                                                        |
| Circular connector type                                                                                                                                | M12                                                                               | M12                                                                                    | M12                                                                                    | M12                                                                                    |                                                                                        |
| M12 Connector type                                                                                                                                     | Straight 180°                                                                     | Straight 180°                                                                          | Straight 180°                                                                          | Straight 180°                                                                          |                                                                                        |
| M12 contacts type                                                                                                                                      | Male 3poles                                                                       | Male 3poles                                                                            | Male 4poles                                                                            | Male 5poles                                                                            |                                                                                        |
| Number of contacts connected                                                                                                                           | n°2                                                                               | n°3                                                                                    | n°4                                                                                    | n°5                                                                                    |                                                                                        |
| <b>Technical data</b>                                                                                                                                  |                                                                                   |                                                                                        |                                                                                        |                                                                                        |                                                                                        |
| Type of termination                                                                                                                                    | Contacts to crimping wires                                                        | Contacts to crimping wires                                                             | Contacts to crimping wires                                                             | Contacts to crimping wires                                                             |                                                                                        |
| Contacts material                                                                                                                                      | Brass + Sn , Brass+Gold flash                                                     | Brass + Sn , Brass+Gold flash                                                          | Brass + Sn , Brass+Gold flash                                                          | Brass + Sn , Brass+Gold flash                                                          |                                                                                        |
| M12 coupling nut material                                                                                                                              | Brass+Nickel plated                                                               | Brass+Nickel plated                                                                    | Brass+Nickel plated                                                                    | Brass+Nickel plated                                                                    |                                                                                        |
| Internalcores material                                                                                                                                 | PA+GF, PA                                                                         | PA+GF, PA                                                                              | PA+GF, PA                                                                              | PA+GF, PA                                                                              |                                                                                        |
| Connector body material                                                                                                                                | Polypropylene                                                                     | Polypropylene                                                                          | Polypropylene                                                                          | Polypropylene                                                                          |                                                                                        |
| Rated voltage                                                                                                                                          | 24 V DC                                                                           | 24 V DC                                                                                | 24 V DC                                                                                | 24 V DC                                                                                |                                                                                        |
| Gasket material                                                                                                                                        | Silicone                                                                          | Silicone                                                                               | Silicone                                                                               | Silicone                                                                               |                                                                                        |
| M12 o-ring material                                                                                                                                    | NBR                                                                               | NBR                                                                                    | NBR                                                                                    | NBR                                                                                    |                                                                                        |
| Circuit type                                                                                                                                           | -                                                                                 | -                                                                                      | -                                                                                      | -                                                                                      |                                                                                        |
| Led colour                                                                                                                                             | -                                                                                 | -                                                                                      | -                                                                                      | -                                                                                      |                                                                                        |
| Rated current                                                                                                                                          | 4A                                                                                | 4A                                                                                     | 4A                                                                                     | 4A                                                                                     |                                                                                        |
| <b>Packaging</b>                                                                                                                                       |                                                                                   |                                                                                        |                                                                                        |                                                                                        |                                                                                        |
| Qty/Bag                                                                                                                                                | 1 pc / bag                                                                        | 1 pc / bag                                                                             | 1 pc / bag                                                                             | 1 pc / bag                                                                             |                                                                                        |
| <b>Other accessories options</b>                                                                                                                       |                                                                                   |                                                                                        |                                                                                        |                                                                                        |                                                                                        |
| See accessories section                                                                                                                                |                                                                                   |                                                                                        |                                                                                        |                                                                                        |                                                                                        |
| <b>Notes:</b><br>Connectors available with different feautres:<br>See the general features and codification scheme page<br>See the cables list section |                                                                                   |                                                                                        |                                                                                        |                                                                                        |                                                                                        |

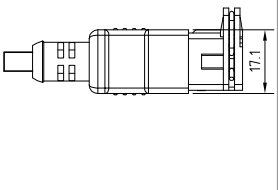
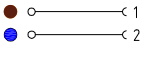
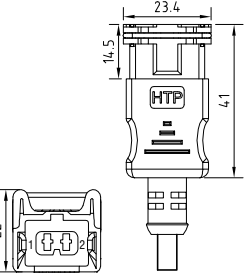
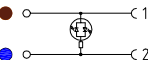
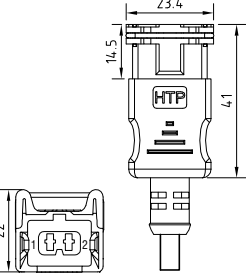
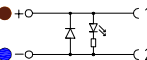
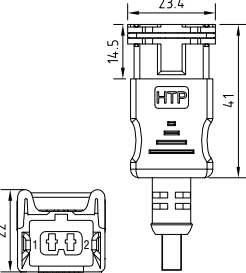
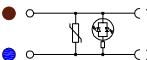
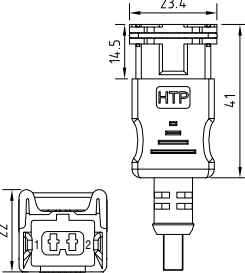
● **GENERAL FEATURES OF MOULDED CONNECTORS:**

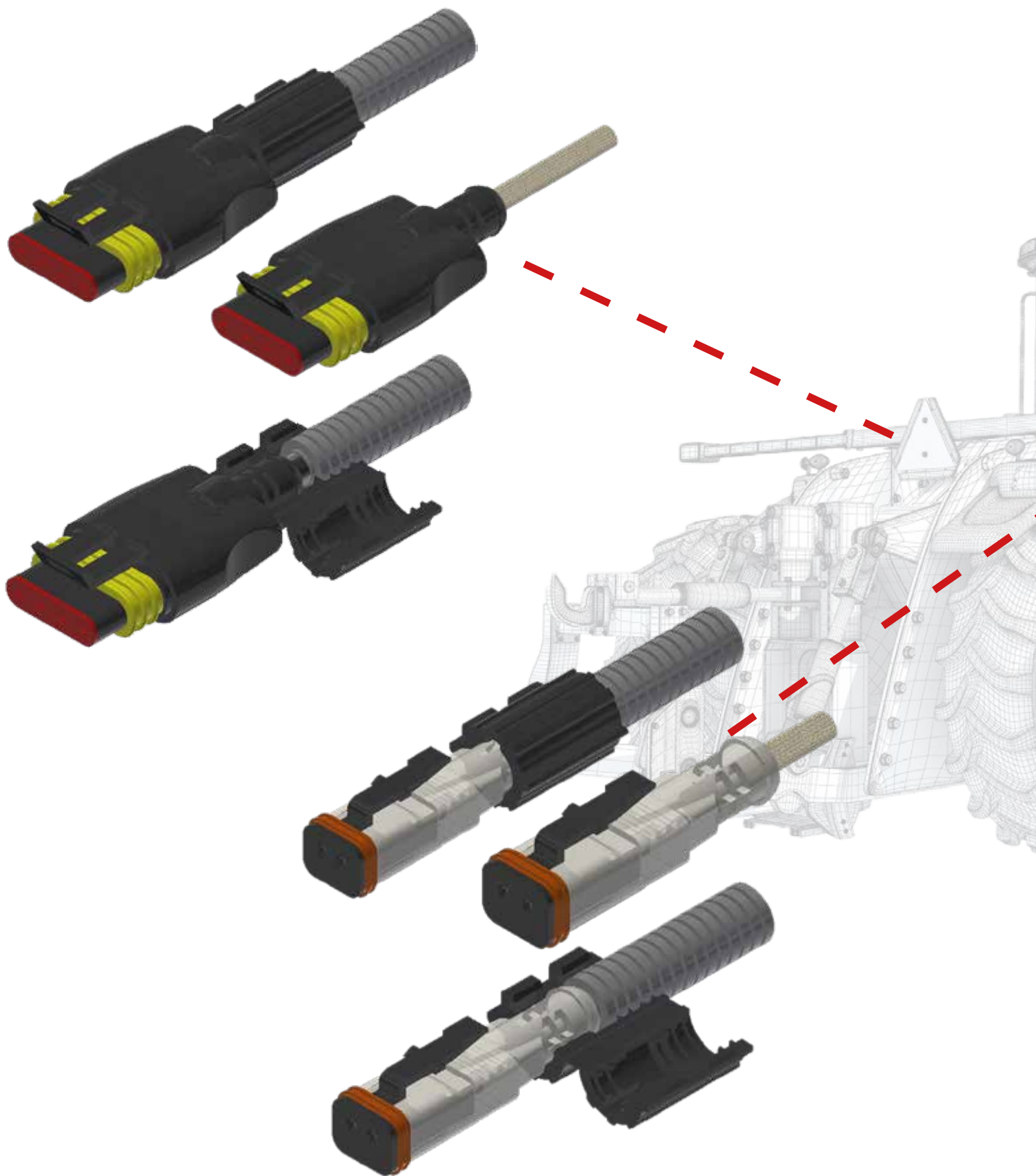


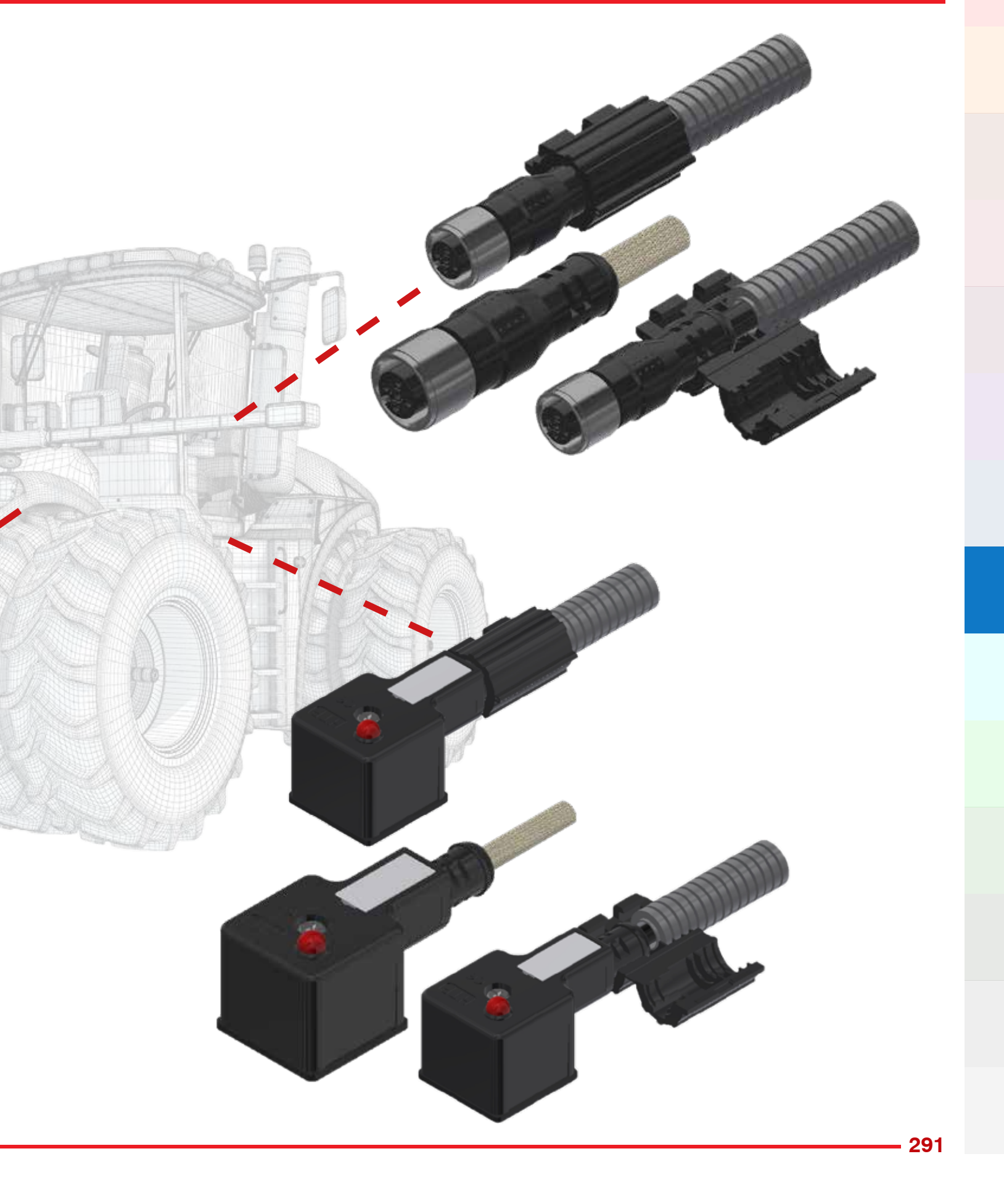
● **SUPERSEAL CONNECTORS CABLES:**

| Code | Material | Type of cable   | Colour | Section | No.core | Cable ø<br>mm ±0.3 | Temperature range °C | Wires colouring |
|------|----------|-----------------|--------|---------|---------|--------------------|----------------------|-----------------|
| A2   | PVC/PVC  | IEC332-1 H05VVF | Black  | 0.75mm² | 2       | ø 6mm              | -20°C / +80°C        | Brown;Blue      |
| A9   | PUR/PUR  |                 | Black  | 0.75mm² | 2       | ø 6mm              | -40°C / +80°C        | Brown;Blue      |
| BA   | PUR/PUR  | Li-YY11Y        | Black  | 0.75mm² | 2       | ø 6.5mm            | -40°C / +80°C        | Brown;Blue      |



|                                                                                                            |                                                                                                                                                                     |                                                                                                                                                                     |                                                                                                                                                                       |                                                                                                                                                                         |
|------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Technical drawing</b>  |                                                                                                                                                                     |                                                                                                                                                                     |                                                                                                                                                                       |                                                                                                                                                                         |
|                                                                                                            |   |   |   |   |
| <b>Product description</b>                                                                                 |                                                                                                                                                                     |                                                                                                                                                                     |                                                                                                                                                                       |                                                                                                                                                                         |
| Connector type                                                                                             | Automotive/Valve connector                                                                                                                                          | Automotive/Valve connector                                                                                                                                          | Automotive/Valve connector                                                                                                                                            | Automotive/Valve connector                                                                                                                                              |
| Interchangeable to                                                                                         | Junior Timer                                                                                                                                                        | Junior Timer                                                                                                                                                        | Junior Timer                                                                                                                                                          | Junior Timer                                                                                                                                                            |
| Description                                                                                                | Automotive connector with moulded cable.Connector without electronic.                                                                                               | Automotive connector with moulded cable.Connector with electronic.                                                                                                  | Automotive connector with moulded cable.Connector with electronic.                                                                                                    | Automotive connector with moulded cable.Connector with electronic.                                                                                                      |
| Part number                                                                                                | <b>HJTDFD2000BA1Z</b>                                                                                                                                               | <b>HJTDFD2L01BA1Z</b>                                                                                                                                               | <b>HJTDFD2DL1BA1Z</b>                                                                                                                                                 | <b>HJTDFD2VL1BA1Z</b>                                                                                                                                                   |
| Housing type                                                                                               | Straight 180°                                                                                                                                                       | Straight 180°                                                                                                                                                       | Straight 180°                                                                                                                                                         | Straight 180°                                                                                                                                                           |
| Cable gland                                                                                                | Moulded cable                                                                                                                                                       | Moulded cable                                                                                                                                                       | Moulded cable                                                                                                                                                         | Moulded cable                                                                                                                                                           |
| Contacts type                                                                                              | Female                                                                                                                                                              | Female                                                                                                                                                              | Female                                                                                                                                                                | Female                                                                                                                                                                  |
| Number of contacts                                                                                         | 2poles                                                                                                                                                              | 2poles                                                                                                                                                              | 2poles                                                                                                                                                                | 2poles                                                                                                                                                                  |
| Housing colour                                                                                             | Black                                                                                                                                                               | Transparent                                                                                                                                                         | Transparent                                                                                                                                                           | Transparent                                                                                                                                                             |
| <b>Technical data</b>                                                                                      |                                                                                                                                                                     |                                                                                                                                                                     |                                                                                                                                                                       |                                                                                                                                                                         |
| Type of termination                                                                                        | Contacts to crimping wires                                                                                                                                          | Contacts to crimping wires                                                                                                                                          | Contacts to crimping wires                                                                                                                                            | Contacts to crimping wires                                                                                                                                              |
| Contacts material                                                                                          | Brass + Gold flash                                                                                                                                                  | Brass + Gold flash                                                                                                                                                  | Brass + Gold flash                                                                                                                                                    | Brass + Gold flash                                                                                                                                                      |
| Internalcore material                                                                                      | PA66 + GF; Spring:Steel                                                                                                                                             | PA66 + GF; Spring:Steel                                                                                                                                             | PA66 + GF; Spring:Steel                                                                                                                                               | PA66 + GF; Spring:Steel                                                                                                                                                 |
| Connector body material                                                                                    | Polypropylene                                                                                                                                                       | Polypropylene                                                                                                                                                       | Polypropylene                                                                                                                                                         | Polypropylene                                                                                                                                                           |
| Rated voltage                                                                                              | 1-230 V AC/DC                                                                                                                                                       | 24 V AC/DC                                                                                                                                                          | 24 V DC                                                                                                                                                               | 24 V AC/DC                                                                                                                                                              |
| Circuit type                                                                                               | -                                                                                                                                                                   | Bipolar Led                                                                                                                                                         | Led + Diode(1A)                                                                                                                                                       | Led + Varistor                                                                                                                                                          |
| Led colour                                                                                                 | -                                                                                                                                                                   | Red                                                                                                                                                                 | Red                                                                                                                                                                   | Red                                                                                                                                                                     |
| Rated current                                                                                              | 4A                                                                                                                                                                  | 1A                                                                                                                                                                  | 1A                                                                                                                                                                    | 1A                                                                                                                                                                      |
| Protection class                                                                                           | IP65                                                                                                                                                                | IP65                                                                                                                                                                | IP65                                                                                                                                                                  | IP65                                                                                                                                                                    |
| Cable type                                                                                                 | PUR/PUR Li-YY11Y                                                                                                                                                    | PUR/PUR Li-YY11Y                                                                                                                                                    | PUR/PUR Li-YY11Y                                                                                                                                                      | PUR/PUR Li-YY11Y                                                                                                                                                        |
| Cable jacket colour                                                                                        | Black                                                                                                                                                               | Black                                                                                                                                                               | Black                                                                                                                                                                 | Black                                                                                                                                                                   |
| No.Conductors / Section                                                                                    | 2x0.75mm <sup>2</sup>                                                                                                                                               | 2x0.75mm <sup>2</sup>                                                                                                                                               | 2x0.75mm <sup>2</sup>                                                                                                                                                 | 2x0.75mm <sup>2</sup>                                                                                                                                                   |
| Conductor colours                                                                                          | Brown; Blue                                                                                                                                                         | Brown; Blue                                                                                                                                                         | Brown; Blue                                                                                                                                                           | Brown; Blue                                                                                                                                                             |
| Cable diameter                                                                                             | ø6.5mm (±0.3)                                                                                                                                                       | ø6.5mm (±0.3)                                                                                                                                                       | ø6.5mm (±0.3)                                                                                                                                                         | ø6.5mm (±0.3)                                                                                                                                                           |
| Cable length                                                                                               | 1m                                                                                                                                                                  | 1m                                                                                                                                                                  | 1m                                                                                                                                                                    | 1m                                                                                                                                                                      |
| <b>Packaging</b>                                                                                           |                                                                                                                                                                     |                                                                                                                                                                     |                                                                                                                                                                       |                                                                                                                                                                         |
| Qty/Bag                                                                                                    | 1 pc / bag                                                                                                                                                          | 1 pc / bag                                                                                                                                                          | 1 pc / bag                                                                                                                                                            | 1 pc / bag                                                                                                                                                              |
| <b>Other accessories options</b>                                                                           |                                                                                                                                                                     |                                                                                                                                                                     |                                                                                                                                                                       |                                                                                                                                                                         |
| See accessories section                                                                                    |                                                                                                                                                                     |                                                                                                                                                                     |                                                                                                                                                                       |                                                                                                                                                                         |
| <b>Notes:</b><br>Connectors available with different LED colours.                                          |                                                                                                                                                                     |                                                                                                                                                                     |                                                                                                                                                                       |                                                                                                                                                                         |

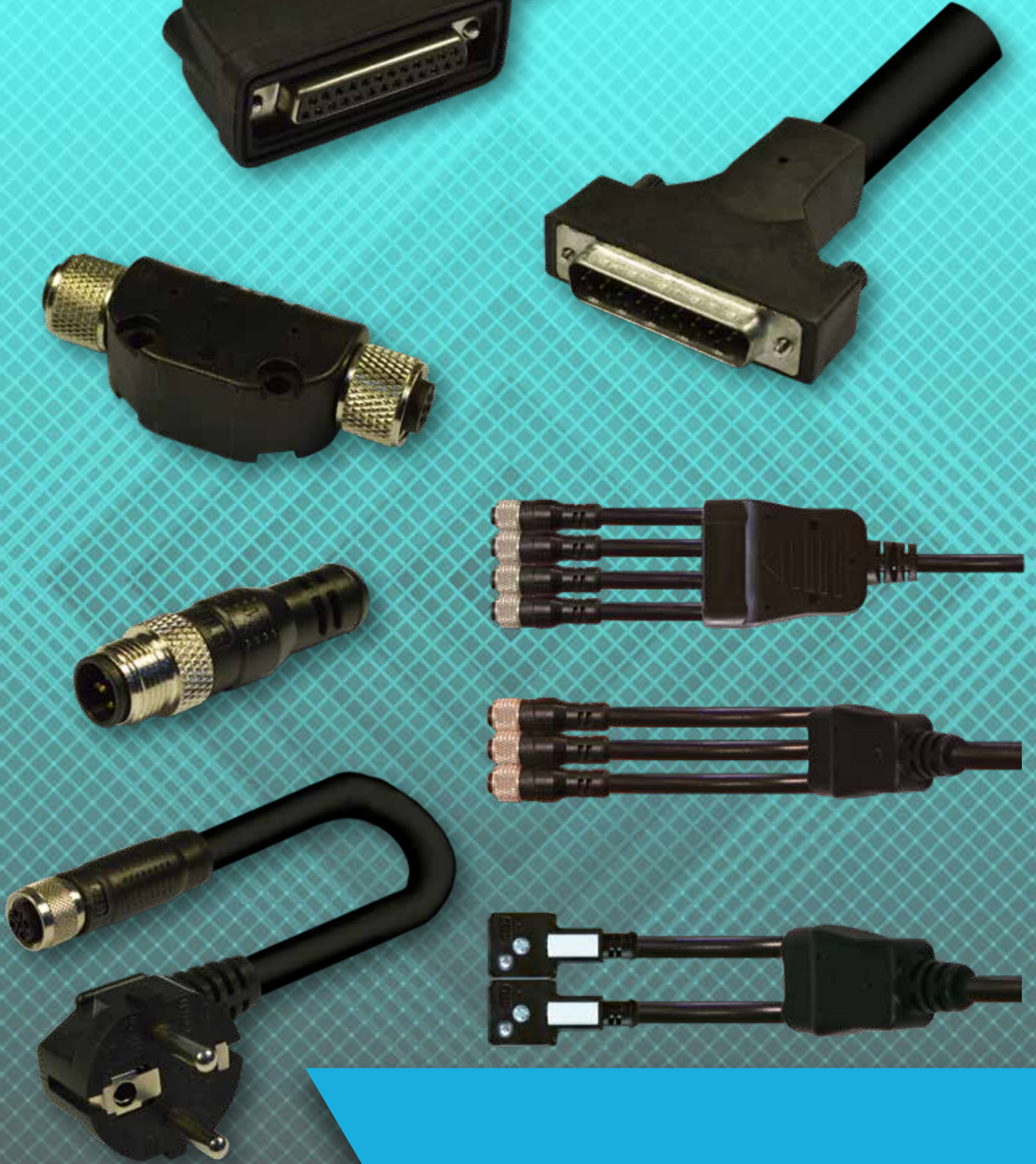




**Notes:**

[illegible]





**SPECIAL CONNECTORS**



● GENERAL FEATURES:

**Conductor cross section :**  
0.34(22AWG) ... 1.50mm²(16AWG).

**Fixing system :**  
Central fixing screw.

**Max. screw torque IEC60947-1**  
(Central fixing screw) :  
CG1-CM1-CM2-CP2 series: Max. 0.5 N \* m.  
CP1 series: Max. 0.4 N \* m.

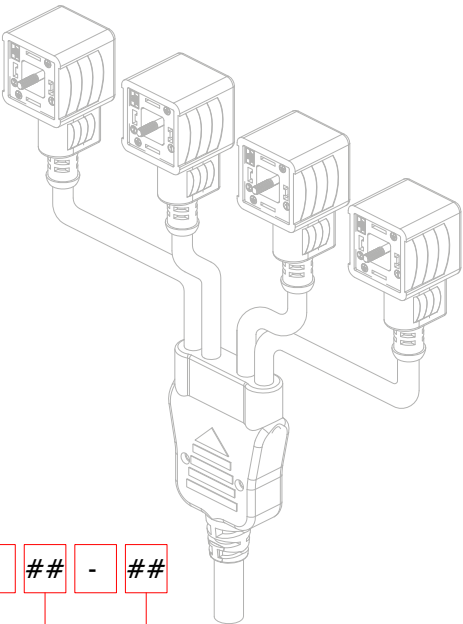
**Type of terminations :**  
To solder.

**Contact material and treatment :**  
Brass + Silver plated.

**Housing material :**  
Polypropylene.

**Internal core material :**  
PA66-V2.

**Protection class :**  
IP67.  
  
**Operating temperature :**  
-25°C + 90°C (connector)  
(NBR gasket -40°C + 90°C)  
(Silicone gasket -40°C + 125°C)



CG D N 0 2 00 0 C 02 2 - ## - ##

**SERIES**

CG: EN175301-803 form A (18mm) only for double exit.  
CG1 : EN175301-803 form A (18mm).  
CM1 : INDUSTRIAL form B (11mm).  
CM2 : EN175301-803 form B (10mm).  
CP1 : EN175301-803 form C (8mm).  
CP2 : MICRO INDUSTRIAL form C (9.4mm).

**EXITS**

D : 2 EXITS. 3 : 3 EXITS. 4 : 4 EXITS. 5 : 5 EXITS. ...  
12 : 12 EXITS.

**COLOUR**

N : BLACK (STANDARD).

**CABLE EXIT**

0 : MOULDED CABLE.

**POLES No.**

2 : 2POLES + EARTH. 3 : 3POLES + EARTH.

**CIRCUIT TYPE**

SEE CIRCUITS PAGE.

**VOLTAGE**

0 : 250V / 300V. 1 : 24V. 2 : 115V. 3 : 230V. 4 : 12V. 5 : 48V.

**EARTH POSITION**

A : H.6. B : H.12. C : DOUBLE H.6-12. D : H.3. E : H.9. F : DOUBLE H.3-9.

**MANIFOLD CABLE TYPE**

2 EXITS:

|    |         |                 |       |         |   |      |               |
|----|---------|-----------------|-------|---------|---|------|---------------|
| B2 | PVC/PVC | IEC332-1 H05VVF | Black | 0.75mm² | 4 | ø7mm | -20°C / +80°C |
|----|---------|-----------------|-------|---------|---|------|---------------|

3 EXITS:

|    |         |                 |       |         |   |        |               |
|----|---------|-----------------|-------|---------|---|--------|---------------|
| C2 | PVC/PVC | IEC332-1 H05VVF | Black | 0.75mm² | 5 | ø8.3mm | -20°C / +80°C |
|----|---------|-----------------|-------|---------|---|--------|---------------|

4-5-6 EXITS:

|    |         |         |       |         |   |        |               |
|----|---------|---------|-------|---------|---|--------|---------------|
| EN | PVC/PVC | CEI2022 | Black | 0.34mm² | 8 | ø8.3mm | -20°C / +80°C |
|----|---------|---------|-------|---------|---|--------|---------------|

7-8 EXITS:

|    |         |               |       |                    |        |        |               |
|----|---------|---------------|-------|--------------------|--------|--------|---------------|
| 4P | PUR/TPO | ULstyle 20549 | Black | 0.34mm²<br>0.75mm² | 8<br>3 | ø8.8mm | -25°C / +80°C |
|----|---------|---------------|-------|--------------------|--------|--------|---------------|

9-10-11-12-13-14-15-16 EXITS:

|    |         |               |       |                    |         |         |               |
|----|---------|---------------|-------|--------------------|---------|---------|---------------|
| 8P | PUR/TPO | ULstyle 20549 | Black | 0.34mm²<br>0.75mm² | 16<br>3 | ø10.6mm | -25°C / +80°C |
|----|---------|---------------|-------|--------------------|---------|---------|---------------|

**CABLE LENGTH**

1 : 1m A : +10cm  
2 : 2m B : +20cm  
3 : 3m C : +30cm  
...  
I : +90cm

EXAMPLE: "...CB22C" = 2.3m  
"...CB22F" = 2.6m  
"...CB22I" = 2.9m

**CABLE LENGTH SPLITTER-CONNECTORS**

NO DIGIT: 200mm. 350: 350mm ... 1000: 1000mm. ETC.

**SOME VARIABLES**

L : PROFILED GASKET. SS : STAINLESS STEEL SCREW. Y : WITHOUT H.T.P.LOGO. ## : CUSTOMIZED VARIABLES.

● **GENERAL FEATURES:**

**Conductor cross section :**

**M8:** 0.14(26AWG) ... 0.5mm<sup>2</sup>(20AWG).

**M12:** 0.25(24AWG) ... 0.75mm<sup>2</sup>(19AWG).

**Fixing system :**

M8 / M12 coupling nut.

**Max. screw torque IEC60947-1**

M8 coupling nut torque 0.4N\*m.

M12 coupling nut torque 0.6N\*m.

**Type of terminations :**

Crimped wires/to solder.

**Contact material and treatment :**

Brass + Gold flash.

**Housing material :**

Polypropylene.

**Internal core material :**

PA66-V2.

**Coupling nut material :**

Brass + Nickel plated.

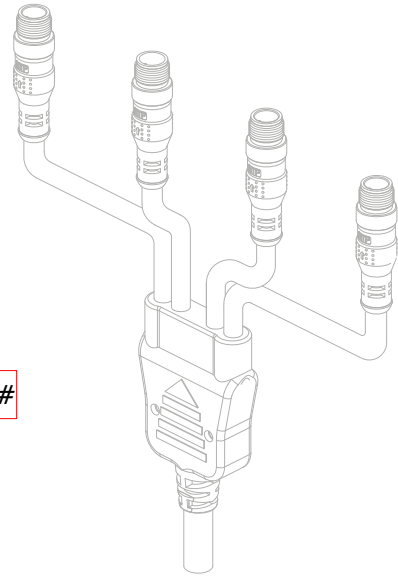
Stainless steel AISI304(upon request).

**Protection class :**

IP67.

**Operating temperature :**

-25°C +90°C.



S4 C 4 8B 1Z - A 4 - ## - ##

**EXITS**

**S2 :** 2 EXITS. **S3 :** 3 EXITS. **S4 :** 4 EXITS. **S5 :** 5 EXITS ...

**S12 :** 12 EXITS.

**SERIES**

- : FREE CABLE.

**A:** M12 CIRCULAR CONNECTOR MALE 180°.

**B:** M12 CIRCULAR CONNECTOR MALE 90°.

**C:** M12 CIRCULAR CONNECTOR FEMALE 180°.

**D:** M12 CIRCULAR CONNECTOR FEMALE 90°.

**NUMBERS OF POLES**

**3 :** 3POLES. **4 :** 4POLES. **8 :** 8POLES. **12 :** 12POLES.

**MANIFOLD CABLE TYPE**

**2 EXITS:**

|           |         |                 |       |                     |   |      |               |
|-----------|---------|-----------------|-------|---------------------|---|------|---------------|
| <b>B2</b> | PVC/PVC | IEC332-1 H05VWF | Black | 0.75mm <sup>2</sup> | 4 | ø7mm | -20°C / +80°C |
|-----------|---------|-----------------|-------|---------------------|---|------|---------------|

**3 EXITS:**

|           |         |                 |       |                     |   |        |               |
|-----------|---------|-----------------|-------|---------------------|---|--------|---------------|
| <b>C2</b> | PVC/PVC | IEC332-1 H05VWF | Black | 0.75mm <sup>2</sup> | 5 | ø8.3mm | -20°C / +80°C |
|-----------|---------|-----------------|-------|---------------------|---|--------|---------------|

**4-5-6 EXITS:**

|           |         |         |       |                     |   |        |               |
|-----------|---------|---------|-------|---------------------|---|--------|---------------|
| <b>8B</b> | PVC/PVC | CEI2022 | Black | 0.34mm <sup>2</sup> | 8 | ø8.3mm | -20°C / +80°C |
|-----------|---------|---------|-------|---------------------|---|--------|---------------|

**7-8 EXITS:**

|           |         |               |       |                                            |        |        |               |
|-----------|---------|---------------|-------|--------------------------------------------|--------|--------|---------------|
| <b>4P</b> | PUR/TPO | ULstyle 20549 | Black | 0.34mm <sup>2</sup><br>0.75mm <sup>2</sup> | 8<br>3 | ø8.8mm | -25°C / +80°C |
|-----------|---------|---------------|-------|--------------------------------------------|--------|--------|---------------|

**9-10-11-12-13-**

**14-15-16 EXITS:**

|           |         |               |       |                                            |         |         |               |
|-----------|---------|---------------|-------|--------------------------------------------|---------|---------|---------------|
| <b>8P</b> | PUR/TPO | ULstyle 20549 | Black | 0.34mm <sup>2</sup><br>0.75mm <sup>2</sup> | 16<br>3 | ø10.6mm | -25°C / +80°C |
|-----------|---------|---------------|-------|--------------------------------------------|---------|---------|---------------|

**CABLE LENGTH**

**1Z :** 1m **A :** +10cm

**2Z :** 2m **B :** +20cm

**3Z :** 3m **C :** +30cm

... ..

**I :** +90cm

EXAMPLE: "...1C" = 1.3m

"...1E" = 1.6m"

"...2A" = 2.1m"

**SERIES**

- : FREE CABLE.

**A:** M12 MALE 180°.

**B:** M12 MALE 90°.

**C:** M12 FEMALE 180°.

**D:** M12 FEMALE 90°.

**E:** M8 MALE 180°.

**F:** M8 MALE 90°.

**G:** M8 FEMALE 180°.

**H:** M8 FEMALE 90°.

**I:** M8 FEMALE 180° TOTALLY SHIELDED

**J:** M12 MALE 180° LED PNP.

**K:** M12 MALE 90° LED PNP

**L:** M8 MALE 180° TOTALLY SHIELDED

**M:** 7/8" MALE 180°.

**N:** 7/8" FEMALE 180°.

**O:** M12 FEMALE 180° LED PNP.

**P:** M12 FEMALE 90° LED PNP.

**Q:** M12 MALE 180° LED NPN.

**R:** M12 MALE 90° LED NPN.

**S:** M12 FEMALE 180° LED NPN.

**T:** M12 FEMALE 90° led NPN.

**U:** M8 MALE 180° LED PNP.

**V:** M8 MALE 90° LED PNP.

**W:** M8 FEMALE 180° LED PNP.

**X:** M8 FEMALE 90° LED PNP.

**Y:** M8 MALE 180° LED NPN.

**Z:** M8 MALE 90° LED NPN.

**0:** M12 MALE 90° TOTALLY SHIELDED.

**1:** DEUTSCH MALE 180°.

**2:** DEUTSCH FEMALE 180°.

**3:** DEUTSCH MALE 180° LED+DIODE.

**4:** DEUTSCH FEMALE 180° LED+DIODE.

**5:** DEUTSCH MALE 180° LED+TRANSIENT.

**6:** DEUTSCH FEMALE 180° LED+TRANSIENT.

**7:** M12 MALE 180° TOTALLY SHIELDED.

**8:** M12 FEMALE 180° TOTALLY SHIELDED.

**9:** M12 FEMALE 90° TOTALLY SHIELDED.

**NUMBERS OF POLES**

**3 :** 3POLES. **4 :** 4POLES. **8 :** 8POLES. **12 :** 12POLES.

**CABLE LENGTH SPLITTER-CONNECTORS**

**NO DIGIT:** 200mm. **350:** 350mm. ... **1000:** 1000mm. ETC.

**SOME VARIABLES**

**Y :** WITHOUT H.T.P.LOGO. **##:** CUSTOMIZED VARIABLES.

● **GENERAL FEATURES:**

**Conductor cross section :**  
0.34(22AWG) ... 1.50mm²(16AWG).

**Fixing system :**  
Central fixing screw.

**Max. screw torque IEC60947-1**  
(Central fixing screw) :  
CG1series: Max. 0.5 N \* m.

**Type of terminations :**  
To solder.

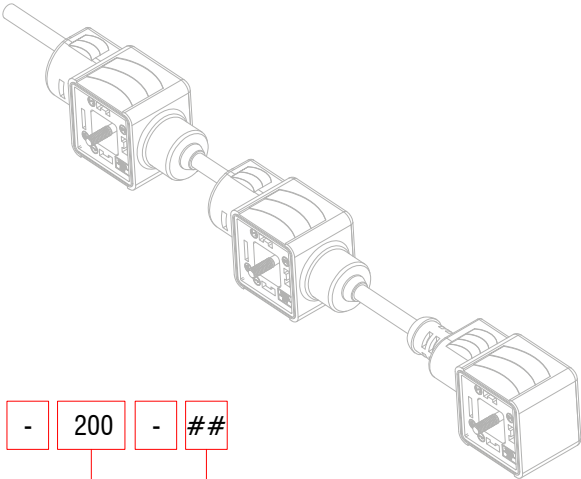
**Contact material and treatment :**  
Brass + Silver plated.

**Housing material :**  
Polypropylene.

**Internal core material :**  
PA66-V2.

**Protection class :**  
IP67

**Operating temperature :**  
-40°C +90°C with NBR gasket.  
-40°C +125°C with Silicone gasket.



CGD N 2 2 00 0 C B1 2 - 200 - ##

**SERIES/EXITS**

CGD: N°2 EN175301-803 connector form A (18mm).  
CG13: N°3 EN175301-803 connector form A (18mm).  
CG14: N°4 EN175301-803 connector form A (18mm).  
...  
CG16: N°6 EN175301-803 connector form A (18mm.)

**COLOUR**

N : BLACK (STANDARD).

**DIN IN LINE**

**POLES No.**

2 : 2POLES + EARTH. 3 : 3POLES + EARTH.

**CIRCUIT TYPE**  
SEE CIRCUITS PAGE.

**VOLTAGE**

0 : 250V /300V. 1 : 24V. 2 : 115V. 3 : 230V. 4 : 12V. 5 : 48V.

**EARTH POSITION**

A : H.6. B : H.12. C : DOUBLE H.6-12. D : H.3. E : H.9. F : DOUBLE H. 3-9.

**MANIFOLD CABLE TYPE**

**2 EXITS:**

|    |         |                 |       |        |   |      |               |
|----|---------|-----------------|-------|--------|---|------|---------------|
| B1 | PVC/PVC | IEC332-1 H05VVF | Black | 0.5mm² | 4 | ø6mm | -20°C / +80°C |
|----|---------|-----------------|-------|--------|---|------|---------------|

**3 EXITS:**

|    |         |            |       |        |   |      |               |
|----|---------|------------|-------|--------|---|------|---------------|
| B1 | PVC/PVC | CEI2022H0R | Black | 0.5mm² | 5 | ø6mm | -20°C / +80°C |
|----|---------|------------|-------|--------|---|------|---------------|

**4-5-6 EXITS:**

|     |         |         |       |         |   |        |               |
|-----|---------|---------|-------|---------|---|--------|---------------|
| B-8 | PVC/PVC | CEI2022 | Black | 0.34mm² | 6 | ø6.5mm | -20°C / +80°C |
|-----|---------|---------|-------|---------|---|--------|---------------|

**CABLE LENGTH**

1 : 1m A : +10cm  
2 : 2m B : +20cm  
3 : 3m C : +30cm  
...  
I : +90cm

EXAMPLE: "...2C" = 2.3m  
"...2F" = 2.6m"  
"...2I" = 2.9m"

- **NO DIGIT** : DUAL DIN WITH M12 EXIT MALE CONNECTOR 3P. (WITHOUT MANIFOLD CABLE).

**CABLE LENGTH CONNECTOR-CONNECTOR**

200: 200mm (STANDARD) 350: 350mm ... 1000: 1000mm ETC.

**SOME VARIABLES**

L : PROFILED GASKET. SS : STAINLESS STEEL SCREW. Y : WITHOUT H.T.P.LOGO.  
M12 : DUAL DIN WITH M12 EXIT MALE CONNECTOR 3P. (WITHOUT MANIFOLD CABLE).  
## : CUSTOMIZED VARIABLES.

● **GENERAL FEATURES:**

**Conductor cross section :**  
0.34(22AWG) ... 1.50mm²(16AWG).

**Fixing system :**  
Central fixing screw.

**Max. screw torque IEC60947-1**  
(Central fixing screw) :  
CG1E-CM1E-CM2E series: Max. 0.5 N \* m.

**Type of terminations :**  
To solder.

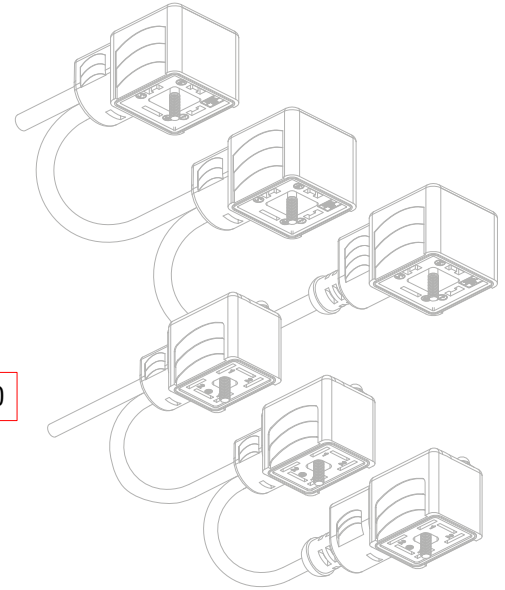
**Contact material and treatment :**  
Brass + Silver plated.

**Housing material :**  
Polypropylene.

**Internal core material :**  
PA66-V2.

**Protection class :**  
IP67.

**Operating temperature :**  
-40°C + 90°C with NBR gasket.  
-40°C + 125°C with Silicone gasket.



CG1E 2 N 0 2 00 0 C B1 2 - 200

**SERIES**

**CG1E** : EN175301-803 form A (18mm) IN CHAIN.  
**CM1E** : INDUSTRIAL form B (11mm) IN CHAIN.  
**CM2E** : EN175301-803 form B (10mm )IN CHAIN.

**EXITS**

2 : 2 EXITS. 3 : 3 EXITS. 4 : 4 EXITS.  
5 : 5 EXITS. 6 : 6 EXITS.

**COLOUR**

**N** : BLACK (STANDARD).

**CABLE EXIT**

**0** : MOULDED CABLE

**POLES No.**

2 : 2POLES + EARTH. 3 : 3POLES + EARTH.

**CIRCUIT TYPE**

SEE CIRCUITS PAGE.

**VOLTAGE**

0 : 250V / 300V. 1 : 24V. 2 : 115V. 3 : 230V. 4 : 12V. 5 : 48V.

**EARTH POSITION**

**A** : H.6. **B** : H.12. **C** : DOUBLE H.6-12. **D** : H.3. **E** : H.9. **F** : DOUBLE H. 3-9.

**MANIFOLD CABLE TYPE**

2 EXITS:

|    |         |                 |       |        |   |      |               |
|----|---------|-----------------|-------|--------|---|------|---------------|
| B1 | PVC/PVC | IEC332-1 HD5WVF | Black | 0.5mm² | 4 | ø6mm | -20°C / +80°C |
|----|---------|-----------------|-------|--------|---|------|---------------|

3 EXITS:

|    |         |            |       |        |   |      |               |
|----|---------|------------|-------|--------|---|------|---------------|
| B1 | PVC/PVC | CEI2022I0R | Black | 0.5mm² | 5 | ø6mm | -20°C / +80°C |
|----|---------|------------|-------|--------|---|------|---------------|

4-5-6 EXITS:

|     |         |         |       |         |   |        |               |
|-----|---------|---------|-------|---------|---|--------|---------------|
| B-8 | PVC/PVC | CEI2022 | Black | 0.34mm² | 6 | ø6.5mm | -20°C / +80°C |
|-----|---------|---------|-------|---------|---|--------|---------------|

**CABLE LENGTH**

1 : 1m    **A** : +10cm  
2 : 2m    **B** : +20cm  
3 : 3m    **C** : +30cm  
...  
I : +90cm

EXAMPLE: "...2C" = 2.3m  
              "...2F" = 2.6m"  
              "...2I" = 2.9m"

**CABLE LENGTH CONNECTOR-CONNECTOR**

200: 200mm (STANDARD). 350: 350mm ... 1000: 1000mm. ETC.

**SOME VARIABLES**

**L** : PROFILED GASKET. **SS** : STAINLESS STEEL SCREW. **Y** : WITHOUT H.T.P.LOGO. **##**: CUSTOMIZED VARIABLES.

● **GENERAL FEATURES:**

**Conductor cross section :**  
**M8:** 0.25(24AWG) ... 0.5mm²(20AWG).  
**M12:** 0.25(24AWG) ... 0.75mm²(19AWG).  
**DIN:** 0.5mm²(20AWG).. 0.75mm²(19AWG).

**M12 Y Fixing system :**  
M12 coupling nut.

**Max. screw torque IEC60947-1**  
M8 coupling nut torque 0.2 N \* m.  
M12 coupling nut torque 0.4 N \* m.  
(Central fixing screw) :  
CG1-CM1-CM2-CP2 series: Max. 0.5 N \* m.  
CP1 series: Max. 0.4 N \* m.

**M12 Y- Contact material and treatment :**  
Brass + Gold flash.

**M12 Y - Housing material :**  
Polypropylene.

**M12 Y - Internal core material :**  
PA66-V2.

**M12 Y - Coupling nut material :**  
Brass+Nickel plated.  
Stainless steel AISI304(upon request).

**Protection class :**  
IP67.

**Operating temperature :**  
-25°C +90°C.

**Circuit type :**  
Parallel.  
Shunting.

A

4

B

1Z

-

C

3

-

C

3

-

C

3

-

##

SERIES

A: M12 circular connector male 180°.  
C: M12 circular connector female 180°.

NUMBERS OF POLES

3 : 3POLES. 4 : 4POLES. 8 : 8POLES. 12 : 12POLES.

CABLE TYPE

- : FREE CABLE  
A: PVC/PVC CEI2022 3X0.25mm² BLACK.  
B: PVC/PVC CEI2022 3X0.34mm² BLACK.  
N: PVC/PVC CEI2022 3X0.25mm² GREY RAL7032.  
L: PVC/PVC CEI2022 3X0.34mm² GREY RAL7032.  
C: PUR/PUR 3X0.25mm² BLACK.  
D: PUR/PUR 3X0.34mm² BLACK.  
01: PVC/PVC IEC332-1 H03VVF 3G0.5mm² BLACK.  
04: PVC/PVC CEI2022IIOR 3G0.5mm² GREY RAL7032.  
09: PUR/PUR 3G0.75mm² BLACK.

CABLE LENGTH

1Z : 1m    A : +10cm  
2Z : 2m    B : +20cm  
3Z : 3m    C : +30cm  
...    I : +90cm

EXAMPLE: "...1C" = 1.3m  
              "...1F" = 1.6m  
              "...2A" = 2.1m

SERIES

- : FREE CABLE.  
A: M12 MALE 180°.  
B: M12 MALE 90°.  
C: M12 FEMALE 180°.  
D: M12 FEMALE 90°.  
E: M8 MALE 180°.  
F: M8 MALE 90°.  
G: M8 FEMALE 180°.  
H: M8 FEMALE 90°.  
I: M8 FEMALE 180° TOTALLY SHIELDED.  
J: M12 MALE 180° LED PNP.  
K: M12 MALE 90° LED PNP.  
L: M8 MALE 180° TOTALLY SHIELDED.  
O: M12 FEMALE 180° LED PNP.  
P: M12 FEMALE 90° LED PNP.  
Q: M12 MALE 180° LED NPN.  
R: M12 MALE 90° LED NPN.  
S: M12 FEMALE 180° LED NPN.  
T: M12 FEMALE 90° LED NPN.  
U: M8 MALE 180° LED PNP.  
V: M8 MALE 90° LED PNP.  
W: M8 FEMALE 180° LED PNP.  
X: M8 FEMALE 90° LED PNP.  
Y: M8 MALE 180° LED NPN.  
Z: M8 MALE 90° LED NPN.  
0: MICRO INDUSTRIAL form C (9.4mm) LED+VDR.  
1: EN175301-803 form A (18mm).  
2: EN175301-803 form A (18mm) LED+VDR.  
3: INDUSTRIAL form B (11mm).  
4: INDUSTRIAL form B (11mm) LED+VDR.  
5: EN175301-803 form B (10mm).  
6: EN175301-803 form B (10mm) LED+VDR.  
7: EN175301-803 form C (8mm).  
8: EN175301-803 form C (8mm) LED+VDR.  
9: MICRO INDUSTRIAL form C (9.4mm).

NUMBERS OF POLES (M8-M12)

3 : 3POLES. 4 : 4POLES. 8 : 8POLES. 12 : 12POLES.

RATED VOLTAGE (DIN conn.)

A : 24V. B : 115V. C : 230V. D : 12V. E: 48V.

SOME VARIABLES

Y : WITHOUT H.T.P.LOGO. ##: CUSTOMIZED VARIABLES.

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WE CAN PRODUCE CUSTOMIZED PRODUCTS IN CONFORMITY WITH CUSTOMER'S REQUIREMENTS; MULTIPLE CONNECTORS CAN BE RANGE FROM 2 UP TO 16 CONNECTORS .

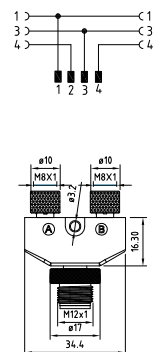
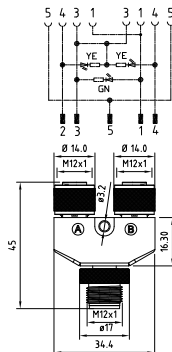
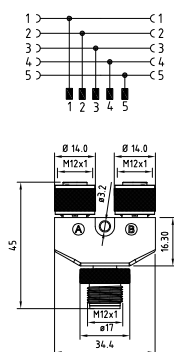
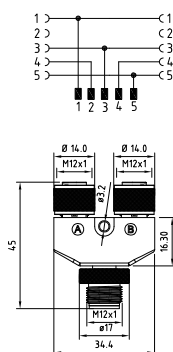








#### Technical drawing



#### Product description

|                    |                                                |            |                                                |                                                  |                                                                  |
|--------------------|------------------------------------------------|------------|------------------------------------------------|--------------------------------------------------|------------------------------------------------------------------|
| Connector type     | Y splitter connector                           |            | Y splitter connector                           | Y splitter connector                             | Y splitter connector                                             |
| Conforms to        | -                                              |            | -                                              | -                                                | -                                                                |
| Construction type  | M12 A -Coding                                  |            | M12 A -Coding                                  | M12 A -Coding                                    | M12 A -Coding / M8 A-coding                                      |
| Part number        | <b>12T34000</b>                                |            | <b>12T35000</b>                                | <b>12T45000</b>                                  | <b>12T308F</b>                                                   |
| Description        | M12 Y splitter connector with SHUNTING circuit |            | M12 Y splitter connector with PARALLEL circuit | M12 Y splitter connector with 3 LED, PNP circuit | M12 Y splitter connector with N.2 M8 conn. with SHUNTING circuit |
| Contacts type      | Side A                                         | M12 Female | M12 Female                                     | M12 Female                                       | M8 Female                                                        |
|                    | Side B                                         | M12 Female | M12 Female                                     | M12 Female                                       | M8 Female                                                        |
|                    | INPUT side                                     | M12 Male   | M12 Male                                       | M12 Male                                         | M12 Male                                                         |
| Number of contacts | Side A                                         | 4poles     | 5poles                                         | 4poles                                           | 3poles                                                           |
|                    | Side B                                         | 4poles     | 5poles                                         | 4poles                                           | 3poles                                                           |
|                    | INPUT side                                     | 5poles     | 5poles                                         | 5poles                                           | 4poles                                                           |
| Housing colour     | Black                                          |            | Black                                          | Transparent                                      | Black                                                            |

#### Technical data

|                         |                       |                       |                       |                           |
|-------------------------|-----------------------|-----------------------|-----------------------|---------------------------|
| Housing material        | Polypropylene         | Polypropylene         | Polypropylene         | Polypropylene             |
| Contacts material       | Brass + Gold flash    | Brass + Gold flash    | Brass + Gold flash    | Brass + Gold flash        |
| Coupling nut type       | Knurl round           | Knurl round           | Knurl round           | Knurl round               |
| Coupling nut material   | Brass + Nickel plated | Brass + Nickel plated | Brass + Nickel plated | Brass + Nickel plated     |
| Internal core material  | PA66-V2               | PA66-V2               | PA66-V2               | PA66-V2                   |
| M12 coupling nut torque | 0.4 N*m               | 0.4 N*m               | 0.4 N*m               | M12: 0.4 N*m / M8: 0.2N*m |
| Circuit type            | Shunting              | Parallel              | 3 LED PNP             | Shunting                  |
| Rated voltage           | 60V AC/DC             | 60V AC/DC             | 24V AC/DC             | 60V AC/DC                 |
| Rated current           | 4A                    | 4A                    | 4A                    | 3A                        |
| O-ring material         | NBR                   | NBR                   | NBR                   | NBR                       |
| Fixing type             | no. 1 fixing hole     | no. 1 fixing hole     | no. 1 fixing hole     | no. 1 fixing hole         |
| Fixing hole diameter    | ø 3.20mm              | ø 3.20mm              | ø 3.20mm              | ø 3.20mm                  |

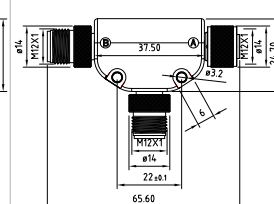
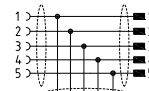
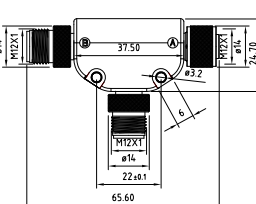
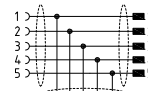
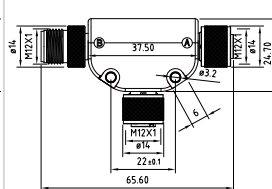
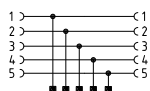
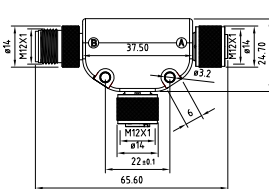
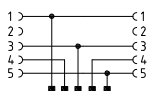
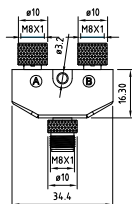
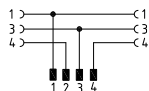
#### Packaging

|         |            |            |            |            |
|---------|------------|------------|------------|------------|
| Qty/Bag | 1 pc / bag | 1 pc / bag | 1 pc / bag | 1 pc / bag |
|---------|------------|------------|------------|------------|

#### Other accessories options

See accessories section

#### Notes:



### Product description

|                                               |                                                 |                                                 |                                                                   |                                                                   |
|-----------------------------------------------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------|
| Y splitter connector                          | TT splitter connector                           | TT splitter connector                           | TT splitter connector                                             | TT splitter connector                                             |
| -                                             | -                                               | -                                               | -                                                                 | -                                                                 |
| M8 A -Coding / M8 A-coding                    | M12 A -Coding                                   | M12 A -Coding                                   | M12 A -Coding                                                     | M12 B -Coding                                                     |
| <b>08T34000</b>                               | <b>12TT34000</b>                                | <b>12TT35000</b>                                | <b>12TTJ35000-360</b>                                             | <b>B-12TTJ35000-360</b>                                           |
| M8 Y splitter connector with SHUNTING circuit | M12 TT splitter connector with SHUNTING circuit | M12 TT splitter connector with PARALLEL circuit | M12 TT splitter connector TOTALLY SHIELDED with PARALLEL circuit. | M12 TT splitter connector TOTALLY SHIELDED with PARALLEL circuit. |
| M8 Female                                     | M12 Female                                      | M12 Female                                      | M12 Male                                                          | M12 Male                                                          |
| M8 Female                                     | M12 Male                                        | M12 Male                                        | M12 Female                                                        | M12 Female                                                        |
| M8 Male                                       | M12 Female                                      | M12 Female                                      | M12 Male                                                          | M12 Male                                                          |
| 3poles                                        | 4poles                                          | 5poles                                          | 5poles                                                            | 5poles                                                            |
| 3poles                                        | 4poles                                          | 5poles                                          | 5poles                                                            | 5poles                                                            |
| 4poles                                        | 5poles                                          | 5poles                                          | 5poles                                                            | 5poles                                                            |
| Black                                         | Black                                           | Black                                           | Black                                                             | Black                                                             |

### Technical data

|                       |                       |                       |                       |                       |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Polypropylene         | Polypropylene         | Polypropylene         | Polypropylene         | Polypropylene         |
| Brass + Gold flash    | Brass + Gold flash    | Brass + Gold flash    | Brass + Gold flash    | Brass + Gold flash    |
| Knurl round           | Knurl round           | Knurl round           | Knurl round           | Knurl round           |
| Brass + Nickel plated | Brass + Nickel plated | Brass + Nickel plated | Brass + Nickel plated | Brass + Nickel plated |
| PA66-V2               | PA66-V2               | PA66-V2               | PA66-V2               | PA66-V2               |
| 0.2 N*m               | 0.4 N*m               | 0.4 N*m               | 0.4 N*m               | 0.4 N*m               |
| Shunting              | Shunting              | Parallel              | Parallel              | Parallel              |
| 60V AC/DC             | 60V AC/DC             | 60V AC/DC             | 60V AC/DC             | 60V AC/DC             |
| 4A                    | 4A                    | 4A                    | 4A                    | 4A                    |
| NBR                   | NBR                   | NBR                   | NBR                   | NBR                   |
| no. 2 fixing holes    | no. 2 fixing holes    | no. 2 fixing holes    | no. 2 fixing holes    | no. 2 fixing holes    |
| ø 3.20mm              | ø 3.20mm              | ø 3.20mm              | ø 3.20mm              | ø 3.20mm              |

### Packaging

|  |            |            |            |            |
|--|------------|------------|------------|------------|
|  | 1 pc / bag | 1 pc / bag | 1 pc / bag | 1 pc / bag |
|--|------------|------------|------------|------------|

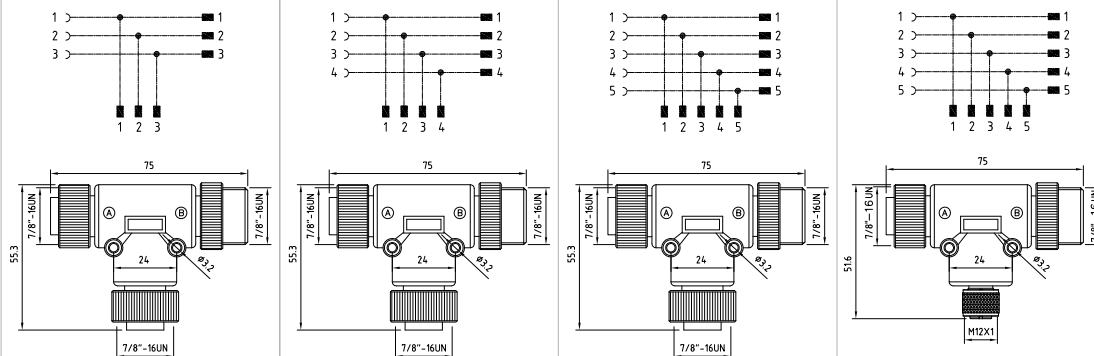
### Other accessories options

See accessories section

**Notes:**



## Technical drawing



## Product description

|                    |                                                       |                                                       |                                                       |                                                            |
|--------------------|-------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|------------------------------------------------------------|
| Connector type     | T splitter connector                                  | T splitter connector                                  | T splitter connector                                  | T splitter connector                                       |
| Conforms to        | -                                                     | -                                                     | -                                                     | -                                                          |
| Construction type  | 7/8"-16 UN                                            | 7/8"-16 UN                                            | 7/8"-16 UN                                            | 7/8"-16 UN                                                 |
| Part number        | <b>78T73000</b>                                       | <b>78T74000</b>                                       | <b>78T75000</b>                                       | <b>78T76000</b>                                            |
| Description        | T splitter connector 7/8"-16 UN with PARALLEL circuit | T splitter connector 7/8"-16 UN with PARALLEL circuit | T splitter connector 7/8"-16 UN with PARALLEL circuit | T splitter connector 7/8"-16 UN with M12, PARALLEL circuit |
| Contacts type      | Side A                                                | 7/8" Female                                           | 7/8" Female                                           | 7/8" Female                                                |
|                    | Side B                                                | 7/8" Male                                             | 7/8" Male                                             | 7/8" Male                                                  |
|                    | INPUT side                                            | 7/8" Female                                           | 7/8" Female                                           | M12 Female                                                 |
| Number of contacts | Side A                                                | 3poles                                                | 4poles                                                | 5poles                                                     |
|                    | Side B                                                | 3poles                                                | 4poles                                                | 5poles                                                     |
|                    | INPUT side                                            | 3poles                                                | 4poles                                                | 5poles                                                     |
| Housing colour     | Black                                                 | Black                                                 | Black                                                 | Black                                                      |

## Technical data

|                          |                       |                       |                       |                             |
|--------------------------|-----------------------|-----------------------|-----------------------|-----------------------------|
| Housing material         | Polypropylene         | Polypropylene         | Polypropylene         | Polypropylene               |
| Contacts material        | Brass + Gold flash    | Brass + Gold flash    | Brass + Gold flash    | Brass + Gold flash          |
| Coupling nut type        | Knurl round           | Knurl round           | Knurl round           | Knurl round                 |
| Coupling nut material    | Brass + Nickel plated | Brass + Nickel plated | Brass + Nickel plated | Brass + Nickel plated       |
| Internal core material   | PVC                   | PVC                   | PVC                   | 7/8": PVC ; M12: PA66-V2    |
| 7/8" coupling nut torque | 0.8 N*m               | 0.8 N*m               | 0.8 N*m               | 7/8": 0.8 N*m ; M12: 0.4n*m |
| Circuit type             | Parallel              | Parallel              | Parallel              | Parallel                    |
| Rated voltage            | 250V AC / DC          | 250V AC / DC          | 250V AC / DC          | 30V AC / 36V DC             |
| Rated current            | 12A                   | 9A                    | 9A                    | 4A                          |
| O-ring material          | -                     | -                     | -                     | NBR                         |
| Fixing type              | no. 2 fixing holes    | no. 2 fixing holes    | no. 2 fixing holes    | no. 2 fixing holes          |
| Fixing hole diameter     | ø 3.20mm              | ø 3.20mm              | ø 3.20mm              | ø 3.20mm                    |

## Packaging

|         |            |            |            |            |
|---------|------------|------------|------------|------------|
| Qty/Bag | 1 pc / bag | 1 pc / bag | 1 pc / bag | 1 pc / bag |
|---------|------------|------------|------------|------------|

## Other accessories options

See accessories section

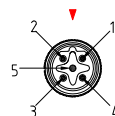
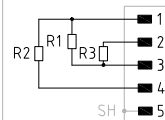
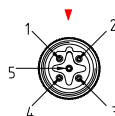
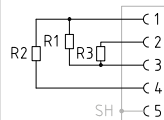
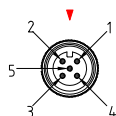
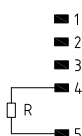
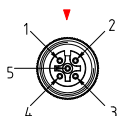
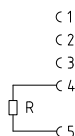
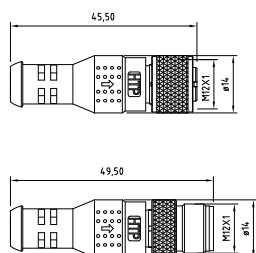
## Notes:



|                                  |        |                                         |                                         |                                            |                                        |
|----------------------------------|--------|-----------------------------------------|-----------------------------------------|--------------------------------------------|----------------------------------------|
| <b>Technical drawing</b>         |        |                                         |                                         |                                            |                                        |
| <b>Product description</b>       |        |                                         |                                         |                                            |                                        |
| Connector type                   |        | Adapter connector                       | Adapter connector                       | Adapter connector                          | Adapter connector                      |
| Conforms to                      |        | -                                       | -                                       | -                                          | -                                      |
| Construction type                |        | M12 A -Coding                           | M12 A -Coding                           | M12 A -Coding                              | M12 A -Coding                          |
| Part number                      |        | <b>08FD3-12MD3</b>                      | <b>08FD4-12MD4</b>                      | <b>12FD5-12FD5</b>                         | <b>12MD5-12MD5</b>                     |
| Description                      |        | M8-M12 Adapter connector<br>Female-Male | M8-M12 Adapter connector<br>Female-Male | M12-M12 Adapter connector<br>Female-Female | M12-M12 Adapter connector<br>Male-Male |
| Contacts type                    | Side A | M8 Female                               | M8 Female                               | M12 Female                                 | M12 Male                               |
|                                  | Side B | M12 Male                                | M12 Male                                | M12 Female                                 | M12 Male                               |
| Number of contacts               | Side A | 3poles                                  | 4poles                                  | 5poles                                     | 5poles                                 |
|                                  | Side B | 3poles                                  | 4poles                                  | 5poles                                     | 5poles                                 |
| Housing colour                   |        | Black                                   | Black                                   | Black                                      | Black                                  |
| <b>Technical data</b>            |        |                                         |                                         |                                            |                                        |
| Housing material                 |        | Polypropylene                           | Polypropylene                           | Polypropylene                              | Polypropylene                          |
| Contacts material                |        | Brass + Gold flash                      | Brass + Gold flash                      | Brass + Gold flash                         | Brass + Gold flash                     |
| Coupling nut type                |        | Knurl round                             | Knurl round                             | Knurl round                                | Knurl round                            |
| Coupling nut material            |        | Brass + Nickel plated                   | Brass + Nickel plated                   | Brass + Nickel plated                      | Brass + Nickel plated                  |
| Internal core material           |        | PA66-V2                                 | PA66-V2                                 | PA66-V2                                    | PA66-V2                                |
| Coupling nut torque              |        | M12: 0.4 N*m M8: 0.2 N*m                | M12: 0.4 N*m M8: 0.2 N*m                | 0.4 N*m                                    | 0.4 N*m                                |
| Circuit type                     |        | Parallel                                | Parallel                                | Parallel                                   | Parallel                               |
| Rated voltage                    |        | 50V AC/60V DC                           | 50V AC/60V DC                           | 60V AC/DC                                  | 60V AC/DC                              |
| Rated current                    |        | 3A                                      | 3A                                      | 4A                                         | 4A                                     |
| O-ring material                  |        | NBR                                     | NBR                                     | NBR                                        | NBR                                    |
| Fixing type                      |        | no. 2 fixing holes                      | no. 2 fixing holes                      | no. 2 fixing holes                         | no. 2 fixing holes                     |
| Fixing hole diameter             |        | ø 3.20mm                                | ø 3.20mm                                | ø 3.20mm                                   | ø 3.20mm                               |
| <b>Packaging</b>                 |        |                                         |                                         |                                            |                                        |
| Qty/Bag                          |        | 1pc/Bag                                 | 1pc/Bag                                 | 1pc/Bag                                    | 1pc/Bag                                |
| <b>Other accessories options</b> |        |                                         |                                         |                                            |                                        |
| See accessories section          |        |                                         |                                         |                                            |                                        |
| <b>Notes:</b>                    |        |                                         |                                         |                                            |                                        |



#### Technical drawing



#### Product description

|                    |                                          |                                          |                                          |                                          |
|--------------------|------------------------------------------|------------------------------------------|------------------------------------------|------------------------------------------|
| Connector type     | Circular terminator connector            | Circular terminator connector            | Circular terminator connector            | Circular terminator connector            |
| Conforms to        | IEC 61076-2-101                          | IEC 61076-2-101                          | IEC 61076-2-101                          | IEC 61076-2-101                          |
| Construction type  | M12 A -Coding                            | M12 A -Coding                            | M12 B -Coding                            | M12 B -Coding                            |
| Description        | Terminator circular connector M12 series | Terminator circular connector M12 series | Terminator circular connector M12 series | Terminator circular connector M12 series |
| Part number        | <b>12FD5000-TERM</b>                     | <b>12MD5000-TERM</b>                     | <b>B-12FJ5000-TERM</b>                   | <b>B-12MJ5000-TERM</b>                   |
| Housing type       | Straight 180°                            | Straight 180°                            | Straight 180°                            | Straight 180°                            |
| Cable gland        | -                                        | -                                        | -                                        | -                                        |
| Contacts type      | Female                                   | Male                                     | Female                                   | Male                                     |
| Number of contacts | 5poles                                   | 5poles                                   | 5poles                                   | 5poles                                   |
| Housing colour     | Black                                    | Black                                    | Black                                    | Black                                    |

#### Technical data

|                           |                         |                         |                            |                            |
|---------------------------|-------------------------|-------------------------|----------------------------|----------------------------|
| Type of termination       | Contacts to crimp wires | Contacts to crimp wires | Contacts to crimp wires    | Contacts to crimp wires    |
| Contacts material         | Brass + Gold flash      | Brass + Gold flash      | Brass + Gold flash         | Brass + Gold flash         |
| Coupling nut type         | Knurl round             | Knurl round             | Knurl round                | Knurl round                |
| M12 coupling nut material | Brass + Nickel plated   | Brass + Nickel plated   | Brass + Nickel plated      | Brass + Nickel plated      |
| M12 coupling nut torque   | 0.4 N*m                 | 0.4 N*m                 | 0.4 N*m                    | 0.4 N*m                    |
| Rated voltage             | 60V AC/DC               | 60V AC/DC               | 60V AC/DC                  | 60V AC/DC                  |
| Rated current             | 4A                      | 4A                      | 4A                         | 4A                         |
| Resistance value          | 120Ω                    | 120Ω                    | R1: 220Ω R2: 330Ω R3: 330Ω | R1: 220Ω R2: 330Ω R3: 330Ω |
| O-ring material           | NBR                     | -                       | NBR                        | -                          |
|                           |                         |                         |                            |                            |
|                           |                         |                         |                            |                            |
|                           |                         |                         |                            |                            |
|                           |                         |                         |                            |                            |

#### Packaging

|         |               |               |               |               |
|---------|---------------|---------------|---------------|---------------|
| Qty/Bag | 100 pcs / bag | 100 pcs / bag | 100 pcs / bag | 100 pcs / bag |
|---------|---------------|---------------|---------------|---------------|

#### Other accessories options

See accessories section

#### Notes:





**INDUSTRIAL CONNECTORS**

## • GENERAL FEATURES FIELD ATTACHABLE CONNECTORS:

**Cable Gland :**  
PG7 :  $\varnothing$  CABLE 4 - 6mm

**Conductor cross section :**  
0.14(26AWG)...0.50mm<sup>2</sup>(20AWG).

**Max. screw torque IEC60947-1**  
(Central fixing screw) :  
Max. 0.5 N \* m.

**Type of terminations :**  
Solder wires.

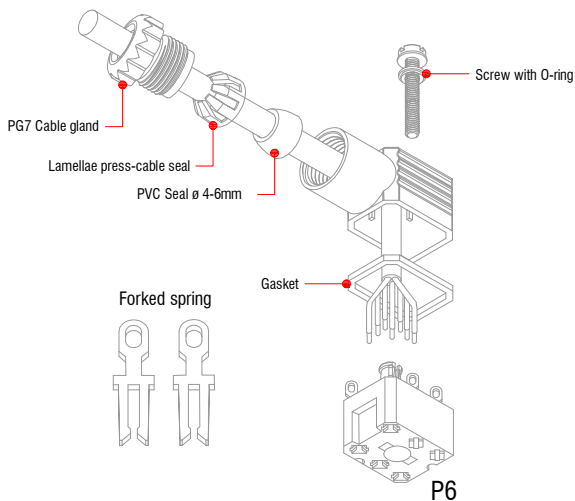
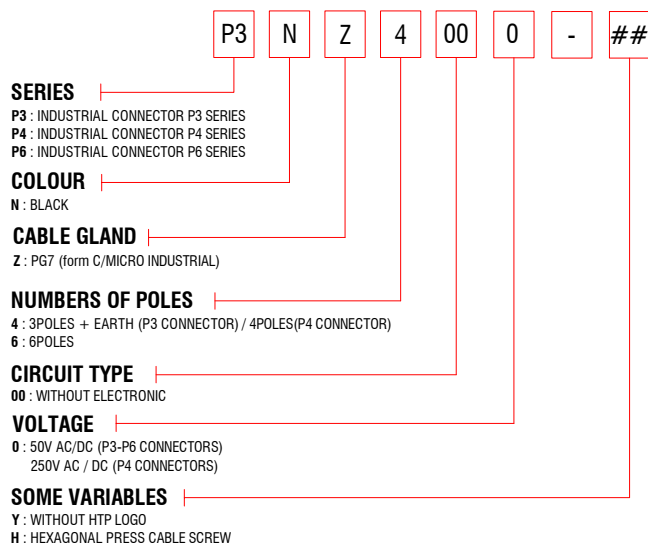
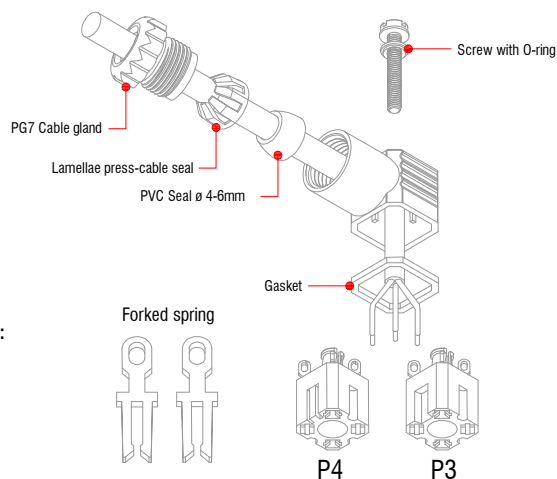
**Contact material and treatment :**  
Brass + tin plated.

**Housing material :**  
PA66 UL94-V2

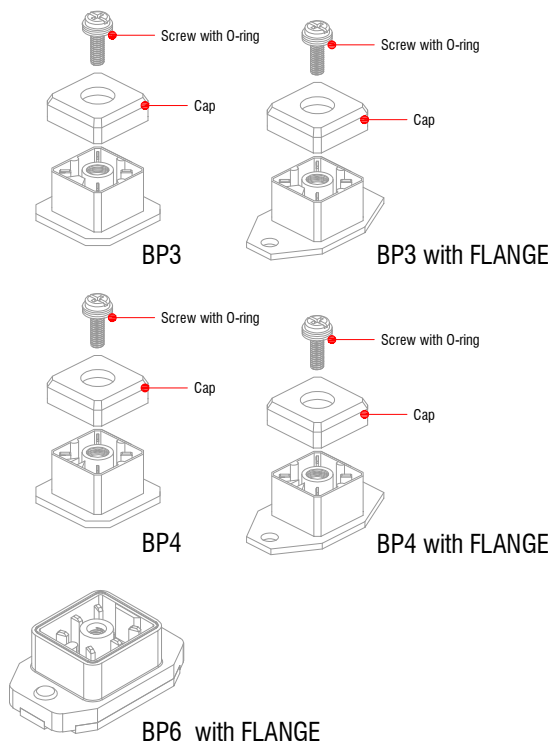
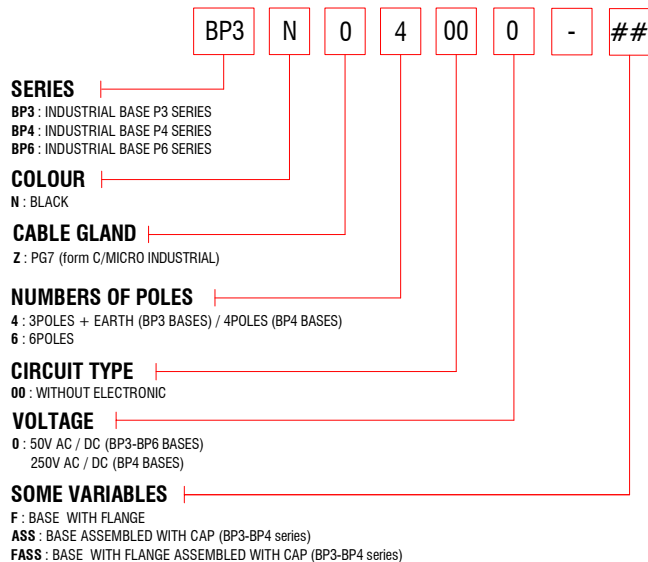
**Internal core material :**  
PA66 UL94-V2

**Operating temperature :**  
-40°C +90°C

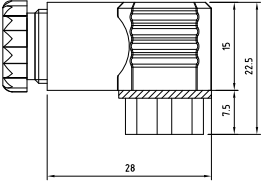
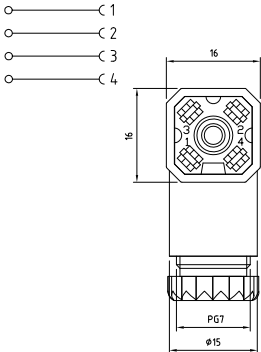
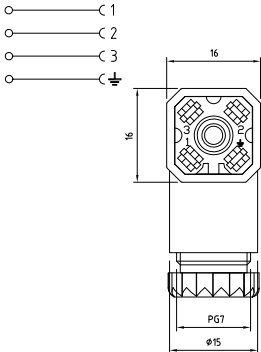
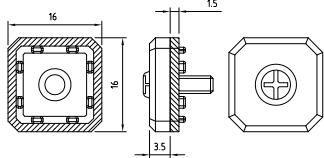
**Protection class :**  
IP 65 (assembled).



## • GENERAL FEATURES BASIS:



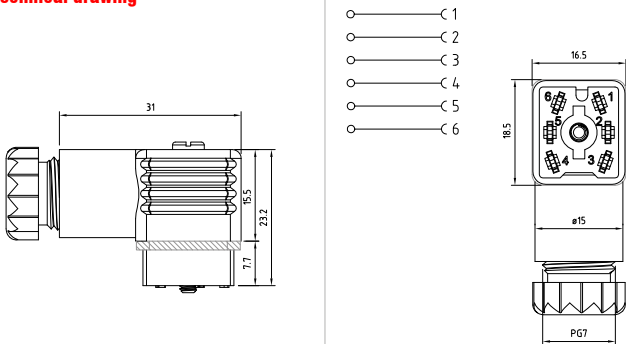


|                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                             |                                                                                                             |                                                                      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| <b>Technical drawing</b>     |                                                                                                             |                                                                                                             |                                                                      |
| <b>Product description</b>                                                                                                                                                                                                                                                                                                                                          |                                                                                                             |                                                                                                             |                                                                      |
| Connector type                                                                                                                                                                                                                                                                                                                                                      | Industrial connectors                                                                                       | Industrial connectors                                                                                       | Accessories                                                          |
| Conforms to                                                                                                                                                                                                                                                                                                                                                         | IEC 61984                                                                                                   | IEC 61984                                                                                                   | -                                                                    |
| Construction type                                                                                                                                                                                                                                                                                                                                                   | -                                                                                                           | -                                                                                                           | -                                                                    |
| Part number                                                                                                                                                                                                                                                                                                                                                         | <b>P3NZ4000</b>                                                                                             | <b>P4NZ4000</b>                                                                                             | <b>BP3NZ4000-CAP</b>                                                 |
| Description                                                                                                                                                                                                                                                                                                                                                         | Industrial connector 16X16mm P3 series complete with gasket and fixing screw. Connector without electronic. | Industrial connector 16X16mm P4 series complete with gasket and fixing screw. Connector without electronic. | Cap for basis BP3 and BP4 series complete with central fixing screw. |
| Number of contacts                                                                                                                                                                                                                                                                                                                                                  | 4poles                                                                                                      | 3poles + P.E.                                                                                               |                                                                      |
| Housing colour                                                                                                                                                                                                                                                                                                                                                      | Black                                                                                                       | Black                                                                                                       | Black                                                                |
| Height housing                                                                                                                                                                                                                                                                                                                                                      | 15mm                                                                                                        | 15mm                                                                                                        |                                                                      |
| Cable gland                                                                                                                                                                                                                                                                                                                                                         | PG7                                                                                                         | PG7                                                                                                         |                                                                      |
| Gasket type                                                                                                                                                                                                                                                                                                                                                         | NBR gasket                                                                                                  | NBR gasket                                                                                                  | NBR gasket                                                           |
| <b>Technical data</b>                                                                                                                                                                                                                                                                                                                                               |                                                                                                             |                                                                                                             |                                                                      |
| Type of termination                                                                                                                                                                                                                                                                                                                                                 | Solder contacts                                                                                             | Solder contacts                                                                                             |                                                                      |
| Contact screw torque                                                                                                                                                                                                                                                                                                                                                | -                                                                                                           | -                                                                                                           |                                                                      |
| Rated voltage                                                                                                                                                                                                                                                                                                                                                       | 50V AC/DC                                                                                                   | 250V AC/DC                                                                                                  |                                                                      |
| Rated current                                                                                                                                                                                                                                                                                                                                                       | 6A                                                                                                          | 6A                                                                                                          |                                                                      |
| Circuit type                                                                                                                                                                                                                                                                                                                                                        | Without electronic                                                                                          | Without electronic                                                                                          |                                                                      |
| Led colour                                                                                                                                                                                                                                                                                                                                                          | -                                                                                                           | -                                                                                                           |                                                                      |
| Suitable cable                                                                                                                                                                                                                                                                                                                                                      | Ø cable 4-6mm                                                                                               | Ø cable 4-6mm                                                                                               |                                                                      |
| Central fixing screw                                                                                                                                                                                                                                                                                                                                                | M3 L=23mm                                                                                                   | M3 L=23mm                                                                                                   |                                                                      |
| Central fixing screw material                                                                                                                                                                                                                                                                                                                                       | Stainless steel AISI304                                                                                     | Stainless steel AISI304                                                                                     | Stainless steel AISI304                                              |
| Central screw torque                                                                                                                                                                                                                                                                                                                                                | 0.5 N*m                                                                                                     | 0.5 N*m                                                                                                     |                                                                      |
| <b>Packaging</b>                                                                                                                                                                                                                                                                                                                                                    |                                                                                                             |                                                                                                             |                                                                      |
| Qty/Box                                                                                                                                                                                                                                                                                                                                                             | 50pcs / bag                                                                                                 | 50pcs / bag                                                                                                 | 50pcs / bag                                                          |
| <b>Other accessories options</b>                                                                                                                                                                                                                                                                                                                                    |                                                                                                             |                                                                                                             |                                                                      |
| See accessories section                                                                                                                                                                                                                                                                                                                                             |                                                                                                             |                                                                                                             |                                                                      |
| <b>Notes:</b>                                                                                                                                                                                                                                                                                                                                                       |                                                                                                             |                                                                                                             |                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                             |                                                                                                             | <b>CAP</b> suitable for BP3/BP4 connectors.                          |





Technical drawing



Product description

|                    |                                                                                                                 |  |  |
|--------------------|-----------------------------------------------------------------------------------------------------------------|--|--|
| Connector type     | Industrial connectors                                                                                           |  |  |
| Conforms to        | IEC 61984                                                                                                       |  |  |
| Construction type  | -                                                                                                               |  |  |
| Part number        | <b>P6NZ6000</b>                                                                                                 |  |  |
| Description        | Industrial connector 18.5X16.5mm P6 series complete with gasket and fixing screw. Connector without electronic. |  |  |
| Number of contacts | 6poles                                                                                                          |  |  |
| Housing colour     | Black                                                                                                           |  |  |
| Height housing     | 15.5mm                                                                                                          |  |  |
| Cable gland        | PG7                                                                                                             |  |  |
| Gasket type        | NBR gasket                                                                                                      |  |  |

Technical data

|                               |                         |  |  |
|-------------------------------|-------------------------|--|--|
| Type of termination           | Solder contacts         |  |  |
| Contact screw torque          | -                       |  |  |
| Rated voltage                 | 50V AC/DC               |  |  |
| Rated current                 | 6A                      |  |  |
| Circuit type                  | Without electronic      |  |  |
| Led colour                    | -                       |  |  |
| Suitable cable                | Ø cable 4-6mm           |  |  |
| Central fixing screw          | M3 L=23mm               |  |  |
| Central fixing screw material | Stainless steel AISI304 |  |  |
| Central screw torque          | 0.5 N*m                 |  |  |
|                               |                         |  |  |
|                               |                         |  |  |

Packaging

|         |             |  |  |
|---------|-------------|--|--|
| Qty/Box | 50pcs / bag |  |  |
|---------|-------------|--|--|

Other accessories options

|                         |  |  |  |
|-------------------------|--|--|--|
| See accessories section |  |  |  |
|-------------------------|--|--|--|

Notes:

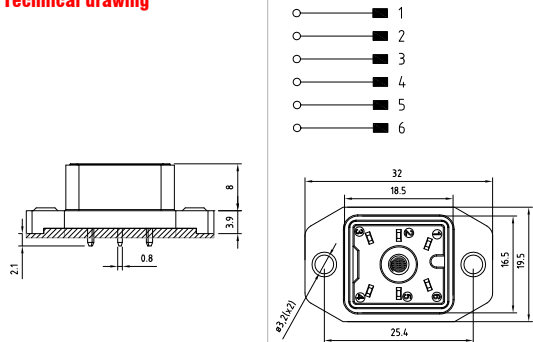
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|                                  |                                                               |                                                                            |                                                               |                                                                            |
|----------------------------------|---------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------------------------------|
| <b>Technical drawing</b>         |                                                               |                                                                            |                                                               |                                                                            |
|                                  |                                                               |                                                                            |                                                               |                                                                            |
| <b>Product description</b>       |                                                               |                                                                            |                                                               |                                                                            |
| Connector type                   | Industrial base                                               | Industrial base                                                            | Industrial base                                               | Industrial base                                                            |
| Conforms to                      | IEC 61984                                                     | IEC 61984                                                                  | IEC 61984                                                     | IEC 61984                                                                  |
| Construction type                | -                                                             | -                                                                          | -                                                             | -                                                                          |
| Part number                      | <b>BP3N04000</b>                                              | <b>BP3N04000-F</b>                                                         | <b>BP4N04000</b>                                              | <b>BP4N04000-F</b>                                                         |
| Description                      | Industrial base 16X16mm BP3 series complete with flat gasket. | Industrial base 16X16mm BP3 series with flange, complete with flat gasket. | Industrial base 16X16mm BP4 series complete with flat gasket. | Industrial base 16X16mm BP4 series with flange, complete with flat gasket. |
| Number of contacts               | 4poles                                                        | 4poles                                                                     | 3poles + P.E.                                                 | 3poles + P.E.                                                              |
| Base colour                      | Black                                                         | Black                                                                      | Black                                                         | Black                                                                      |
| Gasket type                      | -                                                             | Flat NBR gasket                                                            | -                                                             | Flat NBR gasket                                                            |
| <b>Technical data</b>            |                                                               |                                                                            |                                                               |                                                                            |
| Type of termination              | Contacts to solder PCB                                        | Contacts to solder PCB                                                     | Contacts to solder PCB                                        | Contacts to solder PCB                                                     |
| Rated voltage                    | 50V AC/DC                                                     | 50V AC/DC                                                                  | 250V AC/DC                                                    | 250V AC/DC                                                                 |
| Rated current                    | 6A                                                            | 6A                                                                         | 6A                                                            | 6A                                                                         |
| Number of fixing holes           | -                                                             | N°2                                                                        | -                                                             | N°2                                                                        |
| Diameter of fixing holes         | -                                                             | ø3.2mm                                                                     | -                                                             | ø3.2mm                                                                     |
| Fixing holes distance            | -                                                             | 23mm                                                                       | -                                                             | 23mm                                                                       |
| Central nut type                 | Closed                                                        | Closed                                                                     | Closed                                                        | Closed                                                                     |
| <b>Packaging</b>                 |                                                               |                                                                            |                                                               |                                                                            |
| Qty/Box                          | 400pcs / box                                                  | 300pcs / box                                                               | 400pcs / box                                                  | 300pcs / box                                                               |
| <b>Other accessories options</b> |                                                               |                                                                            |                                                               |                                                                            |
| See accessories section          |                                                               |                                                                            |                                                               |                                                                            |
| <b>Notes:</b>                    | <b>BP3N04000-ASS</b> : Base assembled with cup.               | <b>BP3N04000-FASS</b> : Base assembled with cup.                           | <b>BP4N04000-ASS</b> : Base assembled with cup.               | <b>BP3N04000-FASS</b> : Base assembled with cup.                           |



Technical drawing



Product description

|                    |                                                                               |  |  |  |
|--------------------|-------------------------------------------------------------------------------|--|--|--|
| Connector type     | Industrial base                                                               |  |  |  |
| Conforms to        | IEC 61984                                                                     |  |  |  |
| Construction type  | -                                                                             |  |  |  |
| Part number        | <b>BP6N04000-F</b>                                                            |  |  |  |
| Description        | Industrial base 18.5X16.5mm BP3 series with flange,complete with flat gasket. |  |  |  |
| Number of contacts | 6poles                                                                        |  |  |  |
| Base colour        | Black                                                                         |  |  |  |
| Gasket type        | Flat NBR gasket                                                               |  |  |  |
|                    |                                                                               |  |  |  |
|                    |                                                                               |  |  |  |

Technical data

|                          |                        |  |  |  |
|--------------------------|------------------------|--|--|--|
| Type of termination      | Contacts to solder PCB |  |  |  |
| Rated voltage            | 50V AC/DC              |  |  |  |
| Rated current            | 6A                     |  |  |  |
| Number of fixing holes   | N°2                    |  |  |  |
| Diameter of fixing holes | ø3.2mm                 |  |  |  |
| Fixing holes distance    | 25.4mm                 |  |  |  |
| Central nut type         | Closed                 |  |  |  |
|                          |                        |  |  |  |
|                          |                        |  |  |  |
|                          |                        |  |  |  |
|                          |                        |  |  |  |

Packaging

|         |              |  |  |  |
|---------|--------------|--|--|--|
| Qty/Box | 200pcs / box |  |  |  |
|---------|--------------|--|--|--|

Other accessories options

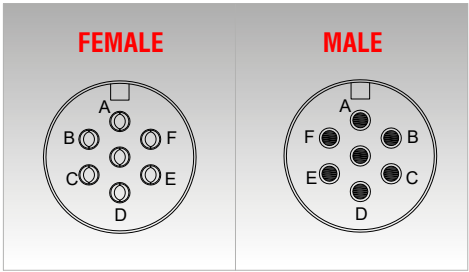
|                         |  |  |  |  |
|-------------------------|--|--|--|--|
| See accessories section |  |  |  |  |
|-------------------------|--|--|--|--|

Notes:

|  |  |  |  |  |
|--|--|--|--|--|
|  |  |  |  |  |
|--|--|--|--|--|

# • **GENERAL FEATURES FIELD ATTACHABLE CONNECTORS/ TO PANEL:**

The technical data of the circular connectors series 15 is in conformity with EN175000.  
 Specific features of these connectors are solid construction and easy handling.  
 This series of connector is interchangeable with MIL-C-5015, shell size 14S connectors.  
 Mains fields of application are proportional valves and measurement, test and control.



**Cable Gland :**  
**PG11 :** ø cable 6-10mm(field attachable).

**Housing material :**  
 PA66 UL94-V2 (field attachable).  
 Brass + Nickel plated (to panel).

**Operating temperature :**  
 -40°C +90°C.

**Conductor cross section :**  
 0.5mm²(20AWG)...1.5mm²(16AWG).

**Coupling nut material:**  
 Brass + Nickel plated.

**Rated voltage:**  
 ~ 60V / ~ 75V.

**Type of terminations :**  
 Solder wires.

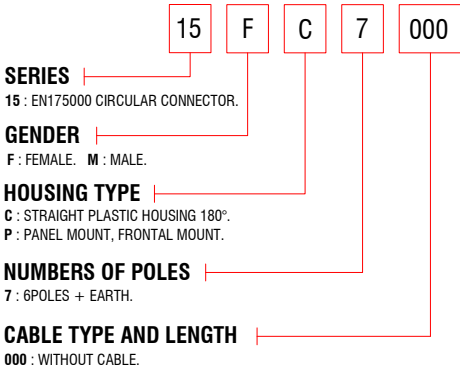
**Internal core material :**  
 PA66 UL94-V2.

**Rated insulation voltage:**  
 ~ 150V.

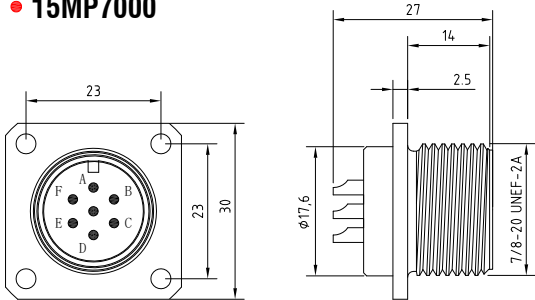
**Contact material and treatment :**  
 Brass + gold flash.

**Protection class :**  
 IP65 (assembled).

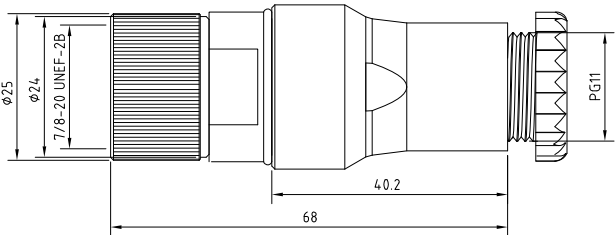
**Nominal current :**  
 6A (0.5mm²).  
 9A (1.5mm²).



## • **15MP7000**



## • **15FC7000**



**Notes:**

[illegible]



**INDUSTRIAL LIGHTING**





IP 67

| Code                  | Material      | Lighting Length | Rated Voltage | Rated Power | Luminous flux | Lighting colour  | Protection class IP | Temperature range °C | No. of FIXING CLIPS |
|-----------------------|---------------|-----------------|---------------|-------------|---------------|------------------|---------------------|----------------------|---------------------|
| <b>LED-T0250-12MD</b> | Polycarbonate | 0.25m           | 24V DC        | 3,9 W       | 550 Lm        | 6000K Pure White | IP67                | -25°C / +60°C        | No.2                |
| <b>LED-T0500-12MD</b> | Polycarbonate | 0.5m            | 24V DC        | 7,7 W       | 1100 Lm       | 6000K Pure White | IP67                | -25°C / +60°C        | No.2                |
| <b>LED-T1000-12MD</b> | Polycarbonate | 1m              | 24V DC        | 15,4 W      | 2200 Lm       | 6000K Pure White | IP67                | -25°C / +60°C        | No.2                |
| <b>LED-T2000-12MD</b> | Polycarbonate | 2m              | 24V DC        | 30,7 W      | 4400 Lm       | 6000K Pure White | IP67                | -25°C / +60°C        | No.2                |



IP 67

| Code                       | Material      | Lighting Length | Rated Voltage | Rated Power | Luminous flux | Lighting colour  | Protection class IP | Temperature range °C | No. of FIXING CLIPS |
|----------------------------|---------------|-----------------|---------------|-------------|---------------|------------------|---------------------|----------------------|---------------------|
| <b>LED-12FD-T0250-12MD</b> | Polycarbonate | 0.25m           | 24V DC        | 3,9 W       | 550 Lm        | 6000K Pure White | IP67                | -25°C / +60°C        | No.2                |
| <b>LED-12FD-T0500-12MD</b> | Polycarbonate | 0.5m            | 24V DC        | 7,7 W       | 1100 Lm       | 6000K Pure White | IP67                | -25°C / +60°C        | No.2                |
| <b>LED-12FD-T1000-12MD</b> | Polycarbonate | 1m              | 24V DC        | 15,4 W      | 2200 Lm       | 6000K Pure White | IP67                | -25°C / +60°C        | No.2                |
| <b>LED-12FD-T2000-12MD</b> | Polycarbonate | 2m              | 24V DC        | 30,7 W      | 4400 Lm       | 6000K Pure White | IP67                | -25°C / +60°C        | No.2                |



IP 54

| Code                  | Material      | Lighting Length | Rated Voltage | Rated Power | Luminous flux | Lighting colour  | Protection class IP | Temperature range °C | No. of FIXING CLIPS |
|-----------------------|---------------|-----------------|---------------|-------------|---------------|------------------|---------------------|----------------------|---------------------|
| <b>LED-P0250-12MD</b> | Polycarbonate | 0.25m           | 24V DC        | 3,9 W       | 450 Lm        | 4500K Pure White | IP54                | -25°C / +60°C        | No.2                |
| <b>LED-P0500-12MD</b> | Polycarbonate | 0.5m            | 24V DC        | 7,7 W       | 900 Lm        | 4500K Pure White | IP54                | -25°C / +60°C        | No.3                |
| <b>LED-P1000-12MD</b> | Polycarbonate | 1m              | 24V DC        | 15,4 W      | 1800 Lm       | 4500K Pure White | IP54                | -25°C / +60°C        | No.4                |
| <b>LED-P2000-12MD</b> | Polycarbonate | 2m              | 24V DC        | 30,7 W      | 3600 Lm       | 4500K Pure White | IP54                | -25°C / +60°C        | No.6                |





**IP 54**

| Code                       | Material      | Lighting Length | Rated Voltage | Rated Power | Luminous flux | Lighting colour  | Protection class IP | Temperature range °C | No. of FIXING CLIPS |
|----------------------------|---------------|-----------------|---------------|-------------|---------------|------------------|---------------------|----------------------|---------------------|
| <b>LED-12FD-P0250-12MD</b> | Polycarbonate | 0.25m           | 24V DC        | 3,9 W       | 450 Lm        | 4500K Pure White | IP54                | -25°C / +60°C        | No.2                |
| <b>LED-12FD-P0500-12MD</b> | Polycarbonate | 0.5m            | 24V DC        | 7,7 W       | 900 Lm        | 4500K Pure White | IP54                | -25°C / +60°C        | No.3                |
| <b>LED-12FD-P1000-12MD</b> | Polycarbonate | 1m              | 24V DC        | 15,4 W      | 1800 Lm       | 4500K Pure White | IP54                | -25°C / +60°C        | No.4                |
| <b>LED-12FD-P2000-12MD</b> | Polycarbonate | 2m              | 24V DC        | 30,7 W      | 3600 Lm       | 4500K Pure White | IP54                | -25°C / +60°C        | No.6                |



**IP 67**

| Code                  | Material           | Lighting Length | Rated Voltage | Rated Power | Luminous flux | Lighting colour  | Protection class IP | Temperature range °C | No. of FIXING CLIPS |
|-----------------------|--------------------|-----------------|---------------|-------------|---------------|------------------|---------------------|----------------------|---------------------|
| <b>LED-G0250-12MD</b> | Borosilicate Glass | 0.25m           | 24V DC        | 3,9 W       | 450 Lm        | 4500K Pure White | IP67                | -25°C / +60°C        | No.2                |
| <b>LED-G0500-12MD</b> | Borosilicate Glass | 0.5m            | 24V DC        | 7,7 W       | 900 Lm        | 4500K Pure White | IP67                | -25°C / +60°C        | No.3                |
| <b>LED-G1000-12MD</b> | Borosilicate Glass | 1m              | 24V DC        | 15,4 W      | 1800 Lm       | 4500K Pure White | IP67                | -25°C / +60°C        | No.4                |
| <b>LED-G2000-12MD</b> | Borosilicate Glass | 2m              | 24V DC        | 30,7 W      | 3600 Lm       | 4500K Pure White | IP67                | -25°C / +60°C        | No.6                |



**IP 67**

| Code                       | Material           | Lighting Length | Rated Voltage | Rated Power | Luminous flux | Lighting colour  | Protection class IP | Temperature range °C | No. of FIXING CLIPS |
|----------------------------|--------------------|-----------------|---------------|-------------|---------------|------------------|---------------------|----------------------|---------------------|
| <b>LED-12FD-G0250-12MD</b> | Borosilicate Glass | 0.25m           | 24V DC        | 3,9 W       | 450 Lm        | 4500K Pure White | IP67                | -25°C / +60°C        | No.2                |
| <b>LED-12FD-G0500-12MD</b> | Borosilicate Glass | 0.5m            | 24V DC        | 7,7 W       | 900 Lm        | 4500K Pure White | IP67                | -25°C / +60°C        | No.3                |
| <b>LED-12FD-G1000-12MD</b> | Borosilicate Glass | 1m              | 24V DC        | 15,4 W      | 1800 Lm       | 4500K Pure White | IP67                | -25°C / +60°C        | No.4                |
| <b>LED-12FD-G2000-12MD</b> | Borosilicate Glass | 2m              | 24V DC        | 30,7 W      | 3600 Lm       | 4500K Pure White | IP67                | -25°C / +60°C        | No.6                |

LED LIGHT TUBE WITH CABLE:

LED

-

C

1000

-

A1

2Z

-

230V

SERIES

LED : LED LAMP.

LED TYPE

C: WITH CABLE .

LED LAMP LENGTH

0250 : 0.25m.    0500 : 0.5m.    1000 : 1m.

CABLE TYPE

A1: PVC/PVC IEC332-1 H03VVF 2X0,5mm² BLACK.

CABLE LENGTH

2Z : 2m.

RATED VOLTAGE

230V : 230V AC.  
NO DIGIT : 24V DC.



| Code           | Material      | Lighting Length | Rated Voltage | Rated Power | Luminous flux | Lighting colour  | Temperature range °C | No. of FIXING CLIPS | Cable type                | Cable length |
|----------------|---------------|-----------------|---------------|-------------|---------------|------------------|----------------------|---------------------|---------------------------|--------------|
| LED-C0250-A12Z | Polycarbonate | 0.25m           | 24V DC        | 3,9 W       | 450 Lm        | 4500K Pure White | -25°C / +60°C        | No.2                | PVC IEC332-1 H05VVF BLACK | 2m           |
| LED-C0500-A12Z | Polycarbonate | 0.5m            | 24V DC        | 7,7 W       | 900 Lm        | 4500K Pure White | -25°C / +60°C        | No.3                | PVC IEC332-1 H05VVF BLACK | 2m           |
| LED-C1000-A12Z | Polycarbonate | 1m              | 24V DC        | 15,4 W      | 1800 Lm       | 4500K Pure White | -25°C / +60°C        | No.4                | PVC IEC332-1 H05VVF BLACK | 2m           |
| LED-C2000-A12Z | Polycarbonate | 2m              | 24V DC        | 15,4 W      | 1800 Lm       | 4500K Pure White | -25°C / +60°C        | No.6                | PVC IEC332-1 H05VVF BLACK | 2m           |



| Code                | Material      | Lighting Length | Rated Voltage | Rated Power | Lighting colour  | Temperature range °C | No. of FIXING CLIPS | Cable type                | Cable length |
|---------------------|---------------|-----------------|---------------|-------------|------------------|----------------------|---------------------|---------------------------|--------------|
| LED-C0250-A12Z-230V | Polycarbonate | 0.25m           | 230V AC       | 5 W         | 4500K Pure White | -25°C / +60°C        | No.2                | PVC IEC332-1 H05VVF BLACK | 2m           |
| LED-C0500-A12Z-230V | Polycarbonate | 0.5m            | 230V AC       | 8 W         | 4500K Pure White | -25°C / +60°C        | No.2                | PVC IEC332-1 H05VVF BLACK | 2m           |
| LED-C1000-A12Z-230V | Polycarbonate | 1m              | 230V AC       | 16 W        | 4500K Pure White | -25°C / +60°C        | No.2                | PVC IEC332-1 H05VVF BLACK | 2m           |

TUBULAR LAMPS NOTE:

1. For the 24V DC LED lights it is possible to supply tubular lamps with different lengths required by the customer; our tubular lamps are composed of 6 LED segments L ~80mm, therefore you can add or remove 6 LED segments.

2. For the 230V AC LED lamps it is possible to provide only tubular lamps with standard dimensions 250/500/1000mm

3. Upon request the LED Lights can be supplied with different types of cable and different cable lengths.
- For any further information please contact us.



● **GENERAL FEATURES OF INDUSTRIAL CIRCULAR LIGHTING:**

**Lighting material :**  
PC Windows.  
Alluminium housing.

**Fixing system :**  
M30x1.5 Fixing nut.

**Type of terminations :**  
M12 Male plug.

**Max. screw torque IEC60947-1**  
M12 coupling nut torque 0.4 N\*m

**M12 material :**  
Coupling nut: Brass + Nickel plated.  
Internal core: PA66.  
Contacts: Brass + Gold flash.

**Protection class :**  
IP 67.

**Storage temperature :**  
-40°C +70°C  
-20°C +50°C HUMIDITY 90%

**Rated current:**  
12/18 V : 0.208A  
24 V : 0.104A  
30/36 V : 0.83A

**Operating voltage:**  
ø 50mm : 18-30 V DC  
ø 64mm : 18-30 V DC

**Rated Power:**  
ø 50mm : 2.5 W  
ø 64mm : 4.2 W

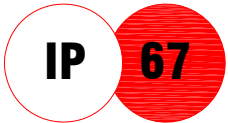
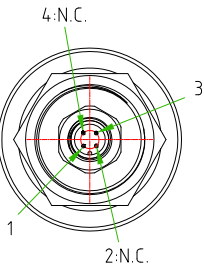
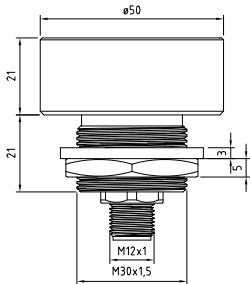
**Light colour:**  
6000K Cool White.

**Lumens(25°C):**  
ø 50mm : 200Lm  
ø 64mm : 330Lm

**Life Time:**  
After 50000 hour light decay less  
then 30%.

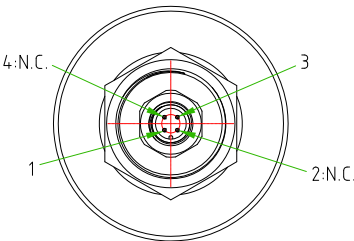
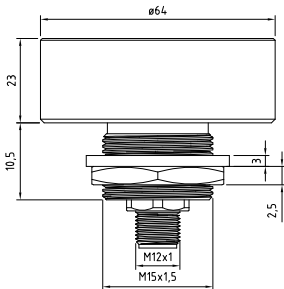
**Packaging:**  
1piece / box.

**LED-50-12MD**



LED-50-12MD

**LED-64-12MD**



LED-64-12MD

● **ACCESSORIES:**



| Code            | Description                                                                                             | Cable length | PACKAGING    |
|-----------------|---------------------------------------------------------------------------------------------------------|--------------|--------------|
| LED-PS-EU-12FD  | Feeder EUROPEAN connection + M12 female connector                                                       | 1.8m         | 1piece / box |
| LED-PS-USA-12FD | Feeder AMERICAN connection + M12 female connector                                                       | 1.8m         | 1piece / box |
| LED-PS-UL-12FD  | Feeder (ULappr.-only feeder)with INTERCHANGEABLE connection (EU,UK,USA/JP,CN/AU) + M12 female connector | 1.7m         | 1piece / box |

**Notes:**

[illegible]



**SENSORS (MAGNETIC  
PROXIMITY SWITCHES)**



## ● GENERAL FEATURES:

The magnetic sensor is a device that change its status with the magnetic field.

Basically it's used as proximity end-stroke on the pneumatic cylinders which have the piston holding a magnet.

Therefore, fastening the sensor, on its seat on the external part of the cylinder housing, it is possible to get the information relative to the position of the piston, by an electrical contact or a voltage output, depending on the kind sensor which can be REED switch or static (GMR magneto resistive chip) respectively.

The sensor cabled or quick connect are available.

Our custom service is accessible round-the-clock to meet specific requirements for which standard products are not satisfactory.

## ● PROTECTION CIRCUIT FOR SWITCHES:

The switching of inductive loads made by REED produces an high voltage peak during the drop-out. In order to prevent dielectric discharges or voltaic arcs, you have to introduce a protection circuit.

It can be:

- a RC circuit in parallel to the switch in case of

V dc supply - ( Picture n.1 ) -

- a diode in parallel to the load in case of V dc supply - ( Picture n.2 ) -

- n.2 Zener diodes in parallel to the load with

V ac / dc supply - ( Picture n.3 ) -

- a varistor (VDR) in parallel to the load with

V ac / dc supply - ( Picture n.4 ) -

The switching of capacitive loads or the use of cables longer than 10 meters produces current peaks during the connection. For this reason you have to introduce a protection resistance near the switch on the brown wire. Please, pay attention in granting the minimum necessary current to the switch. ( 10 ÷ 20 mA )

## ● SENSOR CHOICING:

Sensor choicing The sensor is a switch indeed, connect in series with a load, it must be used respecting its own electrical limit.

The functioning principles are two.

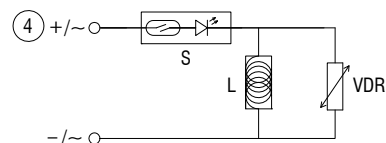
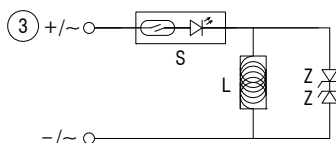
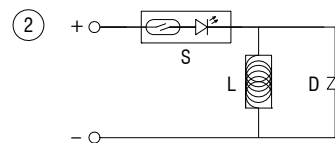
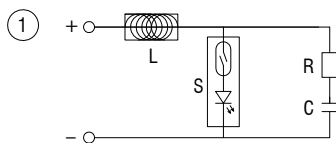
REED SWITCH: an electrical contact is switched by a magnetic field.

It can be supplied with both Vac and Vdc voltage.

In presence of vibration it can give troubles. If several sensors must be connected in series, it is recommended to utilize the version "D" to avoid the voltage drop due to the led indicators.

ELECTRONIC: a chip magneto resistor (GMR) is a solid-state device, therefore static (long life) with a voltage output NPN (sink) or PNP (source).

It must be supplied only with a 30Vdc max voltage. No problem in case of vibrations.



HSL 1 C 2 25 - G15

### SERIES

HCB ; HSA ; HSL ; HSM ; HSS

### CONNECTION

- 1 : 2 WIRES CABLE.
- 2 : 2 WIRES M8 SNAP CONNECTOR.
- 3 : 3 WIRES M8 SNAP CONNECTOR.
- 4 : 3 WIRES CABLE.
- 5 : 2 WIRES M12 SNAP CONNECTOR.
- 6 : 3 WIRES M12 SNAP CONNECTOR.
- 7 : 3 WIRES CABLE.
- 8 : 3 WIRES M8 AU SNAP CONNECTOR.
- 9 : 3 WIRES M12 AU SNAP CONNECTOR.

### CIRCUIT TYPE

- A : NO LED 2 WIRES - REED.
- B : NO LED + VDR 2 WIRES - REED.
- C : 2 WIRES - REED.
- D : 3 WIRES - REED PNP.
- F : NO LED 2 WIRES - NC REED.
- G : NO LED + VDR 2 WIRES - NC REED.
- H : 2 WIRES - NC REED.
- M : MAGNETO-RESISTIVE NPN.
- N : MAGNETO-RESISTIVE PNP.
- P : NC MAGNETO-RESISTIVE PNP.
- L : NC MAGNETO-RESISTIVE NPN.

### VOLTAGE

- 2 : 24 V AC/DC.
- 3 : 110 V AC.
- 5 : 250 V AC.

### CABLE LENGTH

- NO DIGIT : WITHOUT CABLE.
- 03 : EXTENSION WITH SENSOR + M8 L=0.3m.
- 25 : SENSOR + M8/M12 CONNECTOR WITH CABLE L=2.5m.

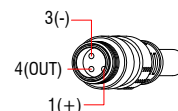
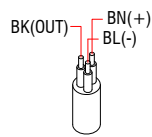
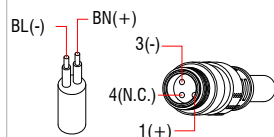
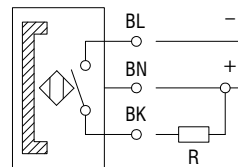
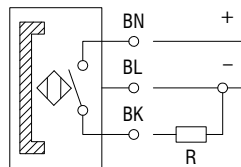
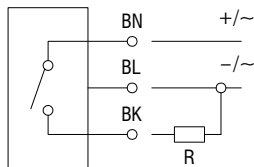
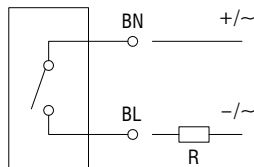
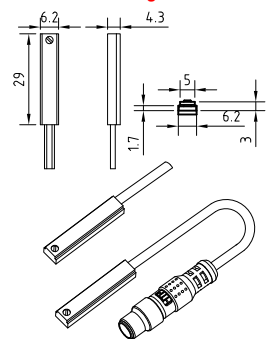


|                                  |                            |                               |                                     |                                     |
|----------------------------------|----------------------------|-------------------------------|-------------------------------------|-------------------------------------|
| <b>Technical drawing</b>         |                            |                               |                                     |                                     |
| <b>Product description</b>       |                            |                               |                                     |                                     |
| Sensor type                      | 2 wires REED NORMALLY OPEN | 3 wires REED NORMALLY OPEN    | Magneto-resistive PNP NORMALLY OPEN | Magneto-resistive NPN NORMALLY OPEN |
| <b>Sensor Part Number:</b>       |                            |                               |                                     |                                     |
| 2.5m moulded cable               | <b>HSA1C225-G15</b>        | <b>HSA4D225-G15</b>           | <b>HSA4N225-G15</b>                 | <b>HSA4M225-G15</b>                 |
| Extension Sensor+M8 conn. 0.3m   | <b>HSA2C203-G15</b>        | <b>HSA3D203-G15</b>           | <b>HSA3N203-G15</b>                 | <b>HSA3M203-G15</b>                 |
| <b>Technical data</b>            |                            |                               |                                     |                                     |
| Power Supply Rated voltage       | 3 ÷ 30 V AC/DC             | 3 ÷ 30 V AC/DC                | 6 ÷ 30 V AC/DC                      | 6 ÷ 30 V AC/DC                      |
| Switching current                | 0.2 A                      | 0.2 A                         | 0.2 A                               | 0.2 A                               |
| Power Rating                     | 6 W                        | 6 W                           | 6 W                                 | 6 W                                 |
| On voltage drop                  | < 3 V                      | //                            | < 1 V                               | < 1 V                               |
| Nominal operate point            | 20 ÷ 25 AT                 | 20 ÷ 25 AT                    | 40Gauss (34 ÷ 46 Gauss)             | 40Gauss (34 ÷ 46 Gauss)             |
| ON-OFF differential              | 5 ÷ 10 AT                  | 5 ÷ 10 AT                     | 5 ÷ 15 Gauss                        | 5 ÷ 15 Gauss                        |
| "ON" response time               | 0.5 ms                     | 0.5 ms                        | 0.8 µs                              | 0.8 µs                              |
| "OFF" response time              | 0.1 ms                     | 0.1 ms                        | 0.3 µs                              | 0.3 µs                              |
| Operating temperature            | - 10°C ÷ 70°C              | - 10°C ÷ 70°C                 | - 10°C ÷ 70°C                       | - 10°C ÷ 70°C                       |
| Operating frequency              | 500 Hz                     | 500 Hz                        | 200 KHz                             | 200 KHz                             |
| Life Time                        | 10 <sup>7</sup> imp        | 10 <sup>7</sup> imp           | 10 <sup>9</sup> imp                 | 10 <sup>9</sup> imp                 |
| Speed piston                     | 10 m/s                     | 10 m/s                        | 10 m/s                              | 10 m/s                              |
| Polarity - reversal protection   | Yes                        | Yes                           | Yes                                 | Yes                                 |
| Protection class                 | IP 67                      | IP 67                         | IP 67                               | IP 67                               |
| Sensor material                  | PA ; AISI 303 ; OT 63      | PA ; AISI 303 ; OT 63         | PA ; AISI 303 ; OT 63               | PA ; AISI 303 ; OT 63               |
| M8 connector material            | PUR gold plated brass      | PUR gold plated brass         | PUR gold plated brass               | PUR gold plated brass               |
| Cable type                       | PVC/PVC CEI2022 II O.R.    | PVC/PVC CEI2022 II O.R.       | PVC/PVC CEI2022 II O.R.             | PVC/PVC CEI2022 II O.R.             |
| Cable jacket colour              | Grey                       | Grey                          | Grey                                | Grey                                |
| No.Conductors / Section          | 2x0.14mm <sup>2</sup>      | 3x0.14mm <sup>2</sup>         | 3x0.14mm <sup>2</sup>               | 3x0.14mm <sup>2</sup>               |
| Conductor colours                | Brown(+); Blue(-);         | Brown(+); Blue(-); Black(OUT) | Brown(+); Blue(-); Black(OUT)       | Brown(+); Blue(-); Black(OUT)       |
| Cable length                     | 2.5m or 0.3m+M8 conn.      | 2.5m or 0.3m+M8 conn.         | 2.5m or 0.3m+M8 conn.               | 2.5m or 0.3m+M8 conn.               |
| <b>Packaging</b>                 |                            |                               |                                     |                                     |
| Qty/Box                          | 1pc / Bag                  | 1pc / Bag                     | 1pc / Bag                           | 1pc / Bag                           |
| <b>Other accessories options</b> |                            |                               |                                     |                                     |
| -                                |                            |                               |                                     |                                     |
| <b>Notes:</b>                    |                            |                               |                                     |                                     |





#### Technical drawing



#### Product description

|                                  |                            |                            |                                     |                                     |
|----------------------------------|----------------------------|----------------------------|-------------------------------------|-------------------------------------|
| Sensor type                      | 2 wires REED NORMALLY OPEN | 3 wires REED NORMALLY OPEN | Magneto-resistive PNP NORMALLY OPEN | Magneto-resistive NPN NORMALLY OPEN |
| Sensor Part Number:              |                            |                            |                                     |                                     |
| 2.5m moulded cable               | <b>HSL1C225-G15</b>        | <b>HSL4D225-G15</b>        | <b>HSL4N225-G15</b>                 | <b>HSL4M225-G15</b>                 |
| Extension Sensor + M8 conn. 0.3m | <b>HSL2C203-G15</b>        | <b>HSL3D203-G15</b>        | <b>HSL3N203-G15</b>                 | <b>HSL3M203-G15</b>                 |

#### Technical data

|                                |                         |                               |                               |                               |
|--------------------------------|-------------------------|-------------------------------|-------------------------------|-------------------------------|
| Power Supply Rated voltage     | 3 ÷ 30 V AC/DC          | 3 ÷ 30 V AC/DC                | 6 ÷ 30 V AC/DC                | 6 ÷ 30 V AC/DC                |
| Switching current              | 0.2 A                   | 0.2 A                         | 0.2 A                         | 0.2 A                         |
| Power Rating                   | 6 W                     | 6 W                           | 6 W                           | 6 W                           |
| On voltage drop                | < 3 V                   | //                            | < 1 V                         | < 1 V                         |
| Nominal operate point          | 20 ÷ 25 AT              | 20 ÷ 25 AT                    | 40Gauss (34 ÷ 46 Gauss)       | 40Gauss (34 ÷ 46 Gauss)       |
| ON-OFF differential            | 5 ÷ 10 AT               | 5 ÷ 10 AT                     | 5 ÷ 15 Gauss                  | 5 ÷ 15 Gauss                  |
| "ON" response time             | 0.5 ms                  | 0.5 ms                        | 0.8 µs                        | 0.8 µs                        |
| "OFF" response time            | 0.1 ms                  | 0.1 ms                        | 0.3 µs                        | 0.3 µs                        |
| Operating temperature          | - 10°C ÷ 70°C           | - 10°C ÷ 70°C                 | - 10°C ÷ 70°C                 | - 10°C ÷ 70°C                 |
| Operating frequency            | 500 Hz                  | 500 Hz                        | 200 KHz                       | 200 KHz                       |
| Life Time                      | 10 <sup>7</sup> imp     | 10 <sup>7</sup> imp           | 10 <sup>9</sup> imp           | 10 <sup>9</sup> imp           |
| Speed piston                   | 10 m/s                  | 10 m/s                        | 10 m/s                        | 10 m/s                        |
| Polarity - reversal protection | Yes                     | Yes                           | Yes                           | Yes                           |
| Protection class               | IP 67                   | IP 67                         | IP 67                         | IP 67                         |
| Sensor material                | PA ; AISI 303 ; OT 63   | PA ; AISI 303 ; OT 63         | PA ; AISI 303 ; OT 63         | PA ; AISI 303 ; OT 63         |
| M8 connector material          | PUR gold plated brass   | PUR gold plated brass         | PUR gold plated brass         | PUR gold plated brass         |
| Cable type                     | PVC/PVC CEI2022 II O.R. | PVC/PVC CEI2022 II O.R.       | PVC/PVC CEI2022 II O.R.       | PVC/PVC CEI2022 II O.R.       |
| Cable jacket colour            | Grey                    | Grey                          | Grey                          | Grey                          |
| No. Conductors / Section       | 2x0.14mm <sup>2</sup>   | 3x0.14mm <sup>2</sup>         | 3x0.14mm <sup>2</sup>         | 3x0.14mm <sup>2</sup>         |
| Conductor colours              | Brown(+); Blue(-)       | Brown(+); Blue(-); Black(OUT) | Brown(+); Blue(-); Black(OUT) | Brown(+); Blue(-); Black(OUT) |
| Cable length                   | 2.5m or 0.3m + M8 conn. | 2.5m or 0.3m + M8 conn.       | 2.5m or 0.3m + M8 conn.       | 2.5m or 0.3m + M8 conn.       |

#### Packaging

|         |           |           |           |           |
|---------|-----------|-----------|-----------|-----------|
| Qty/Box | 1pc / Bag | 1pc / Bag | 1pc / Bag | 1pc / Bag |
|---------|-----------|-----------|-----------|-----------|

#### Other accessories options

|   |  |  |  |  |
|---|--|--|--|--|
| - |  |  |  |  |
|---|--|--|--|--|

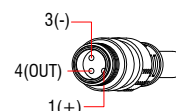
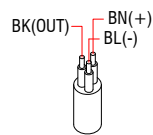
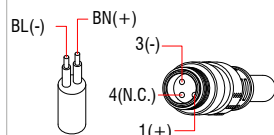
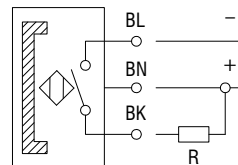
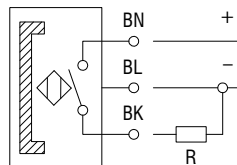
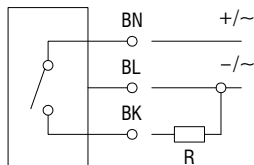
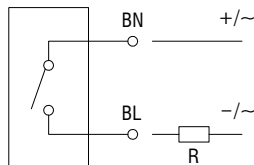
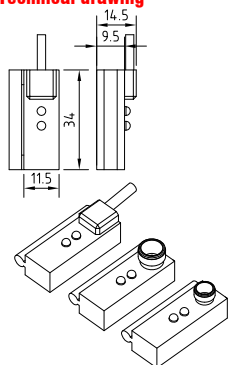
#### Notes:



|                                  |                            |                               |                                     |                                     |
|----------------------------------|----------------------------|-------------------------------|-------------------------------------|-------------------------------------|
| <b>Technical drawing</b>         |                            |                               |                                     |                                     |
|                                  |                            |                               |                                     |                                     |
| <b>Product description</b>       |                            |                               |                                     |                                     |
| Sensor type                      | 2 wires REED NORMALLY OPEN | 3 wires REED NORMALLY OPEN    | Magneto-resistive PNP NORMALLY OPEN | Magneto-resistive NPN NORMALLY OPEN |
| <b>Sensor Part Number:</b>       |                            |                               |                                     |                                     |
| 2.5m moulded cable               | <b>HSS1C225-G15</b>        | <b>HSS4D225-G15</b>           | <b>HSS4N225-G15</b>                 | <b>HSS4M225-G15</b>                 |
| Extension Sensor+M8 conn. 0.3m   | <b>HSS2C203-G15</b>        | <b>HSS3D203-G15</b>           | <b>HSS3N203-G15</b>                 | <b>HSS3M203-G15</b>                 |
| <b>Technical data</b>            |                            |                               |                                     |                                     |
| Power Supply Rated voltage       | 3 ÷ 30 V AC/DC             | 3 ÷ 30 V AC/DC                | 6 ÷ 30 V AC/DC                      | 6 ÷ 30 V AC/DC                      |
| Switching current                | 0.2 A                      | 0.2 A                         | 0.2 A                               | 0.2 A                               |
| Power Rating                     | 6 W                        | 6 W                           | 6 W                                 | 6 W                                 |
| On voltage drop                  | < 3 V                      | //                            | < 1 V                               | < 1 V                               |
| Nominal operate point            | 20 ÷ 25 AT                 | 20 ÷ 25 AT                    | 28Gauss (21 ÷ 35 Gauss)             | 28Gauss (21 ÷ 35 Gauss)             |
| ON-OFF differential              | 5 ÷ 10 AT                  | 5 ÷ 10 AT                     | 5 ÷ 15 Gauss                        | 5 ÷ 15 Gauss                        |
| "ON" response time               | 0.5 ms                     | 0.5 ms                        | 0.8 µs                              | 0.8 µs                              |
| "OFF" response time              | 0.1 ms                     | 0.1 ms                        | 0.3 µs                              | 0.3 µs                              |
| Operating temperature            | - 10°C ÷ 70°C              | - 10°C ÷ 70°C                 | - 10°C ÷ 70°C                       | - 10°C ÷ 70°C                       |
| Operating frequency              | 500 Hz                     | 500 Hz                        | 200 KHz                             | 200 KHz                             |
| Life Time                        | 10 <sup>7</sup> imp        | 10 <sup>7</sup> imp           | 10 <sup>9</sup> imp                 | 10 <sup>9</sup> imp                 |
| Speed piston                     | 10 m/s                     | 10 m/s                        | 10 m/s                              | 10 m/s                              |
| Polarity - reversal protection   | Yes                        | Yes                           | Yes                                 | Yes                                 |
| Protection class                 | IP 67                      | IP 67                         | IP 67                               | IP 67                               |
| Sensor material                  | PA ; AISI 303 ; OT 63      | PA ; AISI 303 ; OT 63         | PA ; AISI 303 ; OT 63               | PA ; AISI 303 ; OT 63               |
| M8 connector material            | PUR gold plated brass      | PUR gold plated brass         | PUR gold plated brass               | PUR gold plated brass               |
| Cable type                       | PVC/PVC CEI2022 II O.R.    | PVC/PVC CEI2022 II O.R.       | PVC/PVC CEI2022 II O.R.             | PVC/PVC CEI2022 II O.R.             |
| Cable jacket colour              | Grey                       | Grey                          | Grey                                | Grey                                |
| No.Conductors / Section          | 2x0.14mm <sup>2</sup>      | 3x0.14mm <sup>2</sup>         | 3x0.14mm <sup>2</sup>               | 3x0.14mm <sup>2</sup>               |
| Conductor colours                | Brown(+); Blue(-);         | Brown(+); Blue(-); Black(OUT) | Brown(+); Blue(-); Black(OUT)       | Brown(+); Blue(-); Black(OUT)       |
| Cable length                     | 2.5m or 0.3m+M8 conn.      | 2.5m or 0.3m+M8 conn.         | 2.5m or 0.3m+M8 conn.               | 2.5m or 0.3m+M8 conn.               |
| <b>Packaging</b>                 |                            |                               |                                     |                                     |
| Qty/Box                          | 1pc / Bag                  | 1pc / Bag                     | 1pc / Bag                           | 1pc / Bag                           |
| <b>Other accessories options</b> |                            |                               |                                     |                                     |
| -                                |                            |                               |                                     |                                     |
| <b>Notes:</b>                    |                            |                               |                                     |                                     |



#### Technical drawing



#### Product description

|                     |                            |                            |                                     |                                     |
|---------------------|----------------------------|----------------------------|-------------------------------------|-------------------------------------|
| Sensor type         | 2 wires REED NORMALLY OPEN | 3 wires REED NORMALLY OPEN | Magneto-resistive PNP NORMALLY OPEN | Magneto-resistive NPN NORMALLY OPEN |
| Sensor Part Number: |                            |                            |                                     |                                     |
| 2.5m moulded cable  | <b>HSM1C525-G15</b>        | <b>HSM4D225-G15</b>        | <b>HSM4N225-G15</b>                 | <b>HSM4M225-G15</b>                 |
| With M8 plug        | <b>HSM2C5-G15</b>          | <b>HSM3D2-G15</b>          | <b>HSM3N2-G15</b>                   | <b>HSM3M2-G15</b>                   |
| With M12 plug       | <b>HSM5C5-G15</b>          | <b>HSM6D2-G15</b>          | <b>HSM6N2-G15</b>                   | <b>HSM6M2-G15</b>                   |

#### Technical data

|                                |                         |                               |                               |                               |
|--------------------------------|-------------------------|-------------------------------|-------------------------------|-------------------------------|
| Power Supply Rated voltage     | 3 ÷ 250 V AC/DC         | 0 ÷ 24 V AC/DC                | 6 ÷ 30 V DC                   | 6 ÷ 30 V DC                   |
| Switching current              | 1.5 A                   | 2 A                           | 0.25 A                        | 0.25 A                        |
| Power Rating                   | 10 W                    | 10 W                          | 6 W                           | 6 W                           |
| On voltage drop                | < 3 V                   | //                            | < 1 V                         | < 1 V                         |
| Nominal operate point          | 20 ÷ 25 AT              | 20 ÷ 25 AT                    | 15Gauss (11 ÷ 22 Gauss)       | 15Gauss (11 ÷ 22 Gauss)       |
| ON-OFF differential            | 5 ÷ 10 AT               | 5 ÷ 10 AT                     | 4 ÷ 7 Gauss                   | 4 ÷ 7 Gauss                   |
| "ON" response time             | 0.5 ms                  | 0.5 ms                        | 0.8 µs                        | 0.8 µs                        |
| "OFF" response time            | 0.1 ms                  | 0.1 ms                        | 0.3 µs                        | 0.3 µs                        |
| Operating temperature          | - 10°C ÷ 70°C           | - 10°C ÷ 70°C                 | - 10°C ÷ 70°C                 | - 10°C ÷ 70°C                 |
| Operating frequency            | 500 Hz                  | 500 Hz                        | 200 Hz                        |                               |
| Life Time                      | 10 <sup>7</sup> imp     | 10 <sup>7</sup> imp           | 10 <sup>9</sup> imp           | 10 <sup>9</sup> imp           |
| Speed piston                   | 10 m/s                  | 10 m/s                        | 10 m/s                        | 10 m/s                        |
| Polarity - reversal protection | Yes                     | Yes                           | Yes                           | Yes                           |
| Protection class               | IP 67                   | IP 67                         | IP 67                         | IP 67                         |
| Sensor material                | PA ; AISI 303 ; OT 63   | PA ; AISI 303 ; OT 63         | PA ; AISI 303 ; OT 63         | PA ; AISI 303 ; OT 63         |
| M8-M12 plug material           | Brass                   | Brass                         | Brass                         | Brass                         |
| Cable type                     | PVC/PVC CEI2022 II O.R. | PVC/PVC CEI2022 II O.R.       | PVC/PVC CEI2022 II O.R.       | PVC/PVC CEI2022 II O.R.       |
| Cable jacket colour            | Grey                    | Grey                          | Grey                          | Grey                          |
| No.Conductors / Section        | 2x0.14mm <sup>2</sup>   | 3x0.14mm <sup>2</sup>         | 3x0.14mm <sup>2</sup>         | 3x0.14mm <sup>2</sup>         |
| Conductor colours              | Brown(+); Blue(-);      | Brown(+); Blue(-); Black(OUT) | Brown(+); Blue(-); Black(OUT) | Brown(+); Blue(-); Black(OUT) |
| Cable length                   | 2.5m                    | 2.5m                          | 2.5m                          | 2.5m                          |

#### Packaging

|         |           |           |           |           |
|---------|-----------|-----------|-----------|-----------|
| Qty/Box | 1pc / Bag | 1pc / Bag | 1pc / Bag | 1pc / Bag |
|---------|-----------|-----------|-----------|-----------|

#### Other accessories options

|   |  |  |  |  |
|---|--|--|--|--|
| - |  |  |  |  |
|---|--|--|--|--|

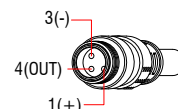
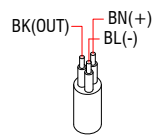
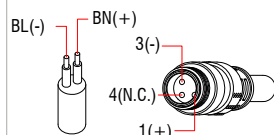
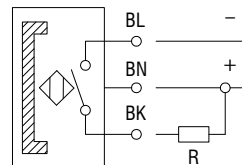
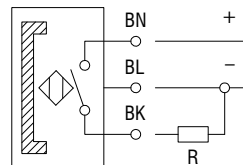
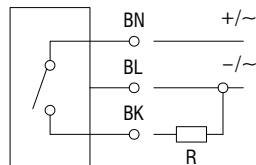
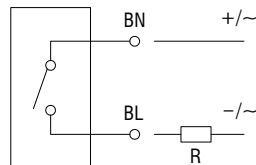
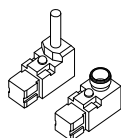
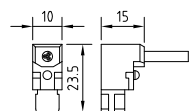
#### Notes:



|                                  |                               |                                     |  |  |
|----------------------------------|-------------------------------|-------------------------------------|--|--|
| <b>Technical drawing</b>         |                               |                                     |  |  |
|                                  |                               |                                     |  |  |
| <b>Product description</b>       |                               |                                     |  |  |
| Sensor type                      | 3 wires REED NORMALLY OPEN    | Magneto-resistive PNP NORMALLY OPEN |  |  |
| <b>Sensor Part Number:</b>       |                               |                                     |  |  |
| 2.5m moulded cable               | <b>HSM7D225-G15</b>           | <b>HSM7N225-G15</b>                 |  |  |
| With M8 plug                     | <b>HSM8D2-G15</b>             | <b>HSM8N203-G15</b>                 |  |  |
| With M12 plug                    | <b>HSM9D2-G15</b>             | <b>HSM9N203-G15</b>                 |  |  |
| <b>Technical data</b>            |                               |                                     |  |  |
| Power Supply Rated voltage       | 3 ÷ 30 V AC/DC                | 6 ÷ 30 V AC/DC                      |  |  |
| Switching current                | 0.2 A                         | 0.2 A                               |  |  |
| Power Rating                     | 6 W                           | 6 W                                 |  |  |
| On voltage drop                  | //                            | < 1 V                               |  |  |
| Nominal operate point            | 20 ÷ 25 AT                    | 40Gauss (34 ÷ 46 Gauss)             |  |  |
| ON-OFF differential              | 5 ÷ 10 Gauss                  | 5 ÷ 15 Gauss                        |  |  |
| "ON" response time               | - 10 ° ÷ 70°C                 | - 10 ° ÷ 70°C                       |  |  |
| "OFF" response time              | 0.5 ms                        | 0.8 µs                              |  |  |
| Operating temperature            | 0.1 ms                        | 0.3 µs                              |  |  |
| Operating frequency              | - 10°C ÷ 70°C                 | - 10°C ÷ 70°C                       |  |  |
| Life Time                        | 10 <sup>7</sup> imp           | 10 <sup>9</sup> imp                 |  |  |
| Speed piston                     | 10 m/s                        | 10 m/s                              |  |  |
| Polarity - reversal protection   | Yes                           | Yes                                 |  |  |
| Protection class                 | IP 68                         | IP 68                               |  |  |
| Sensor material                  | PA                            | PA                                  |  |  |
| M8-M12 plug material             | Brass                         | Brass                               |  |  |
| Cable type                       | PVC/PVC CEI2022 II O.R.       | PVC/PVC CEI2022 II O.R.             |  |  |
| Cable jacket colour              | Grey                          | Grey                                |  |  |
| No.Conductors / Section          | 3x0.14mm <sup>2</sup>         | 3x0.14mm <sup>2</sup>               |  |  |
| Conductor colours                | Brown(+); Blue(-); Black(OUT) | Brown(+); Blue(-); Black(OUT)       |  |  |
| Cable length                     | 2.5m                          | 2.5m                                |  |  |
| <b>Packaging</b>                 |                               |                                     |  |  |
| Qty/Box                          |                               |                                     |  |  |
| <b>Other accessories options</b> |                               |                                     |  |  |
| -                                |                               |                                     |  |  |
| <b>Notes:</b>                    |                               |                                     |  |  |



#### Technical drawing



#### Product description

|                     |                            |                            |                                     |                                     |
|---------------------|----------------------------|----------------------------|-------------------------------------|-------------------------------------|
| Sensor type         | 2 wires REED NORMALLY OPEN | 3 wires REED NORMALLY OPEN | Magneto-resistive PNP NORMALLY OPEN | Magneto-resistive NPN NORMALLY OPEN |
| Sensor Part Number: |                            |                            |                                     |                                     |
| 2.5m moulded cable  | <b>HCB1C425-G15</b>        | <b>HCB4D225-G15</b>        | <b>HCB4N225-G15</b>                 | <b>HCB4M225-G15</b>                 |
| With M8 plug        | <b>HCB2C4-G15</b>          | <b>HCB3D2-G15</b>          | <b>HCB3N2-G15</b>                   | <b>HCB3M2-G15</b>                   |

#### Technical data

|                                |                         |                                 |                                 |                                 |
|--------------------------------|-------------------------|---------------------------------|---------------------------------|---------------------------------|
| Power Supply Rated voltage     | 3 ÷ 110 V AC/DC         | 0 ÷ 24 V AC/DC                  | 6 ÷ 30 V AC/DC                  | 6 ÷ 30 V AC/DC                  |
| Switching current              | 0.3 A                   | 1 A                             | 0.25 A                          | 0.25 A                          |
| Power Rating                   | 10 W                    | 10 W                            | 6 W                             | 6 W                             |
| On voltage drop                | < 3 V                   | //                              | < 1 V                           | < 1 V                           |
| Nominal operate point          | 20 ÷ 25 AT              | 20 ÷ 25 AT                      | 20Gauss (11 ÷ 22 Gauss)         | 20Gauss (11 ÷ 22 Gauss)         |
| ON-OFF differential            | 5 ÷ 10 AT               | 5 ÷ 10 AT                       | 4 ÷ 7 Gauss                     | 4 ÷ 7 Gauss                     |
| "ON" response time             | 0.5 ms                  | 0.5 ms                          | 0.8 µs                          | 0.8 µs                          |
| "OFF" response time            | 0.1 ms                  | 0.1 ms                          | 0.3 µs                          | 0.3 µs                          |
| Operating temperature          | - 10°C ÷ 70°C           | - 10°C ÷ 70°C                   | - 10°C ÷ 70°C                   | - 10°C ÷ 70°C                   |
| Operating frequency            | 500 Hz                  | 500 Hz                          | 200 KHz                         | 200 KHz                         |
| Life Time                      | 10 <sup>7</sup> imp     | 10 <sup>7</sup> imp             | 10 <sup>9</sup> imp             | 10 <sup>9</sup> imp             |
| Speed piston                   | 10 m/s                  | 10 m/s                          | 10 m/s                          | 10 m/s                          |
| Polarity - reversal protection | Yes                     | Yes                             | Yes                             | Yes                             |
| Protection class               | IP 67                   | IP 67                           | IP 67                           | IP 67                           |
| Sensor material                | PA ; AISI 303           | PA ; AISI 303                   | PA ; AISI 303                   | PA ; AISI 303                   |
| M8 plug material               | PA6 gold plated brass   | PA6 gold plated brass           | PA6 gold plated brass           | PA6 gold plated brass           |
| Cable type                     | PVC/PVC CEI2022 II O.R. | PVC/PVC CEI2022 II O.R.         | PVC/PVC CEI2022 II O.R.         | PVC/PVC CEI2022 II O.R.         |
| Cable jacket colour            | Grey                    | Grey                            | Grey                            | Grey                            |
| No.Conductors / Section        | 2x0.14mm <sup>2</sup>   | 3x0.14mm <sup>2</sup>           | 3x0.14mm <sup>2</sup>           | 3x0.14mm <sup>2</sup>           |
| Conductor colours              | Brown(+); Blue( - )     | Brown(+); Blue( - ); Black(OUT) | Brown(+); Blue( - ); Black(OUT) | Brown(+); Blue( - ); Black(OUT) |
| Cable length                   | 2.5m                    | 2.5m                            | 2.5m                            | 2.5m                            |

#### Packaging

|         |           |           |           |           |
|---------|-----------|-----------|-----------|-----------|
| Qty/Box | 1pc / Bag | 1pc / Bag | 1pc / Bag | 1pc / Bag |
|---------|-----------|-----------|-----------|-----------|

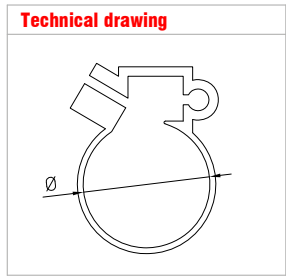
#### Other accessories options

|   |  |  |  |  |
|---|--|--|--|--|
| - |  |  |  |  |
|---|--|--|--|--|

#### Notes:

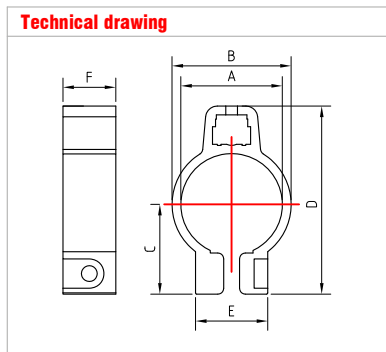
● **CYLINDER MOUNTING CLAMPS:**

● **HXF-G15:**



| Microcylinder mounting clamps | HXF-09        | HXF-11 | HXF-12 | HXF-13 | HXF-14 | HXF-16 | HXF-17 | HXF-18 | HXF-20 | HXF-21 | HXF-22 | HXF-24 | HXF-26 | HXF-27 | HXF-29 | HXF-30 | HXF-33 | HXF-36 | HXF-41 | HXF-45 | HXF-52 | HXF-65 |
|-------------------------------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Ø mm                          | Ø 9.3         | Ø 11.3 | Ø 12   | Ø 13.3 | Ø 14   | Ø 16   | Ø 17.3 | Ø 18   | Ø 20   | Ø 21.3 | Ø 22   | Ø 24   | Ø 26.3 | Ø 27   | Ø 29   | Ø 30   | Ø 33.6 | Ø 36   | Ø 41.6 | Ø 45   | Ø 52.4 | Ø 65.4 |
| Body materials                | PA ; AISI 303 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |

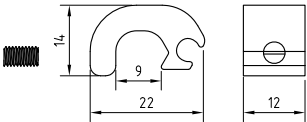
● **HSW-G15:**



| Microcylinder mounting clamps | HSW-08        | HSW-10 | HSW-12 | HSW-16 | HSW-20 | HSW-25 |
|-------------------------------|---------------|--------|--------|--------|--------|--------|
| For cylinder                  | ø 8           | ø 10   | ø 12   | ø 16   | ø 20   | ø 25   |
| A mm                          | ø 9.3         | ø 11.3 | ø 13.3 | ø 17.3 | ø 21.3 | ø 26.5 |
| B mm                          | 12.3          | 14.3   | 16.3   | 20.3   | 24.3   | 29.5   |
| C mm                          | 11.1          | 12.2   | 13.2   | 15.3   | 17.4   | 20     |
| D mm                          | 23.9          | 25.9   | 28     | 32.1   | 36.2   | 41.4   |
| E mm                          | 12.3          |        |        |        | 14     |        |
| F mm                          | 9             |        |        |        |        |        |
| Body materials                | PA ; AISI 303 |        |        |        |        |        |

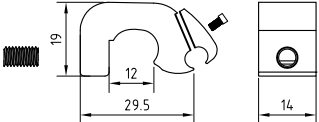
● **MOUNTING BRACKETS FOR CYLINDER:**

Technical drawing



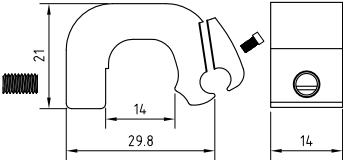
|                |                   |
|----------------|-------------------|
| For cylinder   | ø 5 ÷ 9mm         |
| Part Number    | <b>HST-10-G15</b> |
| Body materials |                   |

Technical drawing



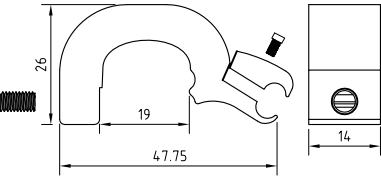
|              |                   |
|--------------|-------------------|
| For cylinder | ø 32 ÷ 40mm       |
| Part Number  | <b>HST-80-G15</b> |
|              |                   |

Technical drawing



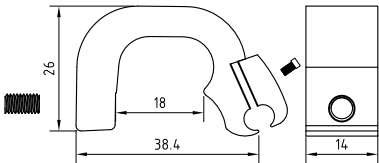
|              |                   |
|--------------|-------------------|
| For cylinder | ø 50 ÷ 63mm       |
| Part Number  | <b>HST-81-G15</b> |
|              |                   |

Technical drawing



|              |                   |
|--------------|-------------------|
| For cylinder | ø 82 ÷ 100mm      |
| Part Number  | <b>HST-82-G15</b> |
|              |                   |

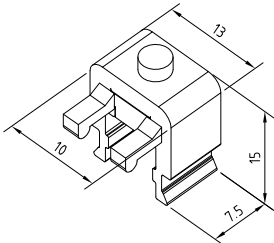
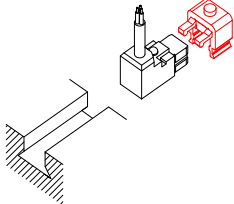
Technical drawing



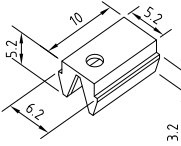
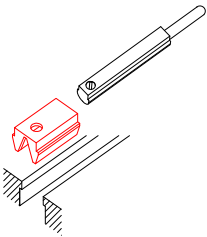
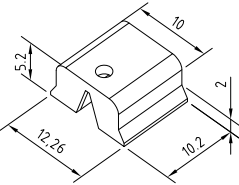
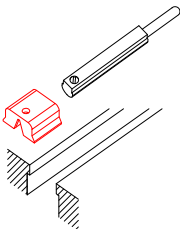
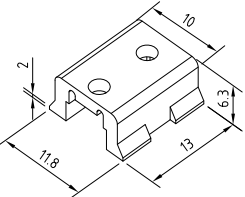
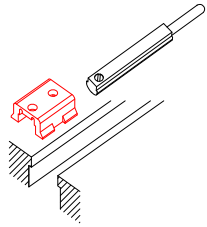
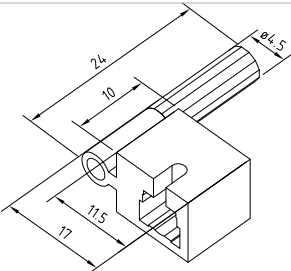
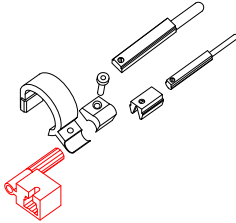
|              |                   |
|--------------|-------------------|
| For cylinder | ø125mm            |
| Part Number  | <b>HST-83-G15</b> |
|              |                   |

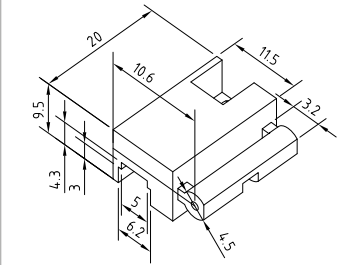
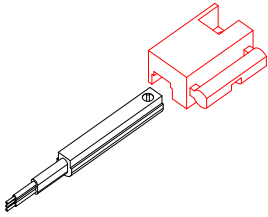
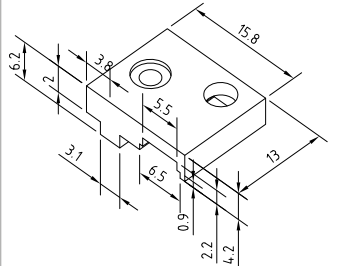
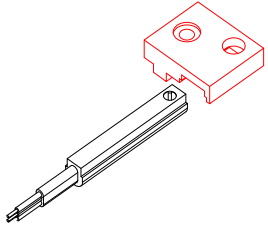
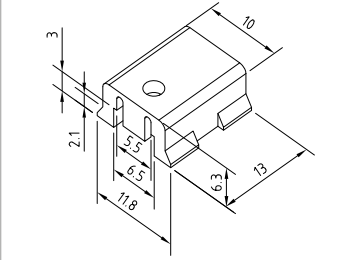
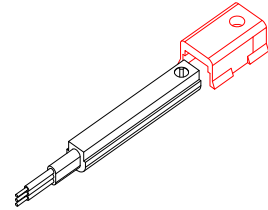
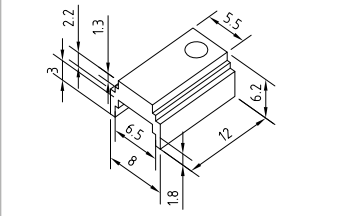
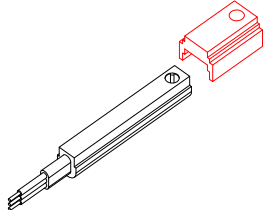


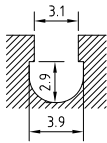
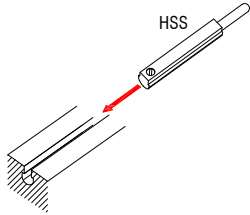
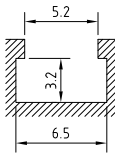
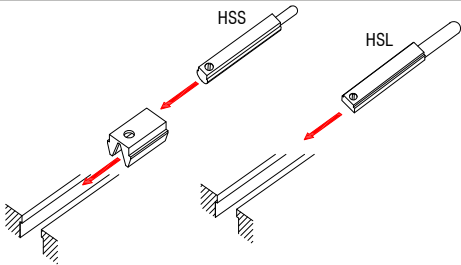
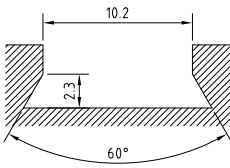
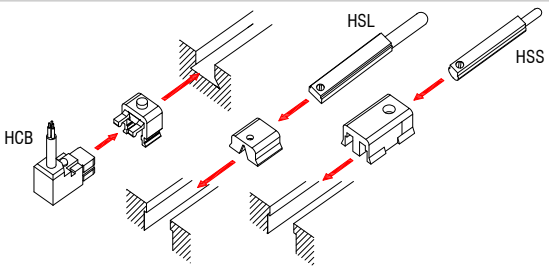
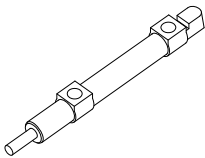
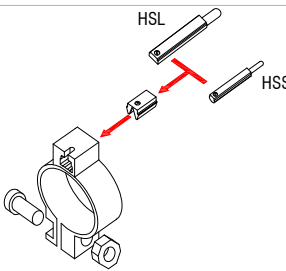
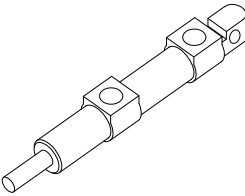
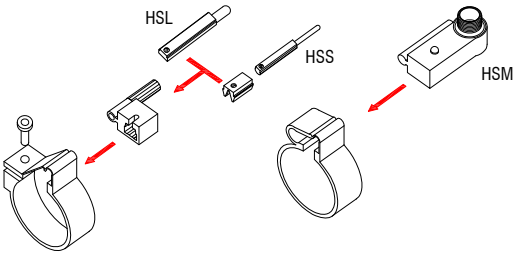
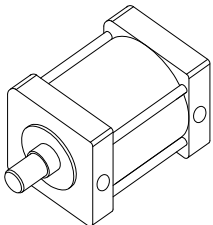
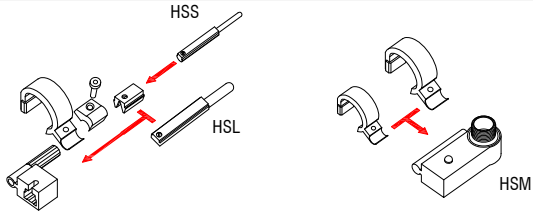
• **HK-CB-G15**

| Technical drawing                                                                 | Slot adapters material    | Application                                                                        | Packaging | Suitable sensors |
|-----------------------------------------------------------------------------------|---------------------------|------------------------------------------------------------------------------------|-----------|------------------|
|  | PA / 6005 A /<br>AISI 303 |  | 1PC/bag   | HCB              |

• **HK-SENS-G15**

| Technical drawing                                                                   | Slot adapters material | Application                                                                          | Packaging | Suitable sensors         |
|-------------------------------------------------------------------------------------|------------------------|--------------------------------------------------------------------------------------|-----------|--------------------------|
|    | PA                     |    | 1PC/bag   | HSN<br>HSS               |
|  | PA                     |    | 1PC/bag   | HSN<br>HSS               |
|  | PA                     |  | 1PC/bag   | HSC<br>HSL<br>HSN<br>HSS |
|  | PA                     |  | 1PC/bag   | HSC<br>HSL<br>HSN<br>HSS |

| Technical drawing                                                                  | Slot adapters material | Application                                                                         | Packaging | Suitable sensors |
|------------------------------------------------------------------------------------|------------------------|-------------------------------------------------------------------------------------|-----------|------------------|
|    | PA                     |    | 1PC/bag   | HSL              |
|    | PA                     |    | 1PC/bag   | HSL              |
|   | PA                     |   | 1PC/bag   | HSL              |
|  | PA                     |  | 1PC/bag   | HSL              |

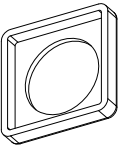
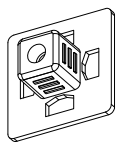
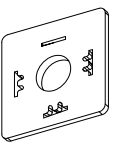
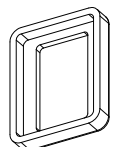
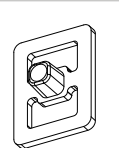
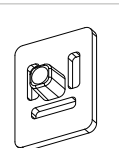
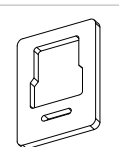
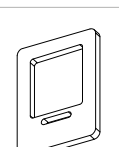
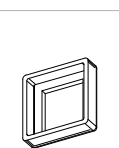
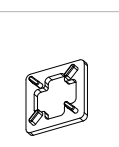
| Slots type                  |                                                                                     | Sensors type        |                     |                     |           |     | Applications type                                                                    |
|-----------------------------|-------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------|-----|--------------------------------------------------------------------------------------|
|                             |                                                                                     | HSS                 | HSL                 | HSA                 | HSM       | HCB |                                                                                      |
| <b>C slot</b>               |    | HSS                 | -                   | -                   | -         | -   |   |
| <b>T slot</b>               |    | HSS + HK-SENS       | HSL                 | HSA                 | -         | -   |    |
| <b>Dovetail slot</b>        |    | HSS + HK-SENS       | HSL + HK-SENS       | HSA + HK-SENS       | -         | HCB |    |
| <b>SW mounting clamps</b>   |  | HSS + HK-SENS + HSW | HSL + HK-SENS + HSW | HSA + HK-SENS + HSW | -         | -   |  |
| <b>XF mounting clamps</b>   |  | HSS + HK-SENS + HXF | HSL + HK-SENS + HXF | HSA + HK-SENS + HXF | HSM + HXF | HCB |  |
| <b>ST mounting brackets</b> |  | HSS + HK-SENS + HST | HSL + HK-SENS + HST | HSA + HK-SENS + HST | HSM + HST | HCB |  |

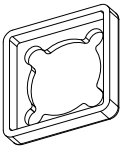
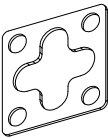
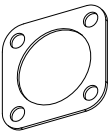
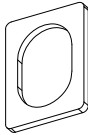
**Notes:**

[illegible]



## ACCESSORIES

| Technical drawing                                                                   | Gasket type | Part number      | Gasket material | Rated temperature range | Colour | Packaging  | Suitable connectors                        |
|-------------------------------------------------------------------------------------|-------------|------------------|-----------------|-------------------------|--------|------------|--------------------------------------------|
|    | Profiled    | <b>100013000</b> | NBR             | From -40°C to 90°C      | Black  | 50pcs/bag  | G1<br>G1C<br>CG1<br>CGB                    |
|                                                                                     |             | <b>10001400F</b> | Silicone        | From -40°C to 125°C     | White  |            |                                            |
|    | Integrated  | <b>10001400I</b> | NBR             | From -40°C to 90°C      | Black  | 50pcs/bag  | G1<br>G1C<br>CG1<br>CGB                    |
|                                                                                     |             | <b>10001400M</b> | Silicone        | From -40°C to 125°C     | White  |            |                                            |
|    | Flat        | <b>10001400A</b> | NBR             | From -40°C to 90°C      | Black  | 50pcs/bag  | G1<br>G1C<br>CG1<br>CGB<br>G4<br>TIMER-DIG |
|                                                                                     |             | <b>10001400G</b> | Silicone        | From -40°C to 125°C     | White  |            |                                            |
|    | Profiled    | <b>300013000</b> | NBR             | From -40°C to 90°C      | Black  | 50pcs/bag  | M1<br>CM1<br>M2<br>CM2                     |
|                                                                                     |             | <b>30001400H</b> | Silicone        | From -40°C to 125°C     | White  |            |                                            |
|    | Integrated  | <b>30001400I</b> | NBR             | From -40°C to 90°C      | Black  | 50pcs/bag  | CM1                                        |
|                                                                                     |             | <b>30001400J</b> | Silicone        | From -40°C to 125°C     | White  |            |                                            |
|   | Integrated  | <b>30001400M</b> | NBR             | From -40°C to 90°C      | Black  | 50pcs/bag  | CM2                                        |
|                                                                                     |             | <b>30001400K</b> | Silicone        | From -40°C to 125°C     | White  |            |                                            |
|  | Flat        | <b>30001400A</b> | NBR             | From -40°C to 90°C      | Black  | 50pcs/bag  | M1<br>CM1                                  |
|                                                                                     |             | <b>30001400G</b> | Silicone        | From -40°C to 125°C     | White  |            |                                            |
|  | Flat        | <b>30001400N</b> | NBR             | From -40°C to 90°C      | Black  | 50pcs/bag  | M2<br>CM2                                  |
|                                                                                     |             | <b>30001400P</b> | Silicone        | From -40°C to 125°C     | White  |            |                                            |
|  | Profiled    | <b>500013000</b> | NBR             | From -40°C to 90°C      | Black  | 100pcs/bag | P1<br>CP1<br>P2<br>CP2                     |
|                                                                                     |             | <b>50001400F</b> | Silicone        | From -40°C to 125°C     | White  |            |                                            |
|  | Integrated  | <b>50001400I</b> | NBR             | From -40°C to 90°C      | Black  | 100pcs/bag | CP1<br>CP2                                 |
|                                                                                     |             | <b>50001400M</b> | Silicone        | From -40°C to 125°C     | White  |            |                                            |

| Technical drawing                                                                   | Gasket type | Part number       | Gasket material | Rated temperature range | Colour | Packaging  | Suitable connectors                                             |
|-------------------------------------------------------------------------------------|-------------|-------------------|-----------------|-------------------------|--------|------------|-----------------------------------------------------------------|
|    | Flat        | <b>50001400A</b>  | NBR             | From -40°C to 90°C      | Black  | 100pcs/bag | P1<br>CP1<br>P2<br>CP2                                          |
|                                                                                     |             | <b>50001400G</b>  | Silicone        | From -40°C to 125°C     | White  |            |                                                                 |
|    | Profiled    | <b>100013000A</b> | NBR             | From -40°C to 90°C      | Black  | 50pcs/bag  | BG5                                                             |
|                                                                                     |             | <b>100013000D</b> | Silicone        | From -40°C to 125°C     | White  |            |                                                                 |
|    | Flat        | <b>10001400J</b>  | NBR             | From -40°C to 90°C      | Black  | 100pcs/bag | BG0<br>BG1<br>BG2<br>BG5<br>BG8<br>BG10<br>BG16<br>BG33<br>BG42 |
|                                                                                     |             | <b>10001400K</b>  | Silicone        | From -40°C to 125°C     | White  |            |                                                                 |
|    | Flat        | <b>10001400H</b>  | NBR             | From -40°C to 90°C      | Black  | 100pcs/bag | BG0<br>BG4                                                      |
|                                                                                     |             | <b>10001400N</b>  | Silicone        | From -40°C to 125°C     | White  |            |                                                                 |
|    | Flat        | <b>30001400E</b>  | NBR             | From -40°C to 90°C      | Black  | 140pcs/bag | BM1                                                             |
|                                                                                     |             | <b>30001400F</b>  | Silicone        | From -40°C to 125°C     | White  |            |                                                                 |
|  | Flat        | <b>50001400J</b>  | NBR             | From -40°C to 90°C      | Black  | 100pcs/bag | BP1                                                             |
|                                                                                     |             | <b>50001400K</b>  | Silicone        | From -40°C to 125°C     | White  |            |                                                                 |
|  | Flat        | <b>50001400E</b>  | NBR             | From -40°C to 90°C      | Black  | 100pcs/bag | BP2                                                             |
|                                                                                     |             | <b>50001400H</b>  | Silicone        | From -40°C to 125°C     | White  |            |                                                                 |



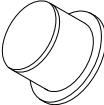
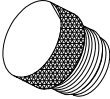
| Technical drawing                                                                   | Thread type | Length | Part number         | Screw material     | Packaging  | Suitable connectors                           |
|-------------------------------------------------------------------------------------|-------------|--------|---------------------|--------------------|------------|-----------------------------------------------|
|    | M3x0.5      | 42mm   | <b>10001500F</b>    | Iron + Zinc plated | 50pcs/bag  | G4                                            |
|                                                                                     |             |        | <b>10001500F-SS</b> | Iron AISI 304      |            |                                               |
|    | M3x0.5      | 35mm   | <b>10001500R</b>    | Iron + Zinc plated | 50pcs/bag  | CG5                                           |
|                                                                                     |             |        | <b>10001500R-SS</b> | Iron AISI 304      |            |                                               |
|    | M3x0.5      | 35.4mm | <b>10001500V</b>    | Iron + Zinc plated | 50pcs/bag  | G1C                                           |
|                                                                                     |             |        | <b>10001500V-SS</b> | Iron AISI 304      |            |                                               |
|    | M3x0.5      | 32.5mm | <b>100015000</b>    | Iron + Zinc plated | 50pcs/bag  | G1<br>M1<br>M2                                |
|                                                                                     |             |        | <b>100015000-SS</b> | Iron AISI 304      |            |                                               |
|    | M2.5x0.5    | 28mm   | <b>50001500A</b>    | Iron + Zinc plated | 100pcs/bag | P1                                            |
|                                                                                     |             |        | <b>50001500A-SS</b> | Iron AISI 304      |            |                                               |
|   | M3x0.5      | 28mm   | <b>70001500B</b>    | Iron + Zinc plated | 100pcs/bag | P2                                            |
|                                                                                     |             |        | <b>70001500B-SS</b> | Iron AISI 304      |            |                                               |
|  | M3x0.5      | 26mm   | <b>70001500C</b>    | Iron + Zinc plated | 50pcs/bag  | CM1B                                          |
|                                                                                     |             |        | <b>70001500C-SS</b> | Iron AISI 304      |            |                                               |
|  | M3x0.5      | 25mm   | <b>10001500P</b>    | Iron + Zinc plated | 50pcs/bag  | CG1<br>G1 Adaptor<br>CM1<br>M1 Adaptor<br>CM2 |
|                                                                                     |             |        | <b>10001500P-SS</b> | Iron AISI 304      |            |                                               |
|  | M3x0.5      | 22.5mm | <b>70001500P</b>    | Iron + Zinc plated | 50pcs/bag  | CGB<br>CP2<br>P2 Adaptor                      |
|                                                                                     |             |        | <b>70001500P-SS</b> | Iron AISI 304      |            |                                               |
|  | M2.5x0.5    | 22.5mm | <b>50001500P</b>    | Iron + Zinc plated | 50pcs/bag  | CP1<br>P1 Adaptor                             |
|                                                                                     |             |        | <b>50001500P-SS</b> | Iron AISI 304      |            |                                               |

| Technical drawing                                                                   | Thread type                  | Length | Part number          | Screw material     | Packaging  | Suitable connectors                               |
|-------------------------------------------------------------------------------------|------------------------------|--------|----------------------|--------------------|------------|---------------------------------------------------|
|    | ext.: M4x0.5<br>int.: M3x0.5 | 15.5mm | <b>30020500</b>      | Iron + Zinc plated | 120pcs/bag | BG8<br>BG10<br>BG16<br>BM1                        |
|                                                                                     |                              |        | <b>30020500-SS</b>   | Iron AISI 304      |            |                                                   |
|    | ext.: M4x0.5<br>int.: M3x0.5 | 14mm   | <b>30020500A</b>     | Iron + Zinc plated | 120pcs/bag | BG33<br>BG42                                      |
|                                                                                     |                              |        | <b>30020500A-SS</b>  | Iron AISI 304      |            |                                                   |
|    | M3x0.5                       | 10mm   | <b>100210001</b>     | Iron + Zinc plated | 200pcs/bag | BG1<br>BG5                                        |
|                                                                                     |                              |        | <b>100210001-SS</b>  | Iron AISI 304      |            |                                                   |
|    | M3x0.5                       | 8mm    | <b>700210001</b>     | Iron + Zinc plated | 100pcs/bag | BP2                                               |
|                                                                                     |                              |        | <b>700210001-SS</b>  | Iron AISI 304      |            |                                                   |
|    | M2.5x0.5                     | 8mm    | <b>500210001</b>     | Iron + Zinc plated | 100pcs/bag | BP1                                               |
|                                                                                     |                              |        | <b>500210001-SS</b>  | Iron AISI 304      |            |                                                   |
|  | M3x0.5                       | 7.3mm  | <b>100210003</b>     | Iron + Zinc plated | 100pcs/bag | BG0<br>BG4                                        |
|                                                                                     |                              |        | <b>100210003-SS</b>  | Iron AISI 304      |            |                                                   |
|  | M3x0.5                       | 5mm    | <b>300210004*</b>    | Iron + Zinc plated | 120pcs/bag | BM1                                               |
|                                                                                     |                              |        | <b>300210004-SS*</b> | Iron AISI 304      |            |                                                   |
|  | M3x0.5                       | 4.8mm  | <b>100210002*</b>    | Iron + Zinc plated | 100pcs/bag | BG1<br>BG5<br>BG8<br>BG10<br>BG16<br>BG33<br>BG42 |
|                                                                                     |                              |        | <b>100210002-SS*</b> | Iron AISI 304      |            |                                                   |

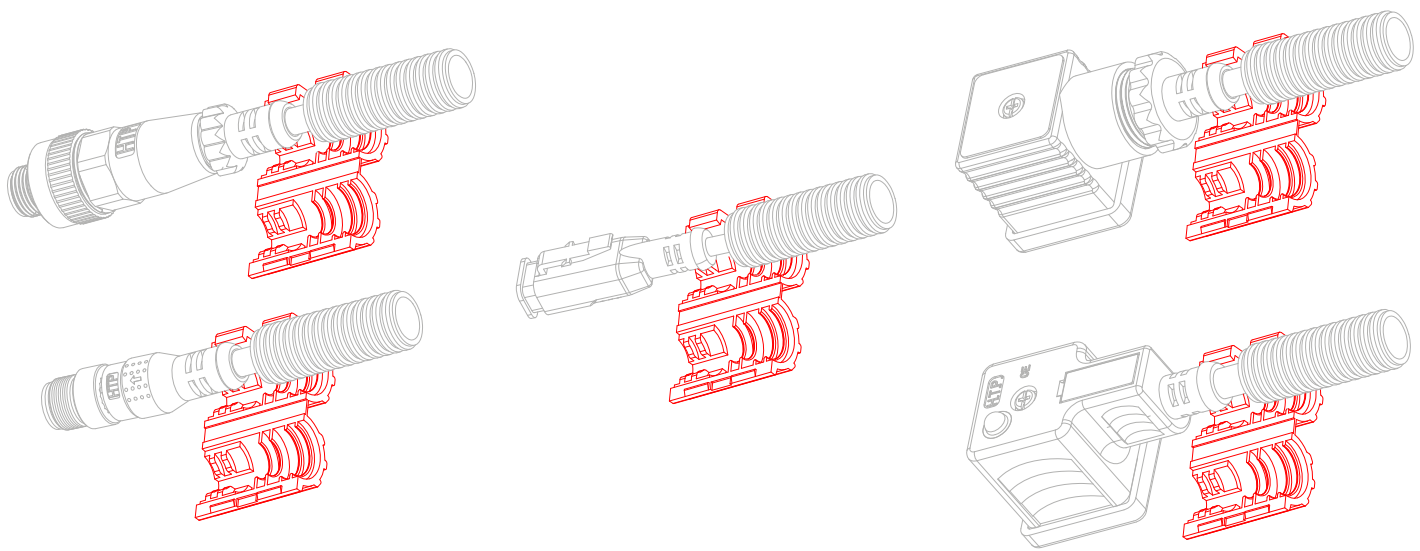
\* Screws for P.E.(EARTH) pins.

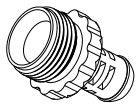
#### NOTES:

- All screws for DIN connectors are provided with different O-rings depending on the products where they are used.
- All O-rings are made in NBR - In case of other O-rings material is requested please contact us to verify the feasibility.
- All Gaskets can't be sold alone, they must be ordered with the connectors or bases corresponding.
- All Screws can't be sold alone, they must be ordered with the connectors or bases corresponding.

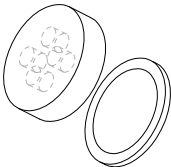
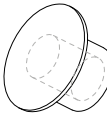
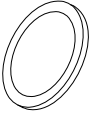
| Technical drawing                                                                   | Cap type                                         | Part number        | Gasket materials      | Colour      | Packaging | Suitable connectors                |
|-------------------------------------------------------------------------------------|--------------------------------------------------|--------------------|-----------------------|-------------|-----------|------------------------------------|
|    | Male<br>suitable for<br>Female connector         | <b>CAPS-12-M-P</b> | PA66                  | Black       | 50pcs/bag | M12 Female connectors<br>M12 boxes |
|    | Female SNAP-IN<br>suitable for<br>Male connector | <b>CAPS-12-F-P</b> | PA66                  | Transparent | 50pcs/bag | M12 Male connectors                |
|    | Male<br>suitable for<br>Female connector         | <b>CAPS-12-M-M</b> | Brass + Nickel plated | Metal       | 50pcs/bag | M12 Female connectors<br>M12 boxes |
|    | Female<br>suitable for<br>Male connector         | <b>CAPS-12-F-M</b> | Brass + Nickel plated | Metal       | 50pcs/bag | M12 Male connectors                |
|    | Male<br>suitable for<br>Female connector         | <b>CAPS-08-M-P</b> | PA66                  | Black       | 50pcs/bag | M8 Female connectors<br>M8 boxes   |
|  | Female SNAP-IN<br>suitable for<br>Male connector | <b>CAPS-08-F-P</b> | PA66                  | Transparent | 50pcs/bag | M8 Male connectors                 |
|  | Male<br>suitable for<br>Female connector         | <b>CAPS-08-M-M</b> | Brass + Nickel plated | Metal       | 50pcs/bag | M8 Female connectors<br>M8 boxes   |
|  | Female<br>suitable for<br>Male connector         | <b>CAPS-08-F-M</b> | Brass + Nickel plated | Metal       | 50pcs/bag | M8 Male connectors                 |
|  | Female                                           | <b>CAPS BG</b>     | PE                    | White       | 50pcs/bag | BG bases                           |

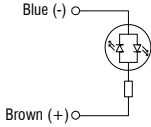
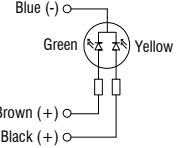
| Technical drawing                                                                 | Int. conduits diameter  | Ext. conduits diameter | Part number | Conduits clip material | Packaging | Suitable connectors                                                                                                                                                                                          |
|-----------------------------------------------------------------------------------|-------------------------|------------------------|-------------|------------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | ø6.2mm<br>and<br>ø9.6mm | ø10mm<br>and<br>ø13mm  | <b>ACC1</b> | PA66                   | 50pcs/bag | Din connectors Field attachable*<br>Din connectors with moulded cable<br>Circular M12 connectors Field attachable*<br>Circular M12 connectors with moulded cable<br>Automotive connectors with moulded cable |



| Technical drawing                                                                   | Gland thread type | Length | Part number      | Cable gland | Gland material | Gland colour | Packaging | Suitable connectors                                                      |
|-------------------------------------------------------------------------------------|-------------------|--------|------------------|-------------|----------------|--------------|-----------|--------------------------------------------------------------------------|
|  | PG11              | 29.4mm | <b>ACSC-PG11</b> | 6.5-7mm     | PA66           | Black        | 50pcs/bag | G1<br>G1C<br>G4<br>12ML<br>12FL<br>12MU<br>12FU                          |
|  | PG9               | 29mm   | <b>ACSC-PG9</b>  | 4-7mm       | PA66           | Black        | 50pcs/bag | M1<br>M2                                                                 |
|  | PG7               | 29mm   | <b>ACSC-PG7</b>  | 3.5-6mm     | PA66           | Black        | 50pcs/bag | P1<br>P2<br>12FC<br>12MC<br>12FB<br>12MB<br>12FZ<br>12MZ<br>12FT<br>12MT |

\* To connect the conduits clip, all field attachable connectors must have the gland with the exit cable.

|                                                                                     |                                                                                  |                     |             |       |           |      |                                                 |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|---------------------|-------------|-------|-----------|------|-------------------------------------------------|
|    | Round seal with 2 open holes ø5.5mm                                              | <b>1001000C</b>     | PVC         | Black | 50pcs/bag | PG11 | G1<br>G1C<br>G4<br>12ML<br>12FL<br>12MU<br>12FU |
|    | Round seal with 2 open holes ø2mm                                                | <b>10010000C-2H</b> | PVC<br>PA66 | Black | 50pcs/bag | PG11 | G1<br>G1C<br>G4<br>12ML<br>12FL<br>12MU<br>12FU |
|    | Round seal with 4 closed holes + plastic washer<br>easy to break with conductors | <b>10010000F</b>    | NBR         | Black | 50pcs/bag | PG11 | G1<br>G1C<br>G4<br>12ML<br>12FL<br>12MU<br>12FU |
|    | Seal reduction with 1 closed hole<br>easy to break with conductors               | <b>10010000A-SI</b> | PVC         | Black | 50pcs/bag | PG11 | G1<br>G1C<br>G4<br>12ML<br>12FL<br>12MU<br>12FU |
|   | Seal reduction with 1 closed hole<br>easy to break with conductors               | <b>10010000D</b>    | PVC         | Black | 50pcs/bag | PG7  | P1<br>P2<br>P3                                  |
|  | Metal Washer                                                                     | <b>10010000E</b>    | Iron        | -     | 50pcs/bag | PG11 | G1<br>G1C<br>G4<br>12ML<br>12FL<br>12MU<br>12FU |

| Technical drawing                                                                   | Technical scheme                                                                    | Product type                            | Part number    | LED Colour              | Packaging | Suitable poles numbers | Suitable connectors                             |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------|----------------|-------------------------|-----------|------------------------|-------------------------------------------------|
|  |  | Bipolar led + resistance with n°2 wires | <b>ELBO 01</b> | Red                     | 50pcs/bag | 2 poles connected      | G1<br>G1C<br>M1 12FT<br>M2 12MT<br>12MZ<br>12FZ |
|  |  | Bicolour led + resistances              | <b>ELBO 02</b> | n°1 Yellow<br>n°2 Green | 50pcs/bag | 3 poles connected      | G1<br>G1C<br>12MZ<br>12FZ<br>12MT<br>12FT       |



## CABLES LIST



| Code | Material | Type of cable                                                                                      | Colour       | Section | No.core | Cable ø<br>mm ±0.3 | Temperature range °C | Form A<br> | Form A - B | Form C |
|------|----------|----------------------------------------------------------------------------------------------------|--------------|---------|---------|--------------------|----------------------|-----------------------------------------------------------------------------------------------|------------|--------|
| 01   | PVC/PVC  | IEC332-1 H03VVF                                                                                    | Black        | 0.50mm² | 3       | ø5mm               | -20°C / +80°C        |                                                                                               | ●          | ●      |
| A1   | PVC/PVC  | IEC332-1 H03VVF                                                                                    | Black        | 0.50mm² | 2       | ø5mm               | -20°C / +80°C        |                                                                                               | ●          | ●      |
| B1   | PVC/PVC  | IEC332-1 H03VVF                                                                                    | Black        | 0.50mm² | 4       | ø6mm               | -20°C / +80°C        |                                                                                               | ●          | ●      |
| 02   | PVC/PVC  | IEC332-1 H05VVF                                                                                    | Black        | 0.75mm² | 3       | ø6.7mm             | -20°C / +80°C        |                                                                                               | ●          |        |
| A2   | PVC/PVC  | IEC332-1 H05VVF                                                                                    | Black        | 0.75mm² | 2       | ø6mm               | -20°C / +80°C        |                                                                                               | ●          |        |
| B2   | PVC/PVC  | IEC332-1 H05VVF                                                                                    | Black        | 0.75mm² | 4       | ø7mm               | -20°C / +80°C        |                                                                                               | ●          |        |
| C2   | PVC/PVC  | IEC332-1 H05VVF                                                                                    | Black        | 0.75mm² | 5       | ø8.3mm             | -20°C / +80°C        |                                                                                               | ●          |        |
| 03   | PVC/PVC  | CEI2022 II F.R.O.R.                                                                                | Grey RAL7032 | 0.75mm² | 3       | ø5.5mm             | -20°C / +80°C        |                                                                                               | ●          |        |
| A3   | PVC/PVC  | CEI2022 II F.R.O.R.                                                                                | Grey RAL7032 | 0.75mm² | 2       | ø6mm               | -20°C / +80°C        |                                                                                               | ●          |        |
| 04   | PVC/PVC  | CEI2022 II F.R.O.R.                                                                                | Grey RAL7032 | 0.50mm² | 3       | ø5mm               | -20°C / +80°C        |                                                                                               | ●          | ●      |
| A4   | PVC/PVC  | CEI2022 II F.R.O.R.                                                                                | Grey RAL7032 | 0.50mm² | 2       | ø5mm               | -20°C / +80°C        |                                                                                               | ●          | ●      |
| B4   | PVC/PVC  | CEI2022 II F.R.O.R.                                                                                | Grey RAL7032 | 0.50mm² | 4       | ø6mm               | -20°C / +80°C        |                                                                                               | ●          | ●      |
| 05   | PVC/PVC  | CEI2022 II F.R.O.R.                                                                                | Grey RAL7032 | 0.75mm² | 4       | ø7mm               | -20°C / +80°C        |                                                                                               | ●          |        |
| C5   | PVC/PVC  | CEI2022 II F.R.O.R.                                                                                | Grey RAL7032 | 0.75mm² | 5       | ø8.3mm             | -20°C / +80°C        |                                                                                               | ●          |        |
| 06   | PVC/PVC  | CEI2022 II F.R.O.R.                                                                                | Grey RAL7032 | 1mm²    | 3       | ø6.7mm             | -20°C / +80°C        |                                                                                               | ●          |        |
| A6*  | PVC/PVC  | CEI2022 II F.R.O.R.                                                                                | Grey RAL7032 | 1mm²    | 2       | ø6.5mm             | -20°C / +80°C        |                                                                                               | ●          |        |
| B6*  | PVC/PVC  | CEI2022 II F.R.O.R.                                                                                | Grey RAL7032 | 1mm²    | 4       | ø7.2mm             | -20°C / +80°C        |                                                                                               | ●          |        |
| 07*  | PVC/PVC  | CEI2022 II F.R.O.R. SHIELDED                                                                       | Grey RAL7032 | 1mm²    | 3       | ø7.2mm             | -20°C / +80°C        |                                                                                               | ●          |        |
| A7*  | PVC/PVC  | CEI2022 II F.R.O.R. SHIELDED                                                                       | Grey RAL7032 | 1mm²    | 2       | ø6.7mm             | -20°C / +80°C        |                                                                                               | ●          |        |
| B7*  | PVC/PVC  | CEI2022 II F.R.O.R. SHIELDED                                                                       | Grey RAL7032 | 1mm²    | 4       | ø8.3mm             | -20°C / +80°C        |                                                                                               | ●          |        |
| 08*  | PUR/PVC  |                                                                                                    | Black        | 0.50mm² | 3       | ø5mm               | -40°C / +80°C        |                                                                                               | ●          | ●      |
| A8*  | PUR/PVC  |                                                                                                    | Black        | 0.50mm² | 2       | ø5mm               | -40°C / +80°C        |                                                                                               | ●          | ●      |
| B8*  | PUR/PVC  |                                                                                                    | Black        | 0.50mm² | 4       | ø6mm               | -40°C / +80°C        |                                                                                               | ●          | ●      |
| C8*  | PUR/PVC  |                                                                                                    | Black        | 0.50mm² | 5       | ø6.5mm             | -40°C / +80°C        |                                                                                               | ●          |        |
| 09*  | PUR/PVC  |                                                                                                    | Black        | 0.75mm² | 3       | ø6mm               | -40°C / +80°C        |                                                                                               | ●          |        |
| A9   | PUR/PVC  |                                                                                                    | Black        | 0.75mm² | 2       | ø5.2mm             | -40°C / +80°C        |                                                                                               | ●          |        |
| B9*  | PUR/PVC  |                                                                                                    | Black        | 0.75mm² | 4       | ø7.2mm             | -40°C / +80°C        |                                                                                               | ●          |        |
| 10*  | PUR/PUR  | Li-YY11Y                                                                                           | Black        | 0.50mm² | 3       | ø5mm               | -40°C / +80°C        |                                                                                               | ●          | ●      |
| AA*  | PUR/PUR  | Li-YY11Y                                                                                           | Black        | 0.50mm² | 2       | ø5mm               | -40°C / +80°C        |                                                                                               | ●          | ●      |
| AB*  | PUR/PUR  | Li-YY11Y                                                                                           | Black        | 0.50mm² | 4       | ø6.7mm             | -40°C / +80°C        |                                                                                               | ●          | ●      |
| 11*  | PUR/PUR  | Li-YY11Y                                                                                           | Black        | 0.75mm² | 3       | ø6mm               | -40°C / +80°C        |                                                                                               | ●          |        |
| BA*  | PUR/PUR  | Li-YY11Y                                                                                           | Black        | 0.75mm² | 2       | ø6.5mm             | -40°C / +80°C        |                                                                                               | ●          |        |
| BB*  | PUR/PUR  | Li-YY11Y                                                                                           | Black        | 0.75mm² | 4       | ø7mm               | -40°C / +80°C        |                                                                                               | ●          |        |
| 13*  | PVC/PVC  | IEC332-1 H05VVF                                                                                    | Black        | 1mm²    | 2       | ø6mm               | -20°C / +80°C        |                                                                                               | ●          |        |
| 14*  | PVC/PVC  | CEI2022 II F.R.O.R.                                                                                | Black        | 1mm²    | 3       | ø6.7mm             | -20°C / +80°C        |                                                                                               | ●          |        |
| 16   | PVC/PVC  |  UL style 21179 | Black        | 18 AWG  | 3       | ø5.8mm             | -20°C / +105°C       | ●                                                                                             | ●          |        |
| 18   | PVC/PVC  |  UL style 21179 | Black        | 18 AWG  | 4       | ø6.5mm             | -20°C / +105°C       | ●                                                                                             | ●          |        |

\* = Cables with minimum quantity required.

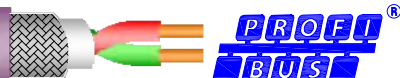


| Code     | Material | Type of cable                                                                                    | Colour       | Section             | No.core | Cable ø<br>mm ±0.3 | Temperature range °C | M8 | M12 | M9 | M8<br> | M12<br> |
|----------|----------|--------------------------------------------------------------------------------------------------|--------------|---------------------|---------|--------------------|----------------------|----|-----|----|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| <b>K</b> | PVC/PVC  | CEI2022                                                                                          | Black        | 0.14mm²             | 3 *     | ø2.6mm             | -20°C / +80°C        | ●  | ●   |    |                                                                                           |                                                                                            |
|          |          |                                                                                                  |              |                     | 6       | ø4.9mm             | -20°C / +80°C        | ●  |     |    |                                                                                           |                                                                                            |
|          |          |                                                                                                  |              |                     | 8       | ø4.9mm             | -20°C / +80°C        | ●  |     |    |                                                                                           |                                                                                            |
|          |          |                                                                                                  |              |                     | 12      | ø6.5mm             | -20°C / +80°C        |    | ●   |    |                                                                                           |                                                                                            |
| <b>A</b> | PVC/PVC  | CEI2022                                                                                          | Black        | 0.25mm²             | 2 *     | ø3.5mm             | -20°C / +80°C        | ●  | ●   |    |                                                                                           |                                                                                            |
|          |          |                                                                                                  |              |                     | 3       | ø 4mm              | -20°C / +80°C        | ●  | ●   |    |                                                                                           |                                                                                            |
|          |          |                                                                                                  |              |                     | 4       | ø 4.4mm            | -20°C / +80°C        | ●  | ●   |    |                                                                                           |                                                                                            |
|          |          |                                                                                                  |              |                     | 5       | ø 4.7mm            | -20°C / +80°C        |    | ●   |    |                                                                                           |                                                                                            |
|          |          |                                                                                                  |              |                     | 8       | ø 6mm              | -20°C / +80°C        |    | ●   |    |                                                                                           |                                                                                            |
| <b>S</b> | PVC/PVC  |  ULstyle21179   | Black        | AWG24<br>(0.25mm²)  | 2 *     | n.a.               | -20°C / +105°C       | ●  | ●   |    |                                                                                           |                                                                                            |
|          |          |                                                                                                  |              |                     | 3       | n.a.               | -20°C / +105°C       | ●  | ●   |    | ●                                                                                         | ●                                                                                          |
|          |          |                                                                                                  |              |                     | 4       | ø 4.3mm            | -20°C / +105°C       | ●  | ●   |    | ●                                                                                         | ●                                                                                          |
|          |          |                                                                                                  |              |                     | 5       | ø 5mm              | -20°C / +105°C       | ●  | ●   |    |                                                                                           |                                                                                            |
|          |          |                                                                                                  |              |                     | 8       | n.a.               | -20°C / +105°C       | ●  | ●   |    |                                                                                           |                                                                                            |
| <b>B</b> | PVC/PVC  | CEI2022                                                                                          | Black        | 0.34mm²             | 2 *     | ø 4.8mm            | -20°C / +80°C        | ●  | ●   |    |                                                                                           |                                                                                            |
|          |          |                                                                                                  |              |                     | 3 *     | ø 4.8mm            | -20°C / +80°C        | ●  | ●   |    |                                                                                           |                                                                                            |
|          |          |                                                                                                  |              |                     | 4       | ø 5.2mm            | -20°C / +80°C        | ●  | ●   |    |                                                                                           |                                                                                            |
|          |          |                                                                                                  |              |                     | 5 *     | ø 5.5mm            | -20°C / +80°C        |    | ●   |    |                                                                                           |                                                                                            |
|          |          |                                                                                                  |              |                     | 8       | ø 6.5mm            | -20°C / +80°C        |    | ●   |    |                                                                                           |                                                                                            |
| <b>I</b> | PVC/PVC  |  ULstyle 21179 | Black        | AWG 22<br>(0.34mm²) | 2 *     | n.a.               | -20°C / +105°C       | ●  | ●   |    |                                                                                           |                                                                                            |
|          |          |                                                                                                  |              |                     | 3 *     | ø4.8mm             | -20°C / +105°C       | ●  | ●   |    | ●                                                                                         | ●                                                                                          |
|          |          |                                                                                                  |              |                     | 4 *     | ø5.2mm             | -20°C / +105°C       | ●  | ●   |    | ●                                                                                         | ●                                                                                          |
|          |          |                                                                                                  |              |                     | 5 *     | ø5.8mm             | -20°C / +105°C       |    | ●   | ●  |                                                                                           | ●                                                                                          |
|          |          |                                                                                                  |              |                     | 8 *     | ø6.5mm             | -20°C / +105°C       |    | ●   |    |                                                                                           | ●                                                                                          |
| <b>N</b> | PVC/PVC  | CEI2022                                                                                          | Grey RAL7032 | 0.25mm²             | 2       | ø3.5mm             | -20°C / +80°C        | ●  | ●   |    |                                                                                           |                                                                                            |
|          |          |                                                                                                  |              |                     | 3       | ø 4mm              | -20°C / +80°C        | ●  | ●   |    |                                                                                           |                                                                                            |
|          |          |                                                                                                  |              |                     | 4       | ø 4.4mm            | -20°C / +80°C        | ●  | ●   |    |                                                                                           |                                                                                            |
|          |          |                                                                                                  |              |                     | 5 *     | ø 4.7mm            | -20°C / +80°C        |    | ●   |    |                                                                                           |                                                                                            |
|          |          |                                                                                                  |              |                     | 8 *     | ø 6mm              | -20°C / +80°C        |    | ●   |    |                                                                                           |                                                                                            |
| <b>L</b> | PVC/PVC  | CEI2022                                                                                          | Grey RAL7032 | 0.34mm²             | 2 *     | ø 4.8mm            | -20°C / +80°C        | ●  | ●   |    |                                                                                           |                                                                                            |
|          |          |                                                                                                  |              |                     | 3       | ø 4.8mm            | -20°C / +80°C        | ●  | ●   |    |                                                                                           |                                                                                            |
|          |          |                                                                                                  |              |                     | 4       | ø 5.2mm            | -20°C / +80°C        | ●  | ●   |    |                                                                                           |                                                                                            |
|          |          |                                                                                                  |              |                     | 5       | ø 5.5mm            | -20°C / +80°C        |    | ●   |    |                                                                                           |                                                                                            |
|          |          |                                                                                                  |              |                     | 8 *     | ø 6.5mm            | -20°C / +80°C        |    | ●   |    |                                                                                           |                                                                                            |
| <b>H</b> | PUR/PUR  |                                                                                                  | Black        | 0.14mm²             | 3 *     | ø2.6mm             | -40°C / +80°C        | ●  | ●   |    |                                                                                           |                                                                                            |
|          |          |                                                                                                  |              |                     | 6       | ø4.9mm             | -40°C / +80°C        | ●  |     |    |                                                                                           |                                                                                            |
|          |          |                                                                                                  |              |                     | 8       | ø4.9mm             | -40°C / +80°C        | ●  |     |    |                                                                                           |                                                                                            |
|          |          |                                                                                                  |              |                     | 12 *    | ø6mm               | -40°C / +80°C        |    | ●   |    |                                                                                           |                                                                                            |

| Code           | Material | Type of cable                                                                                                                                                                                  | Colour | Section             | No.core | Cable ø<br>mm ±0.3 | Temperature range °C | M8 | M12 | M9 | M8<br> | M12<br> |
|----------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------------------|---------|--------------------|----------------------|----|-----|----|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| <b>C</b>       | PUR/PUR  |                                                                                                                                                                                                | Black  | 0.25mm²             | 2 *     | ø 3.5mm            | -40°C / +80°C        | ●  | ●   |    |                                                                                           |                                                                                            |
|                |          |                                                                                                                                                                                                |        |                     | 3 *     | ø 4mm              | -40°C / +80°C        | ●  | ●   |    |                                                                                           |                                                                                            |
|                |          |                                                                                                                                                                                                |        |                     | 4 *     | ø 4.4mm            | -40°C / +80°C        | ●  | ●   |    |                                                                                           |                                                                                            |
|                |          |                                                                                                                                                                                                |        |                     | 5 *     | ø 4.7mm            | -40°C / +80°C        |    | ●   |    |                                                                                           |                                                                                            |
|                |          |                                                                                                                                                                                                |        |                     | 8 *     | ø 6mm              | -40°C / +80°C        |    | ●   |    |                                                                                           |                                                                                            |
| <b>C-K6-IS</b> | PUR/TPO  |  ULstyle 21576               | Black  | 24AWG<br>(0.25mm²)  | 3       | ø4.1mm             | -40°C / +80°C        | ●  | ●   |    | ●                                                                                         |                                                                                            |
|                |          |                                                                                                                                                                                                |        |                     | 4       | ø4.7mm             | -40°C / +80°C        | ●  | ●   |    | ●                                                                                         |                                                                                            |
|                |          |                                                                                                                                                                                                |        |                     | 5       | ø5.1mm             | -40°C / +80°C        |    | ●   |    |                                                                                           |                                                                                            |
|                |          |                                                                                                                                                                                                |        |                     | 8       | ø6.3mm             | -40°C / +80°C        |    | ●   |    |                                                                                           | ●                                                                                          |
| <b>D</b>       | PUR/PUR  |                                                                                                                                                                                                | Black  | 0.34mm²             | 2 *     | ø 4.8mm            | -40°C / +80°C        |    |     |    |                                                                                           |                                                                                            |
|                |          |                                                                                                                                                                                                |        |                     | 3 *     | ø 4.8mm            | -40°C / +80°C        | ●  | ●   |    |                                                                                           |                                                                                            |
|                |          |                                                                                                                                                                                                |        |                     | 4 *     | ø 5.2mm            | -40°C / +80°C        |    | ●   |    |                                                                                           |                                                                                            |
|                |          |                                                                                                                                                                                                |        |                     | 5 *     | ø 5.5mm            | -40°C / +80°C        |    | ●   |    |                                                                                           |                                                                                            |
|                |          |                                                                                                                                                                                                |        |                     | 8 *     | ø 6.5mm            | -40°C / +80°C        |    | ●   |    |                                                                                           |                                                                                            |
| <b>D-K6-IS</b> | PUR/TPO  |  ULstyle 21576               | Black  | AWG 22<br>(0.34mm²) | 3       | ø4.6mm             | -40°C / +80°C        | ●  | ●   |    | ●                                                                                         |                                                                                            |
|                |          |                                                                                                                                                                                                |        |                     | 4       | ø4.8mm             | -40°C / +80°C        | ●  | ●   |    | ●                                                                                         | ●                                                                                          |
|                |          |                                                                                                                                                                                                |        |                     | 5       | ø5.3mm             | -40°C / +80°C        |    | ●   |    |                                                                                           | ●                                                                                          |
| <b>J</b>       | PVC/PVC  | CEI2022 SHIELDED                                                                                             | Black  | 0.25mm²             | 2 *     | n.a.               | -20°C / +80°C        | ●  | ●   |    |                                                                                           |                                                                                            |
|                |          |                                                                                                                                                                                                |        |                     | 3 *     | n.a.               | -20°C / +80°C        | ●  | ●   |    |                                                                                           |                                                                                            |
|                |          |                                                                                                                                                                                                |        |                     | 4 *     | ø4.8mm             | -20°C / +80°C        | ●  | ●   |    |                                                                                           |                                                                                            |
|                |          |                                                                                                                                                                                                |        |                     | 5 *     | ø5.2mm             | -20°C / +80°C        |    | ●   | ●  |                                                                                           |                                                                                            |
|                |          |                                                                                                                                                                                                |        |                     | 8 *     | ø6.5mm             | -20°C / +80°C        |    | ●   |    |                                                                                           |                                                                                            |
| <b>P</b>       | PVC/PVC  |  ULstyle 21576 SHIELDED  | Black  | AWG 24<br>(0.25mm²) | 2 *     | n.a.               | -20°C / +105°C       | ●  | ●   |    |                                                                                           |                                                                                            |
|                |          |                                                                                                                                                                                                |        |                     | 3 *     | n.a.               | -20°C / +105°C       | ●  | ●   |    |                                                                                           |                                                                                            |
|                |          |                                                                                                                                                                                                |        |                     | 4 *     | n.a.               | -20°C / +105°C       | ●  | ●   |    |                                                                                           |                                                                                            |
|                |          |                                                                                                                                                                                                |        |                     | 5 *     | n.a.               | -20°C / +105°C       | ●  | ●   |    |                                                                                           |                                                                                            |
|                |          |                                                                                                                                                                                                |        |                     | 8 *     | n.a.               | -20°C / +105°C       |    | ●   |    |                                                                                           | ●                                                                                          |
| <b>F</b>       | PVC/PVC  | CEI2022 SHIELDED                                                                                            | Black  | 0.34mm²             | 2 *     | n.a.               | -20°C / +80°C        | ●  | ●   |    |                                                                                           |                                                                                            |
|                |          |                                                                                                                                                                                                |        |                     | 3 *     | n.a.               | -20°C / +80°C        | ●  | ●   |    |                                                                                           |                                                                                            |
|                |          |                                                                                                                                                                                                |        |                     | 4 *     | ø5.5mm             | -20°C / +80°C        | ●  | ●   |    |                                                                                           |                                                                                            |
|                |          |                                                                                                                                                                                                |        |                     | 5 *     | ø6mm               | -20°C / +80°C        |    | ●   |    |                                                                                           |                                                                                            |
|                |          |                                                                                                                                                                                                |        |                     | 8 *     | n.a.               | -20°C / +80°C        |    | ●   |    |                                                                                           |                                                                                            |
| <b>3</b>       | PVC/PVC  |  ULstyle 21576 SHIELDED  | Black  | AWG 22<br>(0.34mm²) | 2 *     | n.a.               | -20°C / +105°C       | ●  | ●   |    |                                                                                           |                                                                                            |
|                |          |                                                                                                                                                                                                |        |                     | 3 *     | n.a.               | -20°C / +105°C       | ●  | ●   |    |                                                                                           | ●                                                                                          |
|                |          |                                                                                                                                                                                                |        |                     | 4 *     | n.a.               | -20°C / +105°C       | ●  | ●   |    |                                                                                           | ●                                                                                          |
|                |          |                                                                                                                                                                                                |        |                     | 5 *     | n.a.               | -20°C / +105°C       |    | ●   |    |                                                                                           | ●                                                                                          |
|                |          |                                                                                                                                                                                                |        |                     | 8 *     | n.a.               | -20°C / +105°C       |    | ●   |    |                                                                                           |                                                                                            |

| Code    | Material | Type of cable                                                                                                                                                                                                                                                                      | Colour       | Section             | No.core | Cable ø<br>mm ±0.3 | Temperature range °C | M8 | M12 | M9 | M8<br> | M12<br> |
|---------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------------|---------|--------------------|----------------------|----|-----|----|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Q       | PVC/PVC  | CEI2022 SHIELDED                                                                                                                                                                                  | Grey RAL7032 | 0.25mm²             | 2 *     | n.a.               | -20°C / +80°C        | ●  | ●   |    |                                                                                           |                                                                                            |
|         |          |                                                                                                                                                                                                                                                                                    |              |                     | 3 *     | n.a.               | -20°C / +80°C        | ●  | ●   |    |                                                                                           |                                                                                            |
|         |          |                                                                                                                                                                                                                                                                                    |              |                     | 4       | ø4.8mm             | -20°C / +80°C        | ●  | ●   |    |                                                                                           |                                                                                            |
|         |          |                                                                                                                                                                                                                                                                                    |              |                     | 5 *     | ø5.2mm             | -20°C / +80°C        |    | ●   | ●  |                                                                                           |                                                                                            |
|         |          |                                                                                                                                                                                                                                                                                    |              |                     | 8 *     | n.a.               | -20°C / +80°C        |    | ●   |    |                                                                                           |                                                                                            |
| R       | PVC/PVC  | CEI2022 SHIELDED                                                                                                                                                                                  | Grey RAL7032 | 0.34mm²             | 2 *     | n.a.               | -20°C / +80°C        | ●  | ●   |    |                                                                                           |                                                                                            |
|         |          |                                                                                                                                                                                                                                                                                    |              |                     | 3 *     | n.a.               | -20°C / +80°C        | ●  | ●   |    |                                                                                           |                                                                                            |
|         |          |                                                                                                                                                                                                                                                                                    |              |                     | 4 *     | ø5.5mm             | -20°C / +80°C        | ●  | ●   |    |                                                                                           |                                                                                            |
|         |          |                                                                                                                                                                                                                                                                                    |              |                     | 5 *     | ø6mm               | -20°C / +80°C        |    | ●   | ●  |                                                                                           |                                                                                            |
|         |          |                                                                                                                                                                                                                                                                                    |              |                     | 8 *     | n.a.               | -20°C / +80°C        |    | ●   |    |                                                                                           |                                                                                            |
| U       | PUR/PUR  | SHIELDED                                                                                                                                                                                          | Black        | 0.25mm²             | 2 *     | n.a.               | -40°C / +80°C        | ●  | ●   |    |                                                                                           |                                                                                            |
|         |          |                                                                                                                                                                                                                                                                                    |              |                     | 3 *     | ø4.4mm             | -40°C / +80°C        | ●  | ●   |    |                                                                                           |                                                                                            |
|         |          |                                                                                                                                                                                                                                                                                    |              |                     | 4       | ø4.8mm             | -40°C / +80°C        | ●  | ●   |    |                                                                                           |                                                                                            |
|         |          |                                                                                                                                                                                                                                                                                    |              |                     | 5 *     | ø5.2mm             | -40°C / +80°C        |    | ●   | ●  |                                                                                           |                                                                                            |
|         |          |                                                                                                                                                                                                                                                                                    |              |                     | 8       | n.a.               | -40°C / +80°C        |    | ●   |    |                                                                                           |                                                                                            |
| 48-K6   | PUR/TPO  |  ULstyle 21576 SHIELDED         | Black        | AWG 24<br>(0.25mm²) | 8       | ø7mm               | -40°C / +80°C        |    | ●   |    |                                                                                           | ●                                                                                          |
| G       | PUR/PUR  | SHIELDED                                                                                                                                                                                          | Black        | 0.34mm²             | 2 *     | n.a.               | -40°C / +80°C        | ●  | ●   |    |                                                                                           |                                                                                            |
|         |          |                                                                                                                                                                                                                                                                                    |              |                     | 3 *     | ø4.8mm             | -40°C / +80°C        | ●  | ●   |    |                                                                                           |                                                                                            |
|         |          |                                                                                                                                                                                                                                                                                    |              |                     | 4 *     | ø5.5mm             | -40°C / +80°C        | ●  | ●   |    |                                                                                           |                                                                                            |
|         |          |                                                                                                                                                                                                                                                                                    |              |                     | 5 *     | ø6mm               | -40°C / +80°C        |    | ●   | ●  |                                                                                           |                                                                                            |
|         |          |                                                                                                                                                                                                                                                                                    |              |                     | 8 *     | n.a.               | -40°C / +80°C        |    | ●   |    |                                                                                           |                                                                                            |
| G-K6-IS | PUR/TPO  |  ULstyle 21576 SHIELDED   | Black        | AWG 22<br>(0.34mm²) | 5       | ø5.4mm             | -40°C / +80°C        |    | ●   | ●  |                                                                                           | ●                                                                                          |

"PROFIBUS" CE ([1x2x0,25]) mm² IEC 60332-1  ([1x2x24]) AWG



| Code      | Material         | Type of cable                                                                                                                                                                                                                                                                    | Colour                | Section             | No.core | Cable ø<br>mm ±0.3 | Temperature range °C | M8 | M12 | M9 | M8<br> | M12<br> |
|-----------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------|---------|--------------------|----------------------|----|-----|----|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| T-4-K6-IS | PUR / Polyolefin |  ULstyle 444 SHIELDED   | Violet RAL4001 Desina | AWG 24<br>(0.25mm²) | 1 x 2   | ø8.2mm             | -30°C / +70°C        |    | ●   |    |                                                                                             | ●                                                                                            |

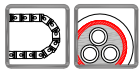
 AWM STYLE 2464 80°C 300V - AWM I/II A/B 80°C 300V FT1 - CONTROL DATABUST - Devicenet - O.R. FEST [(2xAWG24)H](2xAWG22)H)H2 - CE



| Code | Material         | Type of cable                                                                                                                                                                                           | Colour                | Section          | No.core      | Cable ø<br>mm ±0.3 | Temperature range °C | M8 | M12 | M9 | M8<br> | M12<br> |
|------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------|--------------|--------------------|----------------------|----|-----|----|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| 21-4 | PVC / Polyolefin |  ULstyle 2464 SHIELDED DEVICENET  | Violet RAL4001 Desina | AWG 24<br>AWG 22 | 1x 2 + 1 x 2 | ø7mm               | -30°C / +80°C        |    | ●   |    |                                                                                             | ●                                                                                            |

1x4xAWG22  AWM style 21576 - AWM I/II A/B 80°C 1000V 0 FT-2 EM

PROFINET

| Code    | Material           | Type of cable                                                                                                           | Colour                                                                            | Section       | No.core                          | Cable ø<br>mm ±0.3 | Temperature range °C | M8            | M12 | M9 | M8<br> | M12<br> |
|---------|--------------------|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------|----------------------------------|--------------------|----------------------|---------------|-----|----|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| 40-4-K6 | PUR/<br>Polyolefin |  ULstyle 21576<br>SHIELDED<br>PROFINET |  | Green RAL6018 | AWG 22<br>(0.34mm <sup>2</sup> ) | 4                  | ø6.7mm               | -30°C / +80°C |     | ●  |                                                                                           |                                                                                            |

 - AWM STYLE 20236 80°C 30V - AWM I/II A/B 80°C 30V FT1 - ETHERNET CABLE CAT.6 - O.R. PMXX-ST (4x2xAWG26)H/H2

ETHERNET

| Code    | Material            | Type of cable                                                                                                                  | Colour                                                                            | Section       | No.core                          | Cable ø<br>mm ±0.3 | Temperature range °C | M8            | M12 | M9 | M8<br> | M12<br> |
|---------|---------------------|--------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------|----------------------------------|--------------------|----------------------|---------------|-----|----|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| 71-8-K6 | PUR /<br>Polyolefin |  ULstyle 20236<br>SHIELDED<br>ETHERNET CAT.5E |  | Green RAL6016 | AWG 26<br>(0.14mm <sup>2</sup> ) | 4 x 2              | ø7.2mm               | -30°C / +70°C |     | ●  |                                                                                           |                                                                                            |

1x4xAWG22  AWM style 21576 - AWM I/II A/B 80°C 1000V 0 FT-2 EM

ETHERNET

| Code    | Material           | Type of cable                                                                                                           | Colour                                                                            | Section       | No.core                          | Cable ø<br>mm ±0.3 | Temperature range °C | M8            | M12 | M9 | M8<br> | M12<br> |
|---------|--------------------|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------|----------------------------------|--------------------|----------------------|---------------|-----|----|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| 66-4-K6 | PUR/<br>Polyolefin |  ULstyle 21576<br>SHIELDED<br>ETHERNET |  | Green RAL6016 | AWG 24<br>(0.25mm <sup>2</sup> ) | 2+2                | ø6mm                 | -30°C / +80°C |     | ●  |                                                                                           | ●                                                                                          |

## • CABLE OF M12 POWER CONNECTORS K-CODED / S-CODED :

4G1,5/4xAWG16  AWM style 20234 - AWM I/II A/B 80°C 1000V FT1

| Code    | Material            | Type of cable                                                                                                 | Colour                                                                              | Section                  | No.core                         | Cable ø<br>mm ±0.3 | Temperature range °C | M12<br>K-code | M12<br>L-code | M12<br>S-code | M12<br>S-code<br> |
|---------|---------------------|---------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------|---------------------------------|--------------------|----------------------|---------------|---------------|---------------|--------------------------------------------------------------------------------------------------------|
| 81-4-K6 | PUR /<br>Polyolefin |  ULstyle 20234<br>SHIELDED |  | Orange RAL2003<br>Desina | AWG 16<br>(1.5mm <sup>2</sup> ) | 4 *                | ø8.6mm               | -30°C / +80°C | ●             |               | ●                                                                                                      |

|      |         |          |                                                                                     |       |                     |     |          |               |   |   |   |  |
|------|---------|----------|-------------------------------------------------------------------------------------|-------|---------------------|-----|----------|---------------|---|---|---|--|
| 46   | PVC/PVC | CEI2022  |                                                                                     | Black | 1.50mm <sup>2</sup> | 4 * | ø10mm    | -20°C / +80°C | ● |   | ● |  |
|      |         |          |                                                                                     |       |                     | 5 * | ø10mm    | -20°C / +80°C | ● |   | ● |  |
| 70-5 | PVC/PVC | CEI2022  |                                                                                     | Black | 1.50mm <sup>2</sup> | 5 * | ø10.40mm | -20°C / +80°C |   | ● |   |  |
| 35   | PVC/PVC | CEI2022  |  | Black | 1.50mm <sup>2</sup> | 4 * | ø10mm    | -20°C / +80°C | ● |   | ● |  |
|      |         |          |                                                                                     |       |                     | 5 * | ø10.40mm | -20°C / +80°C | ● |   | ● |  |
| 73-5 | PVC/PVC | CEI2022  |  | Black | 1.50mm <sup>2</sup> | 5 * | ø10.40mm | -20°C / +80°C |   | ● |   |  |
| 53   | PUR/PUR |          |                                                                                     | Black | 1.50mm <sup>2</sup> | 4 * | ø10mm    | -40°C / +80°C | ● |   | ● |  |
|      |         |          |                                                                                     |       |                     | 5 * | ø10mm    | -40°C / +80°C | ● |   | ● |  |
| 54   | PUR/PUR | SHIELDED |  | Black | 1.50mm <sup>2</sup> | 4 * | ø10mm    | -40°C / +80°C | ● |   | ● |  |
|      |         |          |                                                                                     |       |                     | 5 * | ø10.40mm | -40°C / +80°C | ● |   | ● |  |

• **CABLE OF M8 DISTRIBUTION BOXES :**

| Code             | Material | Type of cable                                                                                                                                                                     | Colour | Section                                         | No.core | Cable $\varnothing$<br>mm $\pm 0.3$ | Temperature<br>range °C | BOX SINGLE SIGNAL |        |        |         |         |
|------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------------------------------------------------|---------|-------------------------------------|-------------------------|-------------------|--------|--------|---------|---------|
|                  |          |                                                                                                                                                                                   |        |                                                 |         |                                     |                         | 4 POS.            | 6 POS. | 8 POS. | 10 POS. | 12 POS. |
| <b>V-2+8</b>     | PVC /PVC | CEI2022II O.R.                                                                                                                                                                    | Black  | 2x0.50mm <sup>2</sup><br>8x0.25mm <sup>2</sup>  | 2+8     | ø9mm                                | -20°C / +80°C           | ●                 | ●      | ●      |         |         |
| <b>V-2+12</b>    | PVC /PVC | CEI2022II O.R.                                                                                                                                                                    | Black  | 2x0.50mm <sup>2</sup><br>12x0.25mm <sup>2</sup> | 2+12    | ø10mm                               | -20°C / +80°C           |                   |        |        | ●       | ●       |
| <b>D-2+6-K6</b>  | PUR /PUR |  ULstyle 21576  | Black  | 2x20AWG<br>6x22AWG                              | 2+6     | ø7,50mm                             | -40°C / +80°C           | ●                 | ●      |        |         |         |
| <b>D-2+10-K6</b> | PUR /PUR |  ULstyle 21576  | Black  | 2x20AWG<br>10x22AWG                             | 2+10    | ø8,50mm                             | -40°C / +80°C           |                   |        | ●      | ●       |         |
| <b>P-2+8</b>     | PUR /PUR |                                                                                                                                                                                   | Black  | 2x0.50mm <sup>2</sup><br>8x0.25mm <sup>2</sup>  | 2+8     | ø9mm                                | -40°C / +80°C           | ●                 | ●      | ●      |         |         |
| <b>P-2+12</b>    | PUR /PUR |                                                                                                                                                                                   | Black  | 2x0.50mm <sup>2</sup><br>12x0.25mm <sup>2</sup> | 2+12    | ø10mm                               | -40°C / +80°C           |                   |        |        | ●       | ●       |

• **CABLE OF M12 DISTRIBUTION BOXES :**

| Code                | Material | Type of cable                                                                                                                                                                         | Colour | Section                                         | No.core | Cable $\varnothing$<br>mm $\pm 0.3$ | Temperature<br>range °C | BOX SINGLE SIGNAL |        |        | BOX DOUBLE SIGNAL |        |        |
|---------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------------------------------------------------|---------|-------------------------------------|-------------------------|-------------------|--------|--------|-------------------|--------|--------|
|                     |          |                                                                                                                                                                                       |        |                                                 |         |                                     |                         | 4 POS.            | 6 POS. | 8 POS. | 4 POS.            | 6 POS. | 8 POS. |
| <b>V-3+8</b>        | PVC /PVC | CEI2022II O.R.                                                                                                                                                                        | Black  | 3G0.75mm <sup>2</sup><br>8x0.34mm <sup>2</sup>  | 3+8     | ø8.80mm                             | -20°C / +80°C           | ●                 | ●      | ●      | ●                 |        |        |
| <b>V-3+16</b>       | PVC /PVC | CEI2022II O.R.                                                                                                                                                                        | Black  | 3G0.75mm <sup>2</sup><br>16x0.34mm <sup>2</sup> | 3+16    | ø10.60mm                            | -20°C / +80°C           |                   |        |        |                   | ●      | ●      |
| <b>P-3+8-K6-IS</b>  | PUR /TPO |  ULstyle 20549  | Black  | 3G18AWG<br>8x22AWG                              | 3+8     | ø8.80mm                             | -40°C / +80°C           | ●                 | ●      | ●      | ●                 |        |        |
| <b>P-3+16-K6-IS</b> | PUR /TPO |  ULstyle 20549  | Black  | 3G18AWG<br>8x22AWG                              | 3+16    | ø10.60mm                            | -40°C / +80°C           |                   |        |        |                   | ●      | ●      |

\* = Cables with minimum quantity required.