



HTP HIGH TECH PRODUCTS S.R.L.
YOUR CONNECTIVITY PARTNER



H.T.P. s.r.l. is a dynamic company, established in 2003, operating in pneumatics, hydraulics and industrial automation.

H.T.P. s.r.l. produces a wide range of EN175301-803 connectors (former DIN 43650 connectors) for solenoid valve, as well as M8, M12, M23, 7/8" circular connectors, D-SUB connectors, passive distribution boxes and lately also LED industrial lights.

Thanks to its unique flexibility H.T.P. s.r.l. is able to follow constantly the evolution of the market by developing new key products such as energy-saving connectors, structured cabling solutions and splitters allowing the end customer to save time in terms of wiring and to produce the machines more quickly thus being more competitive than its competitors.

H.T.P. s.r.l. builds custom connectors (even personalized with customer's logo) through innovative, unique, effective and cost-saving technical solutions.

Quality, reliability and flexibility make H.T.P. s.r.l. a partner you can trust and rely on.

H.T.P. s.r.l. has been for many years the leader in the following markets:
Pneumatics, hydraulics and producers of pressure switches.

Over the years H.T.P. s.r.l. has sold its products in more than 60 countries worldwide in all continents and to first class customers.

The key philosophy of the company is to focus on skills and expertise of custom manufacturing to enhance competitiveness.

Thanks to consolidated expertise, custom connectors are the best solution for non-standard requirements: the design is shared with the client and responds best to specific requests.

The main commercial advantages that H.T.P. s.r.l. can offer are the following:
Excellent service and high quality of all products.

Competitive prices in the international market in relation to the entire range of products.

Those who turn to H.T.P. s.r.l. instead of buying cable and products to be assembled receive connectors already assembled with cables, lengths and sizes meeting the required specifications.

To provide all these services H.T.P. s.r.l. employs staff capable of understanding the particular needs of each customer in order to deliver the specific required product in a short time.

Today H.T.P. s.r.l. is the protagonist in the market with head office in Brembate di Sopra (BG), Italy, where it has more than eight million pieces in stock.

H.T.P. s.r.l. also has branches in Rockaway, New Jersey, USA, and in Osaka, Japan, all with related sales offices and warehouses.

All this allows just-in-time deliveries and Kanban guaranteeing the confirmed lead time without risk of lines stop for customers.

H.T.P. productions are located in China and in Italy.

The organization of the production, certified in accordance with ISO 9001, is done according to criteria that enable the achievement of a standard of quality of the highest level.

Quality control of every single finished product is performed twice, in order to guarantee our customers absolute quality.

Since H.T.P. s.r.l. also has a Department for the production of moulds, it has the ability to offer its customers: flexibility, competence and quality also in the development of custom products in a very short time.

The various locations are a team capable to absorb and respond to requests from the world of industrial production more and more in real time.

To have a better idea of our range of products, please visit our web site at www.webhttp.eu and contact our sales department at +39-035-692509 or send an email to: info@webhttp.eu.

CERTIFICATO
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 CERTIFICADO
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 CERTIFICATE



CERTIFICATO

Nr. 50 100 10684 Rev.005

SI ATTESTA CHE / THIS IS TO CERTIFY THAT

IL SISTEMA DI GESTIONE PER LA QUALITÀ DI
THE QUALITY MANAGEMENT SYSTEM OF



HTP[®]
HIGH TECH PRODUCTS S.R.L.

SEDE LEGALE:
REGISTERED OFFICE:

**VIA GIACOMO QUARENghi 11
IT - 24122 BERGAMO (BG)**

SEDI OPERATIVE: VEDI ALLEGATO 1 / OPERATIONAL SITES: SEE ANNEX 1

E CONFORME AI REQUISITI DELLA NORMA
HAS BEEN FOUND TO COMPLY WITH THE REQUIREMENTS OF

UNI EN ISO 9001:2015

QUESTO CERTIFICATO È VALIDO PER IL SEGUENTE CAMPO DI APPLICAZIONE
THIS CERTIFICATE IS VALID FOR THE FOLLOWING SCOPE OF APPLICATION

**Progettazione, gestione fabbricazione e commercializzazione di
connettori, sensori, prolunghe per automazione e lampade LED
(IAF 19, 29)**

**Design, manufacturing management and trade of industrial
connectors, sensor switches, extensions for automation and LED
lights (IAF 19, 29)**

Per l'Organismo di Certificazione
For the Certification Body

ACCREDITA
TÜV Italia S.r.l.

SGQ 19 0004

Obiettivo degli Accordi di Certificazione
Goal of the Agreements
Regolamento di ISO 9001 certificato Nazionale
Regulation Agreement

Validità / Validity

Dal / From: 2023-10-21

Ai / To: 2026-10-20

Francesco Scarlata

Francesco Scarlata
Direttore Divisione Business Assurance
Business Assurance Division Manager

2023-09-18

Data emissione /
Issuing Date

PRIMA CERTIFICAZIONE / FIRST CERTIFICATION: 2011-10-21

*LA VALIDITÀ DEL PRESENTE CERTIFICATO È SOTTOPOSTA A SORVEGLIANZA PERIODICA A 12 MESI E AL RISERVA COMPLETO DEL SISTEMA DI GESTIONE SOTTOPOSTO CON VERIFICA TRIENNALE.
*THE VALIDITY OF THE PRESENT CERTIFICATE DEPENDS ON THE ANNUAL SURVEILLANCE EVERY 12 MONTHS AND ON THE COMPLETE REVIEW OF COMPANY MANAGEMENT SYSTEM AFTER THREE YEARS.

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WHERE TO FIND US:



HTP WEBSITE



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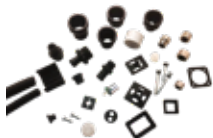
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• **CE CONFORMITY DECLARATION**

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 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 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 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**



US = UNITED STATES REQUIREMENTS
UL = RECOGNIZED PRODUCTS
C = CANADIAN REQUIREMENTS

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



US = UNITED STATES REQUIREMENTS
UL = LISTED PRODUCTS
C = CANADIAN REQUIREMENTS

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.

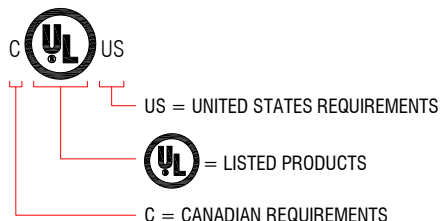
Extension cable Assembly, series M8, Cat. Nos. 08FA, 08FD, 08MA, 08MD, 08FJ, 08FV, 08MJ, 08MV.

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.

CONFORMITY

CE , ROHS , REACH conformity declaration,
EAC and UL Certificates



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

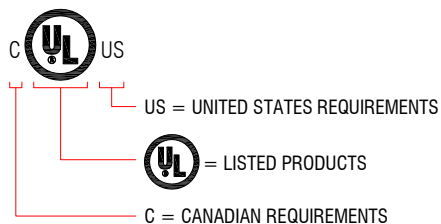
Extension cable Assembly, Series M12, Cat. Nos. 12 or B-12 or D-12 or S-12.

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.

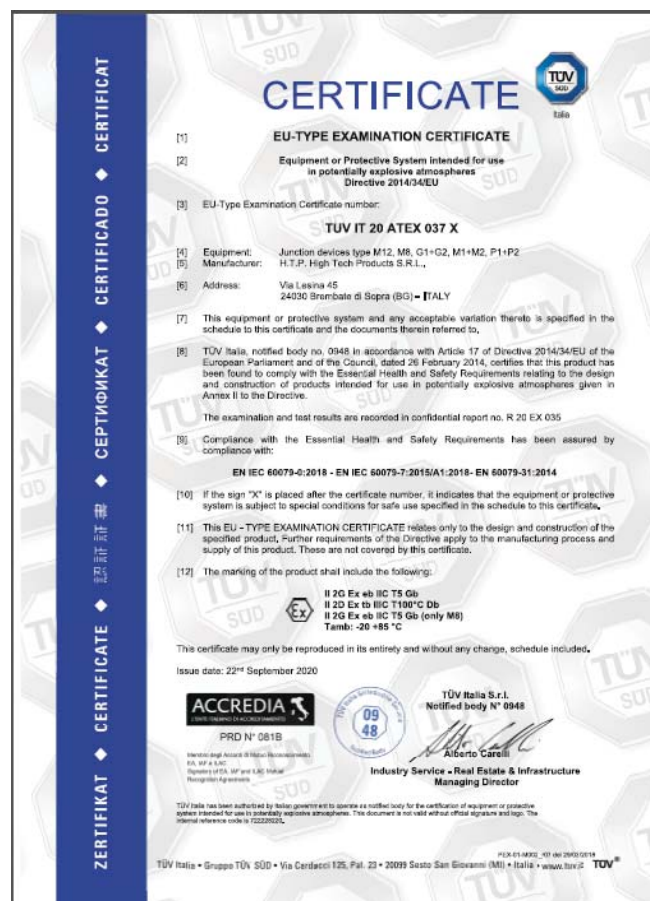
Like all "New Approach" Directives, the ATEX Legislation lays down the application of standards that assess the technical compliance of products.

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

CE₀₉₄₈ Ex II 2G Ex eb IIC T5 Gb ; II 2D Ex tb IIIC T100°C Db IP65/67
 CE₀₉₄₈ Ex II 2G Ex eb IIC T5 Gb ; II 2D Ex tb IIIC T100°C Db IP65/67
 CE₀₉₄₈ Ex II 2G Ex eb IIC T5 Gb IP55/57

DIN VALVE CONNECTORS FIELD ATTACHABLE:

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



M12 CIRCULAR CONNECTORS FIELD ATTACHABLE:

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

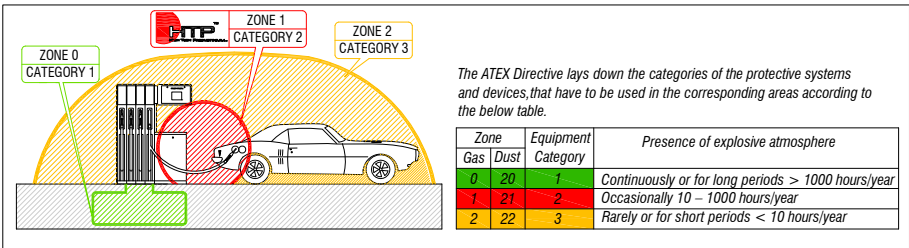
M8 CIRCULAR CONNECTORS FIELD ATTACHABLE:

CE ₀₉₄₈	Ex	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 Marking 0948 : Notified body.	 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



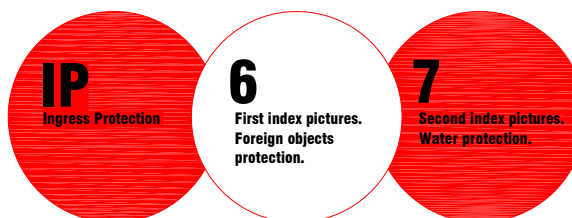
5 Equipment	6 Type of inition protection	7 Explosion Group
Ex= explosion-proof equipment.	eb = "eb" increased safety equipment. tb = equipment with an enclosure that prevents dust ingress and with devices to limit surface temperatures; protection level "b".	IIC = equipment not addressed to underground 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). IIIC = 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).


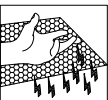
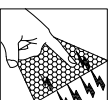



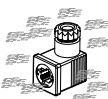
8 Definition of temperatures generated by equipment	9 Equipment protection level	10 Protection class
T5 = equipment that can reach, but not exceed 100°C of absolute temperature. T...°C = equipment that can reach, but not exceed in surface ...°C of absolute temperature.	Gb = equivalent to 2G category. 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.



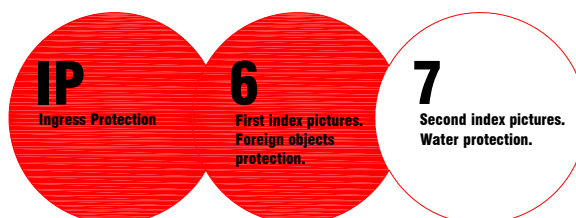
Index	Degree of protection	Definition
0	 No protection against accidental contact, no protection against solid foreign bodies.	
1	 Protection against contact with any large area by hand and against solid foreign bodies with $\varnothing > 50\text{mm}$.	The sample object, a ball of 50mm diameter,must 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.


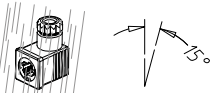
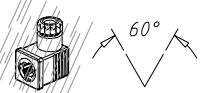
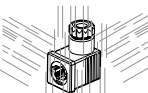





CONFORMITY

IP (International protection classes) guide

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

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



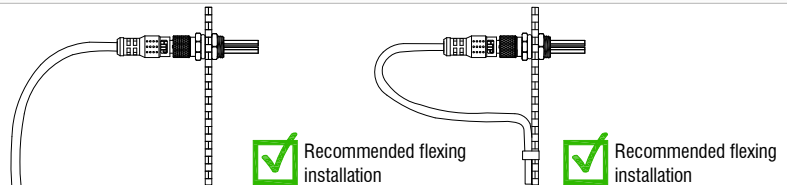
Index	Degree of protection	Definition
0	No protection against water.	
1	 Protection against vertical water drips.	Vertically falling water drops must not have any adverse effects.
2	 Protection against water drips (up to a 15° angle)	Vertically falling water drops must not have any adverse effects when the enclosure is tilted up to 15° on either side of the vertical.
3	 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.
4	 Protection against splashed water from all directions.	Water, splashed against the enclosure from any direction, must not have any adverse effects.
5	 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.
6	 Protection against temporary flooding.	Water, projected in powerful jets against the enclosure from any direction, must not have any adverse effects.
7	 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.
8	 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.
9 K	 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.

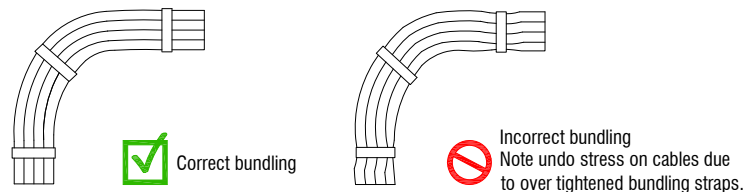
BEND RADIUS:

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.



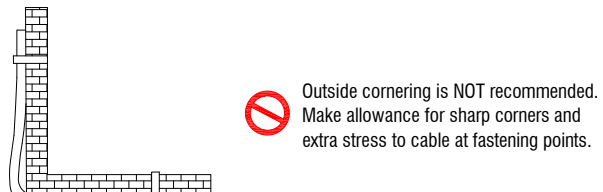
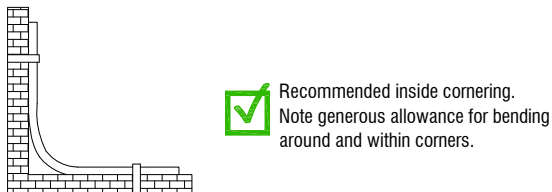
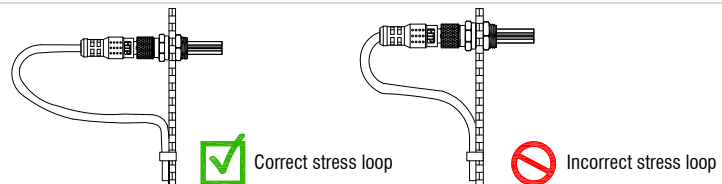
CABLE BUNDLING:

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.



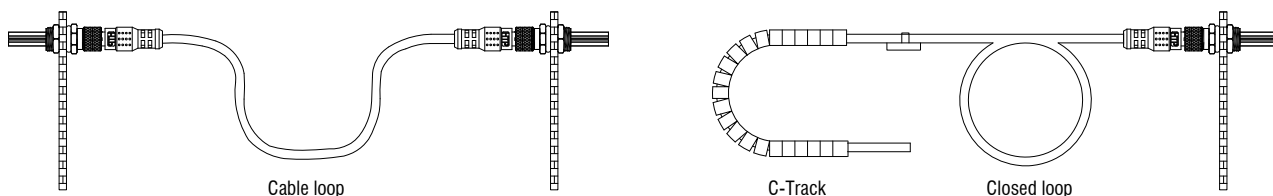
STRESS POINTS:

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).

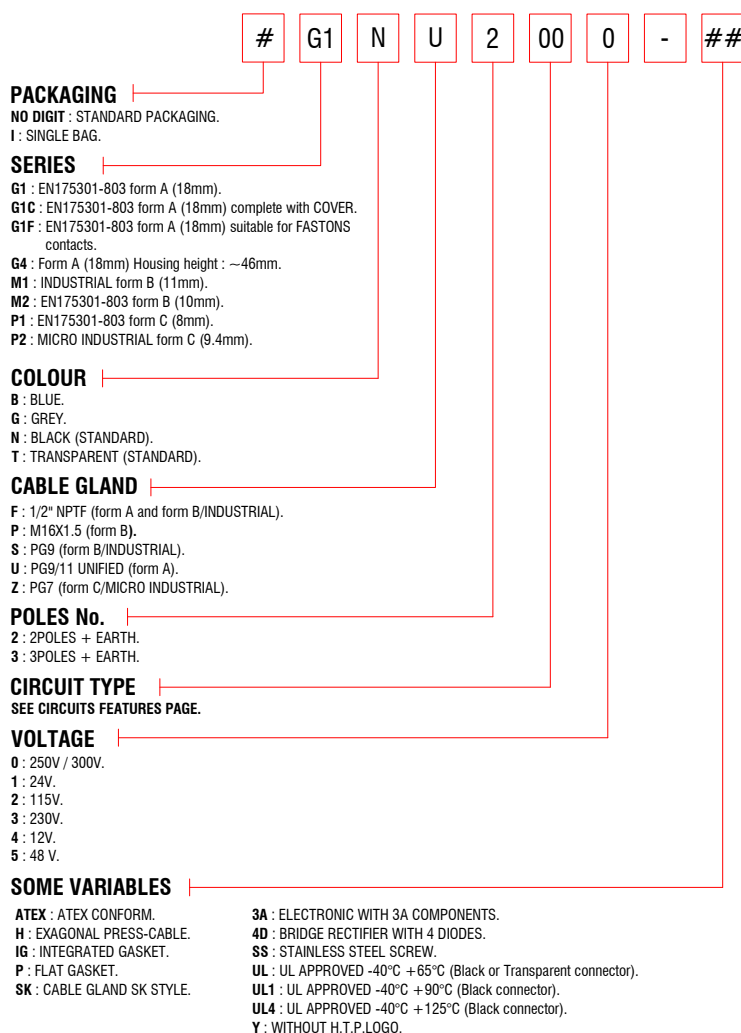
Nominal current :

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

Max contact current :

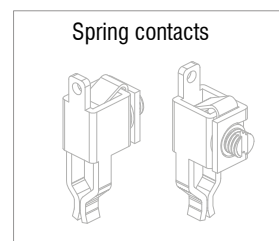
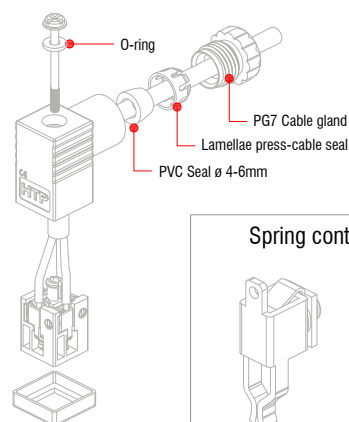
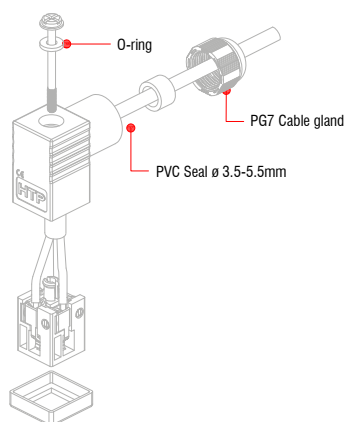
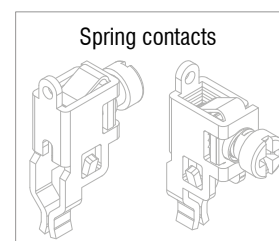
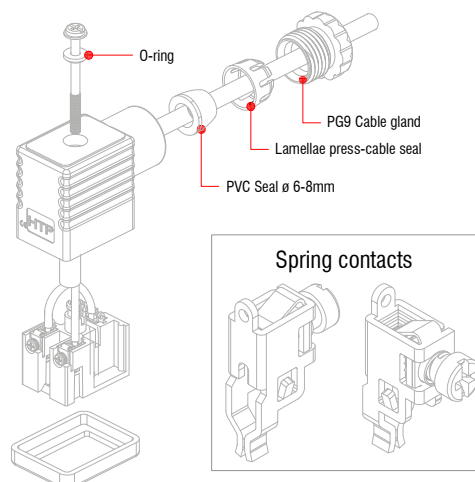
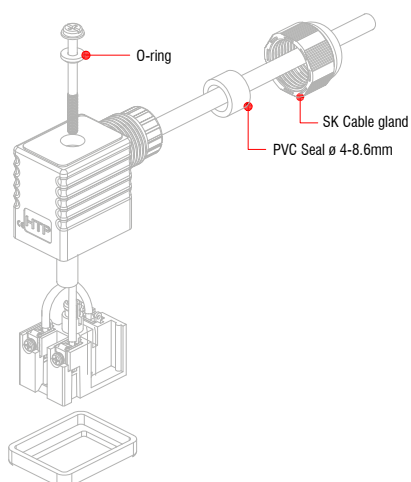
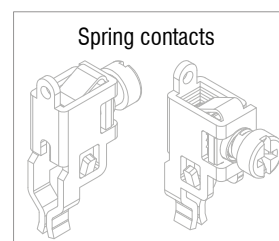
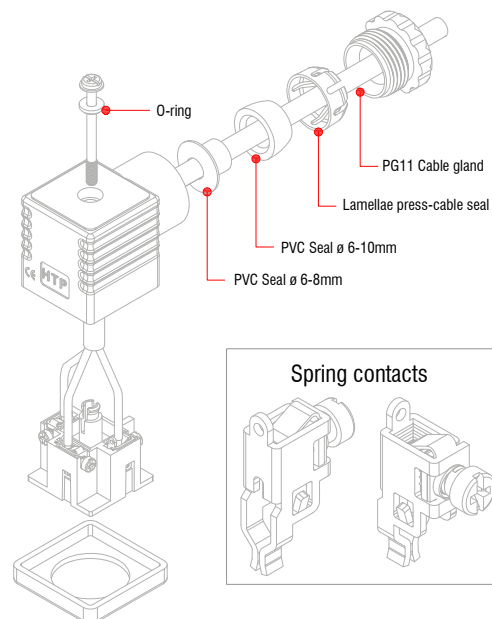
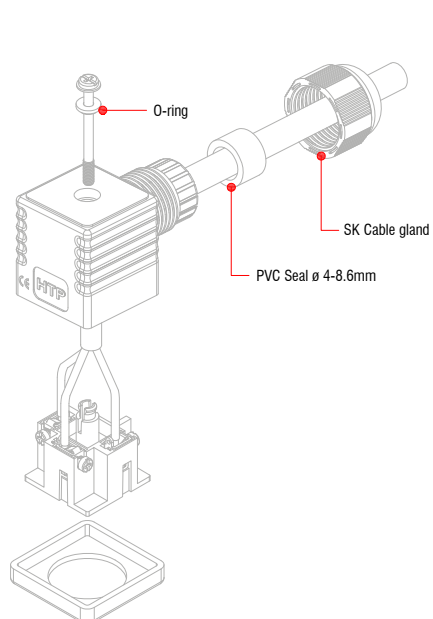
G1-G4-M1-M2 series: 16A
 P1-P2 series: 10A.
 G1-G4-M1-M2 ATEX series: 10A*
 P1-P2 series: 6A*.

*Max current permanent ammissible for one contacts pair.



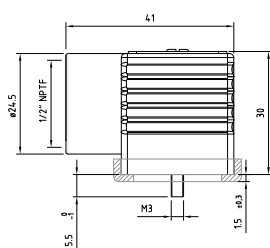
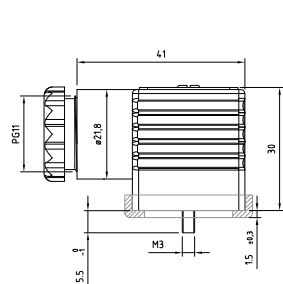
VALVE CONNECTORS

Field attachable connectors - General features and codification scheme

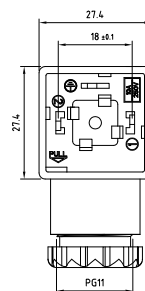




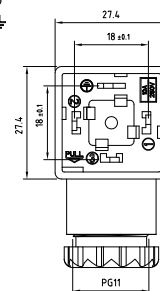
Technical drawing



- — 1
- — 2
- — 3



- — 1
- — 2
- — 3
- — 4

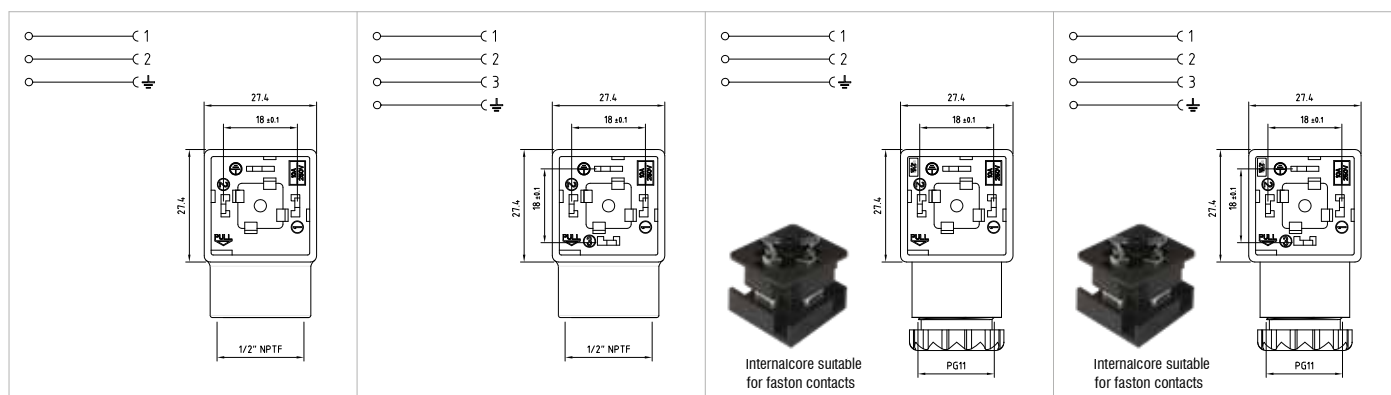


Product description

Connector type	DIN valve connectors	DIN valve connectors
Conforms to	EN175301-803	EN175301-803
Construction type	A	A
Part number	G1NU2000	G1NU3000
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
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 6-10mm	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
Packaging		
Qty/Box	50pcs / box	50pcs / box
Other accessories options		
See accessories section		
Notes:		
	Connector with Grey Housing: P/N G1GU2000	Connector with Grey Housing: P/N G1GU3000

VALVE CONNECTORS

Field attachable connectors - Form A
EN175301-803(DIN43650)

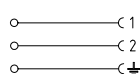
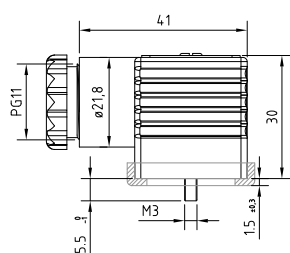


Product description

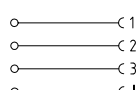
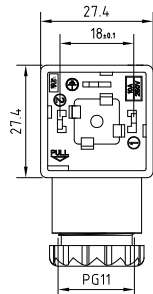
DIN valve connectors	DIN valve connectors	DIN valve connectors	DIN valve connectors
EN175301-803	EN175301-803	EN175301-803	EN175301-803
A	A	A	A
G1NF2000 Square connector G1 series complete with gasket and fixing screw. Connector without electronic.	G1NF3000 Square connector G1 series complete with gasket and fixing screw. Connector without electronic.	G1FNU2000 Square connector G1F series, complete with gasket and fixing screw. Connector without electronic.	G1FNU3000 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
Technical data			
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	0.5 N*m	0.5 N*m
Packaging			
50pcs / box	50pcs / box	50pcs / box	50pcs / box
Other accessories options			
See accessories section			
Notes:			
Connector with Grey Housing: P/N G1GF2000 Connector without press-cable screw	Connector with Grey Housing: P/N G1GF3000 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



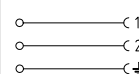
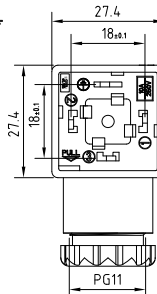
Technical drawing



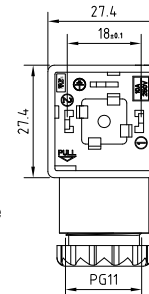
UL[®] US



UL[®] US



Internalcore suitable
for faston contacts
UL[®] US



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	G1NU2000-UL	G1NU3000-UL	G1FNU2000-UL
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
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Other accessories options

See accessories section

Notes:

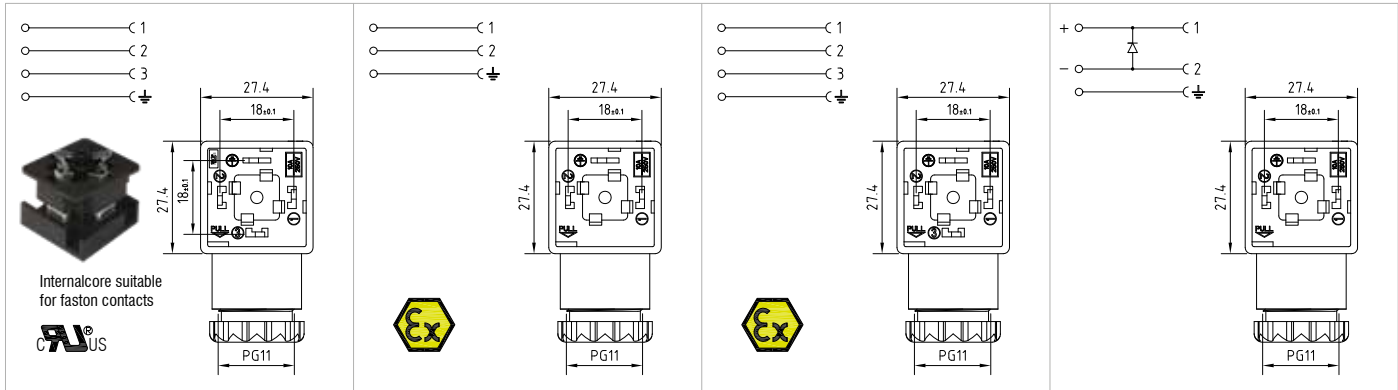
Connector available with different circuits

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

VALVE CONNECTORS

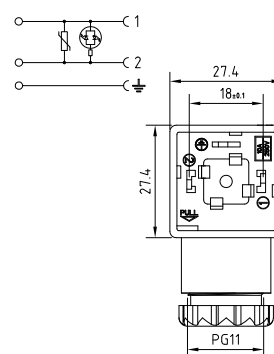
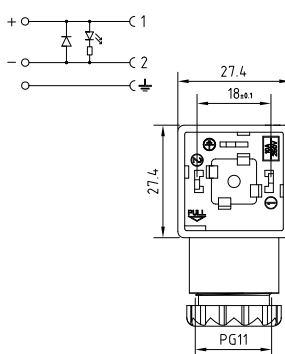
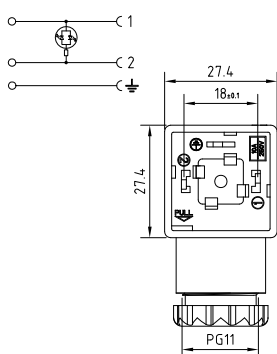
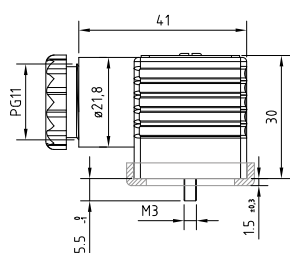
Field attachable connectors - Form A
EN175301-803(DIN43650)



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
G1FNU3000-UL Square connector G1F series, ULapproved, complete with gasket and fixing screw. Connector without electronic.	G1NU2000-ATEX Square connector G1 series,ATEX conform, complete with gasket and fixing screw. Connector without electronic.	G1NU3000-ATEX Square connector G1 series,ATEX conform, complete with gasket and fixing screw. Connector without electronic.	G1NU2D03 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
Technical data			
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
Packaging			
50pcs / box	Singly packed in plastic bag	Singly packed in plastic bag	50pcs / box
Other accessories options			
See accessories section			
Notes: 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	G1TU2L01	G1TU2L02	G1TU2L03	G1TU2DL1	G1TU2DL2	G1TU2DL3	G1TU2VL1	G1TU2VL2	G1TU2VL3
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		
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Other accessories options

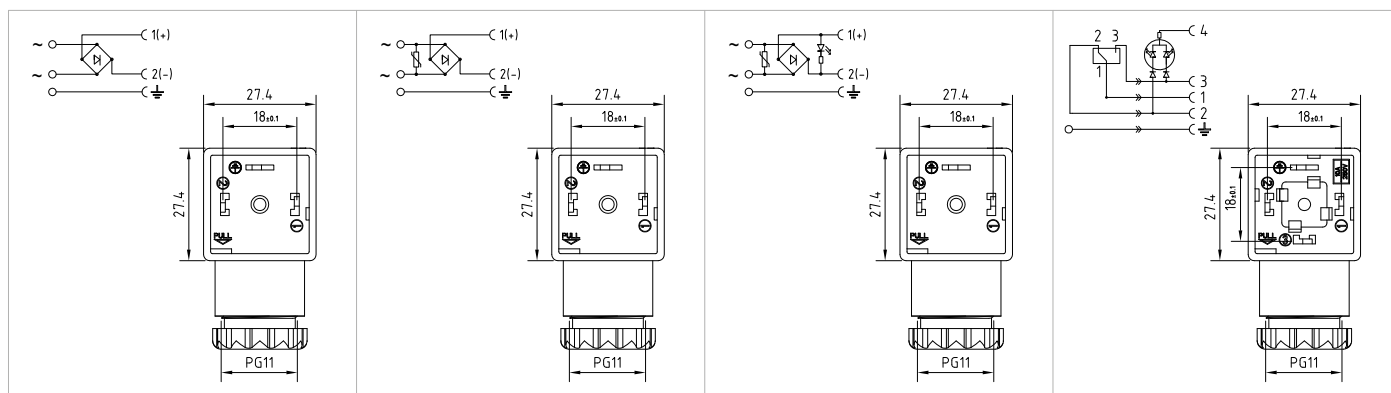
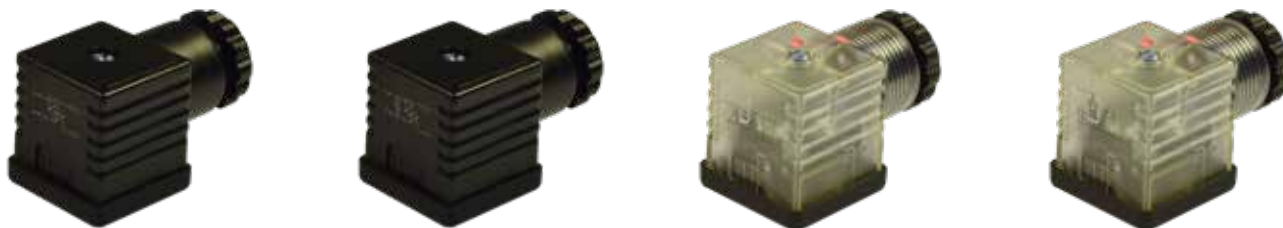
See accessories section

Notes:

Connector available with different led colour

VALVE CONNECTORS

Field attachable connectors - Form A
EN175301-803(DIN43650)



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		
G1NU2R03	G1NU2RV1	G1NU2RV2	G1NU2RV3	G1TU2RL1	G1TU2RL2	G1TU2RL3	G1TU3Q01 G1TU3Q02 G1TU3Q03
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

Technical data

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

Packaging

50pcs / box	50pcs / box	50pcs / box	50pcs / box
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Other accessories options

See accessories section

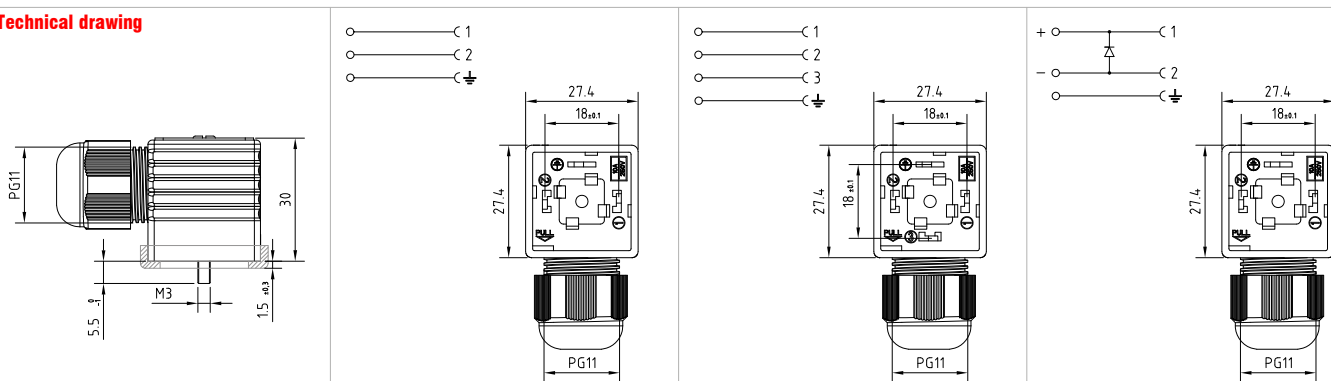
Notes:

Connector available with different led colour

Connector available with different led connection:
Q8 circuit (Green pin 2; Red pin 3)
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	G1NU2000-SK	G1NU3000-SK	G1NU2D03-SK
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
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Other accessories options

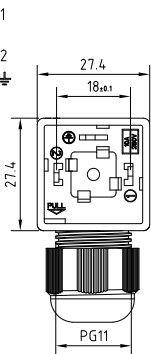
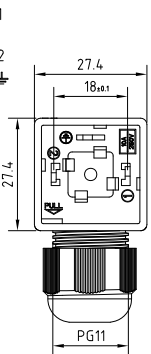
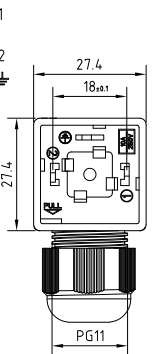
See accessories section

Notes:

VALVE CONNECTORS

Field attachable connectors - Form A
EN175301-803(DIN43650)



									
Product description									
DIN valve connectors	DIN valve connectors	DIN valve connectors							
EN175301-803	EN175301-803	EN175301-803							
A	A	A							
G1TU2L01-SK	G1TU2L02-SK	G1TU2L03-SK	G1TU2DL1-SK	G1TU2DL2-SK	G1TU2DL3-SK	G1TU2VL1-SK	G1TU2VL2-SK	G1TU2VL3-SK	
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									



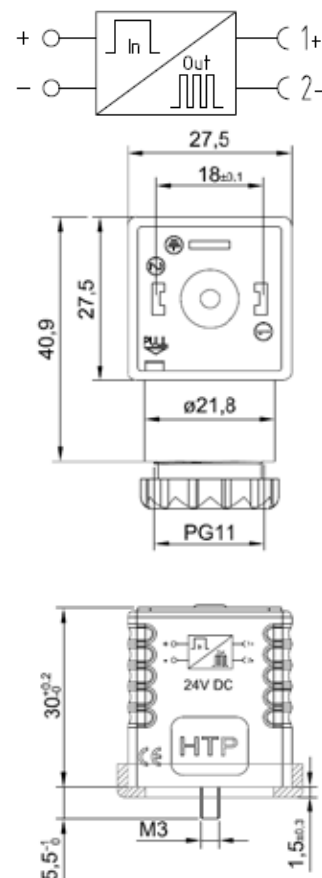
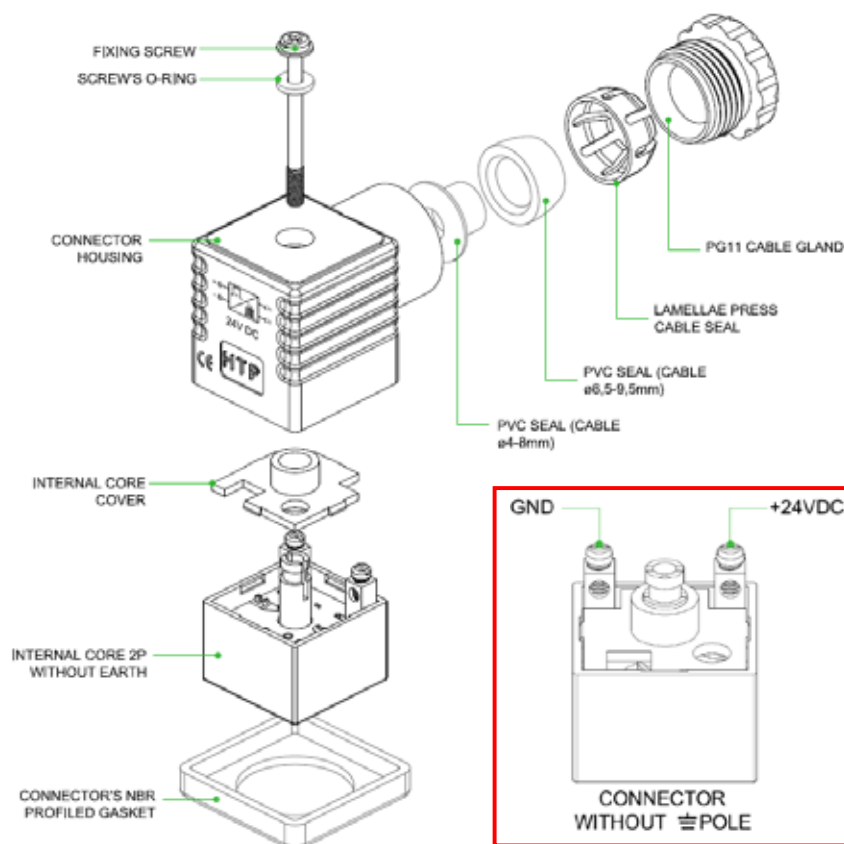
GENERAL SPECIFICATIONS

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

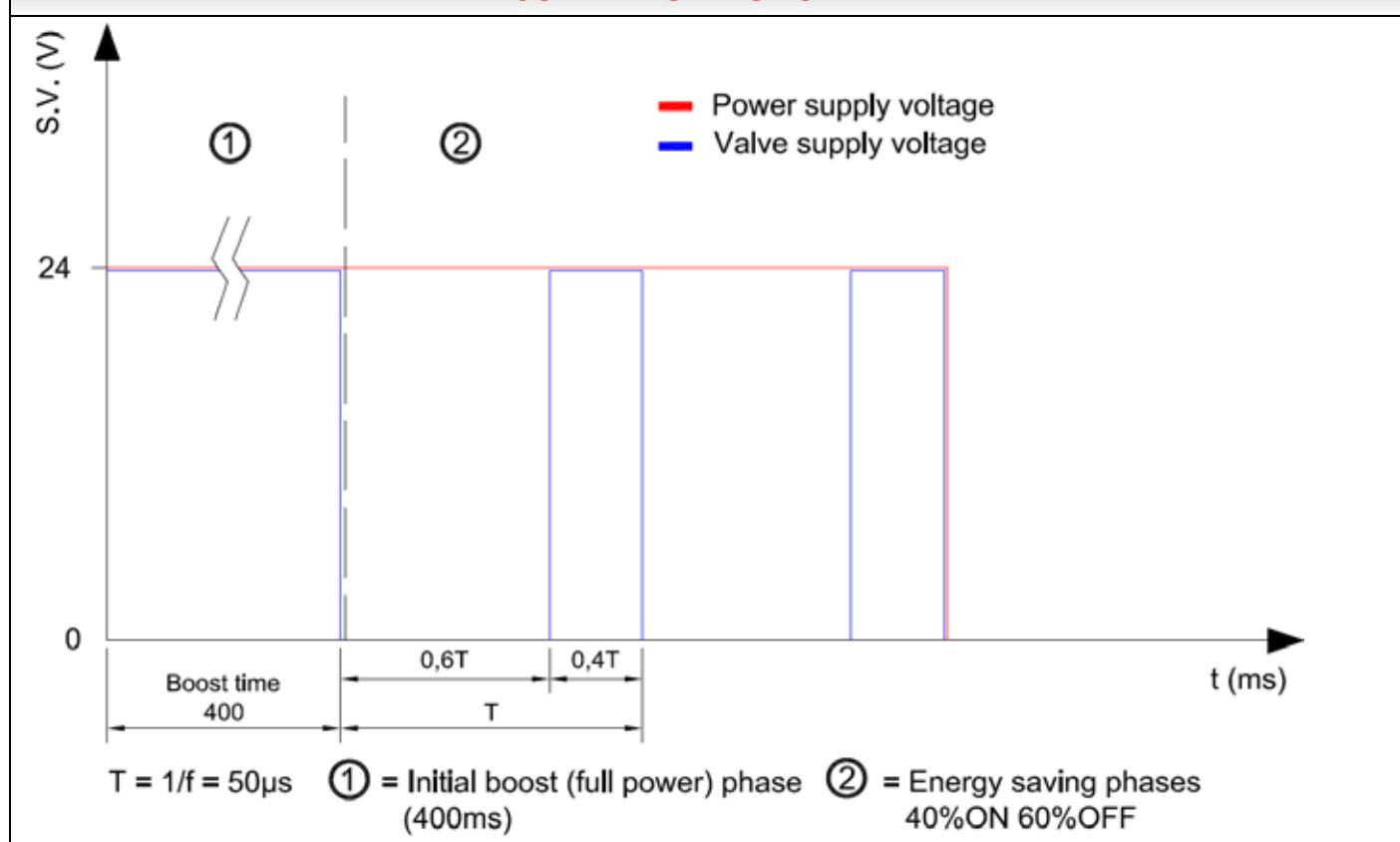
CONNECTOR DRAWING



VALVE CONNECTORS

Field attachable connectors - Form A
EN175301-803(DIN43650)

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

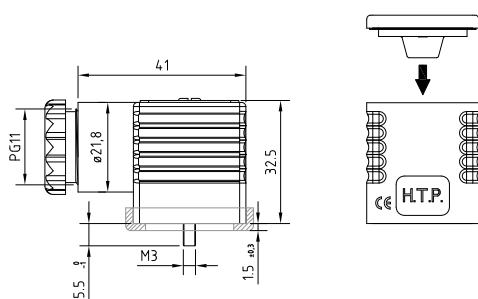
- AMBIENT TEMPERATURE = 20 °C
- TEMPERATURE INSIDE VALVE AFTER 30 SECONDS WITH STANDARD CONNECTOR BOARD = 132 °C
- TEMPERATURE INSIDE VALVE AFTER 60 SECONDS WITH ENERGY SAVING CONNECTOR = 75 °C

EMC TEST

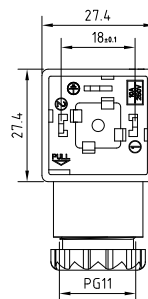
- THE PRODUCT SUCCEED THE EMC TESTS (REFERS TO *DIRECTIVE 2014/30/EU*)



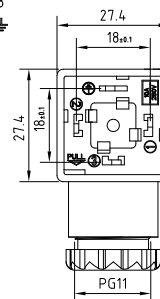
Technical drawing



- — C 1
- — C 2
- — C \perp



- — C 1
- — C 2
- — C 3
- — C \perp



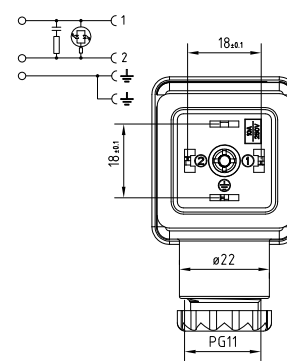
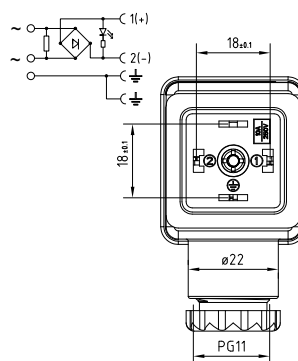
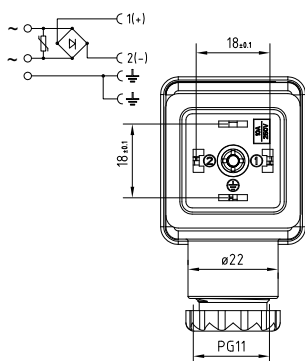
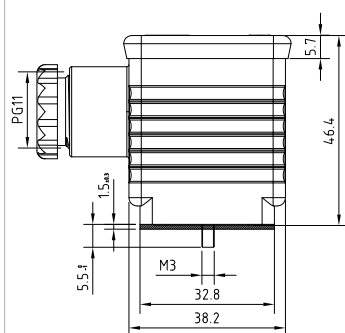
Product description

Connector type	DIN valve connectors	DIN valve connectors
Conforms to	EN175301-803	EN175301-803
Construction type	A	A
Part number	G1CNU2000	G1CNU3000
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
Technical data		
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	ϕ cable 6-10mm	ϕ 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
Packaging		
Qty/Box	50pcs in box	50pcs in box
Other accessories options		
See accessories section		
Notes:		
	Connector available with different circuits.	Connector available with different circuits.

Field attachable connectors - Form A
EN175301-803(DIN43650)



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	G4NU2RV1-3A	G4NU2RV2-3A	G4NU2RV3-3A	G4TU2RL1-3A	G4TU2RL2-3A	G4TU2RL3-3A	G4TU2FL1-3A	G4TU2FL2-3A	G4TU2FL3-3A
Description	Square connector G4 series complete with gasket and fixing screw. Connector with electronic (3A components).			Square connector G4 series complete with gasket and fixing screw. Connector with electronic (3A components).			Square connector G4 series complete with gasket and fixing screw. Connector with electronic (3A components).		
Contacts spacing	18mm			18mm			18mm		
Number of contacts	2poles + 2 P.E.			2poles + 2 P.E.			2poles + 2 P.E.		
Earth positioning	H.6-12			H.6-12			H.6-12		
Housing colour	Black / Black Cover			Black / Transparent Cover			Black / Transparent Cover		
Housing height	46.4mm			46.4mm			46.4mm		
Cable gland	PG9/PG11 unified			PG9/PG11 unified			PG9/PG11 unified		
Gasket type	Flat NBR gasket			Flat NBR gasket			Flat NBR gasket		

Technical data

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	115V AC	230V AC	24V AC	115V AC	230V AC	24V AC	115V AC	230V AC
Circuit type	Full-Wave Bridge Rectifier (3A) + Varistor (3A)			Full-Wave Bridge Rectifier(3A) + Varistor(3A) + Led			RC circuit+ Led		
Led colour	-			Red			Red		
Suitable cable	ø cable 6-10mm			ø cable 6-10mm			ø cable 6-10mm		
Central fixing screw	M3 L=42mm			M3 L=42mm			M3 L=42mm		
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	40pcs in box	40pcs in box	40pcs in box
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Other accessories options

See accessories section

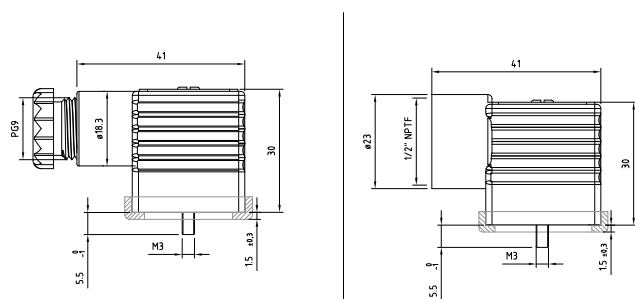
Notes:

Connector available with different led colour

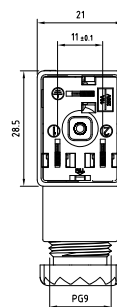
Connector available with different led colour



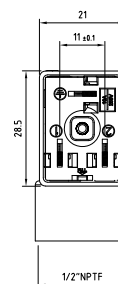
Technical drawing



- — C 1
- — C 2
- — C $\frac{1}{2}$



- — C 1
- — C 2
- — C $\frac{1}{2}$



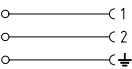
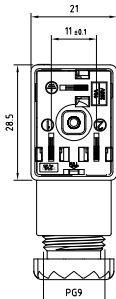

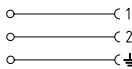
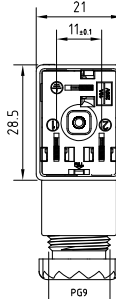

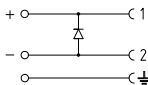
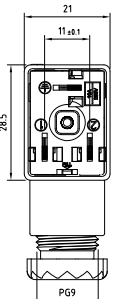
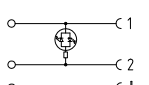
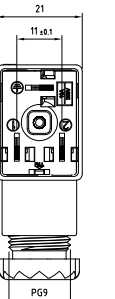
Product description

Connector type	DIN valve connectors	DIN valve connectors
Conforms to	Industrial	Industrial
Construction type	B	B
Part number	M1NS2000	M1NF2000
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
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 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
Packaging		
Qty/Box	50pcs / box	50pcs / box
Other accessories options		
See accessories section		
Notes:		
	Connector with Grey Housing: P/N M1GS2000	Connector with Grey Housing: P/N M1GF2000 Connector without press-cable screw

VALVE CONNECTORS

Field attachable connectors - Form B - Industrial



  	  	 	 
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Product description

DIN valve connectors	DIN valve connectors	DIN valve connectors	DIN valve connectors
Industrial	Industrial	Industrial	Industrial
B	B	B	B
M1NS2000-UL Rectangular connector M1 series, UL approved, complete with gasket and fixing screw. Connector without electronic.	M1NS2000-ATEX Rectangular connector M1 series, ATEX conform, complete with gasket and fixing screw. Connector without electronic.	M1NS2D03 Rectangular connector M1 series complete with gasket and fixing screw. Connector with electronic.	M1TS2L01 M1TS2L02 M1TS2L03 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

Technical data

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

Packaging

50pcs / box	Singly paked in plastic bag	50pcs / box	50pcs / box
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Other accessories options

See accessories section

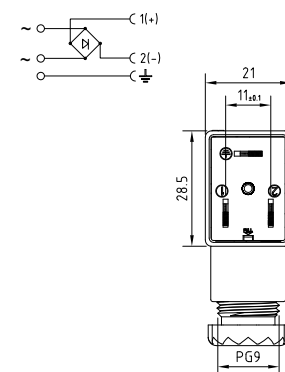
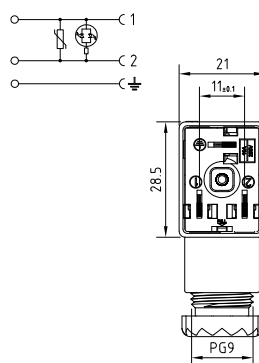
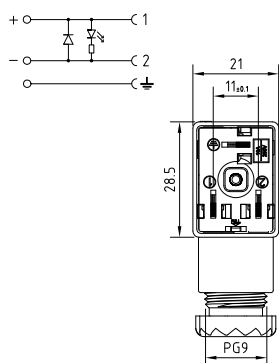
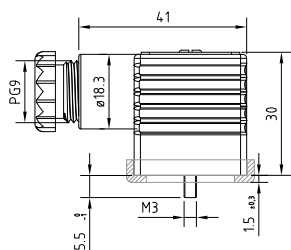
Notes:

Connector available with different circuits.

Connector available with different led colour



Technical drawing



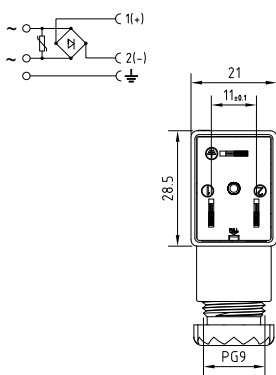
Product description

Connector type	DIN valve connectors			DIN valve connectors			DIN valve connectors		
Conforms to	Industrial			Industrial			Industrial		
Construction type	B			B			B		
Part number	M1TS2DL1	M1TS2DL2	M1TS2DL3	M1TS2VL1	M1TS2VL2	M1TS2VL3	M1NS2R03		
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		
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 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		
Packaging									
Qty/Box	50pcs / box			50pcs / box			50pcs / box		
Other accessories options									
See accessories section									
Notes:	Connector available with different led colour			Connector available with different led colour					

VALVE CONNECTORS

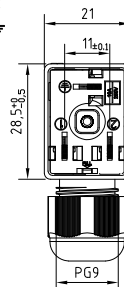
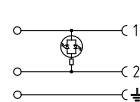
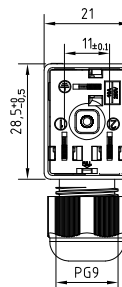
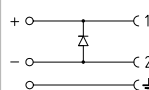
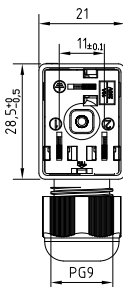
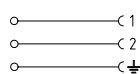
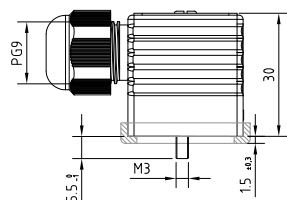
Field attachable connectors - Form B - Industrial



					
Product description					
DIN valve connectors		DIN valve connectors			
Industrial		Industrial			
B		B			
M1NS2RV1	M1NS2RV2	M1NS2RV3	M1TS2RL1	M1TS2RL2	M1TS2RL3
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		
PG9			PG9		
Profiled NBR gasket			Profiled NBR gasket		
Technical data					
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 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		
Packaging					
50pcs / box		50pcs / box			
Other accessories options					
See accessories section					
Notes:		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	M1NS2000-SK	M1NS2D03-SK	M1TS2L01-SK M1TS2L02-SK M1TS2L03-SK
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

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
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Other accessories options

See accessories section

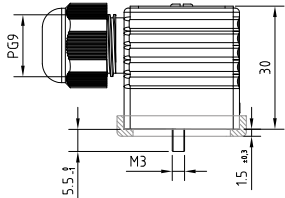
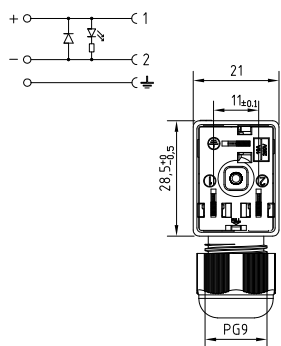
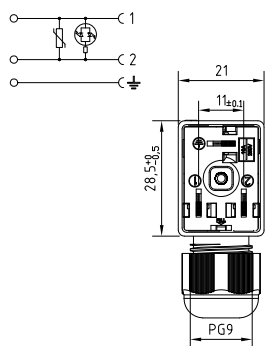
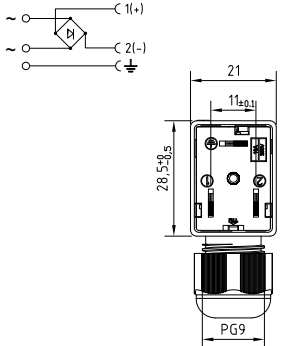
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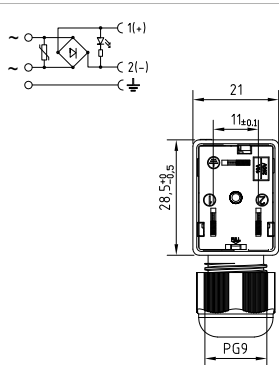
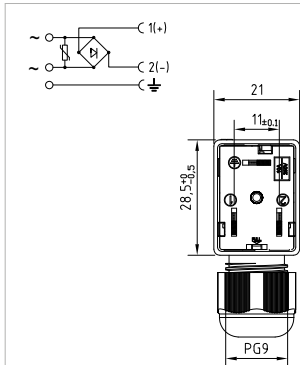
Connector available with different circuits.

Connector available with different led colour

VALVE CONNECTORS Field attachable connectors - Form B - Industrial



Technical drawing			
			
Product description			
Connector type	DIN valve connectors		DIN valve connectors
Conforms to	Industrial		Industrial
Construction type	B		B
Part number	M1TS2DL1-SK M1TS2DL2-SK M1TS2DL3-SK		M1TS2VL1-SK M1TS2VL2-SK M1TS2VL3-SK M1NS2R03-SK
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.
Contacts spacing	11mm		11mm
Number of contacts	2poles + P.E.		2poles + P.E.
Earth positioning	H.12 (turnable)		H.12 (turnable)
Housing colour	Transparent		Black
Housing height	30mm		30mm
Cable gland	SK - PG9		PG9
Gasket type	Profiled NBR gasket		Profiled NBR gasket
Technical data			
Type of termination	Screw contacts		Screw contacts
	0.5 N*m		0.5 N*m
Rated voltage	24V DC	115V DC	230V DC
Circuit type	Led + Diode(1A)		Bipolar Led + Varistor
Led colour	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
Packaging			
Qty/Box	50pcs / box		50pcs / box
Other accessories options			
See accessories section			
Notes:			
	Connector available with different led colour		Connector available with different led colour



Product description					
DIN valve connectors			DIN valve connectors		
Industrial			Industrial		
B			B		
M1NS2RV1-SK	M1NS2RV2-SK	M1NS2RV3-SK	M1TS2RL1-SK	M1TS2RL2-SK	M1TS2RL3-SK
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		
Technical data					
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		
Packaging					
50pcs / box			50pcs / box		
Other accessories options					
See accessories section					
Notes:			Connector available with different led colour		

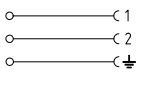
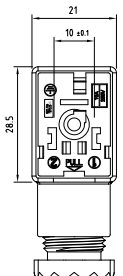

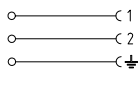
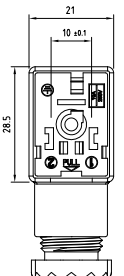

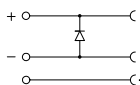
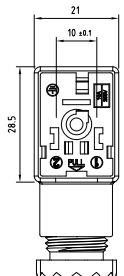
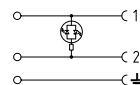
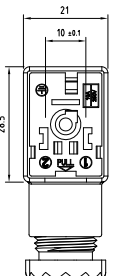
VALVE CONNECTORS

Field attachable connectors - Form B
EN175301-803(DIN43650)



Technical drawing			
Product description			
Connector type	DIN valve connectors	DIN valve connectors	
Conforms to	EN175301-803	EN175301-803	
Construction type	B	B	
Part number	M2NS2000	M2NF2000	
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 Connector without press-cable screw



  	  	 	 
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Product description

DIN valve connectors	DIN valve connectors	DIN valve connectors	DIN valve connectors
EN175301-803	EN175301-803	EN175301-803	EN175301-803
B	B	B	B
M2NS2000-UL Rectangular connector M2 series, UL approved, complete with gasket and fixing screw. Connector without electronic.	M2NS2000-ATEX Rectangular connector M2 series, ATEX conform, complete with gasket and fixing screw. Connector without electronic.	M2NS2D03 Rectangular connector M2 series complete with gasket and fixing screw. Connector with electronic.	M2TS2L01 M2TS2L02 M2TS2L03 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

Technical data

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

Packaging

50pcs / box	Singly packed in plastic bag	50pcs / box	50pcs / box
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Other accessories options

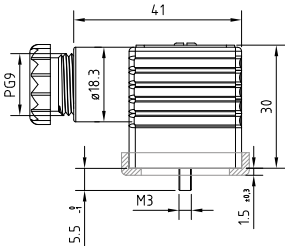
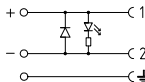
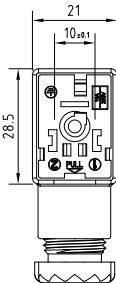
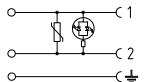
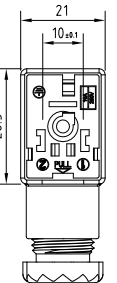
See accessories section

Notes: Connector available with different circuits.			Connector available with different led colour
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VALVE CONNECTORS

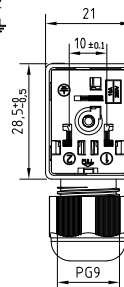
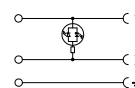
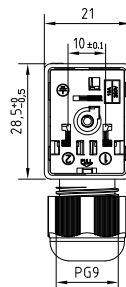
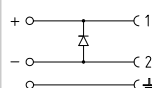
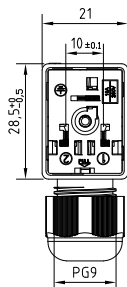
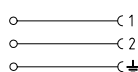
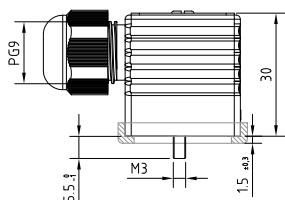
Field attachable connectors - Form B
EN175301-803(DIN43650)



Technical drawing								 				 			
Product description															
Connector type				DIN valve connectors				DIN valve connectors							
Conforms to				EN175301-803				EN175301-803							
Construction type				B				B							
Part number				M2TS2DL1 M2TS2DL2 M2TS2DL3				M2TS2VL1 M2TS2VL2 M2TS2VL3							
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							
Technical data															
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							
Packaging															
Qty/Box				50pcs / box				50pcs / box							
Other accessories options															
See accessories section															
Notes:				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	M2NS2000-SK	M2NS2D03-SK	M2TS2L01-SK M2TS2L02-SK M2TS2L03-SK
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
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Other accessories options

See accessories section

Notes:

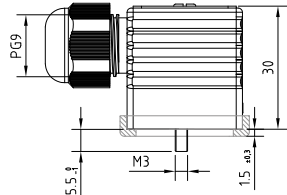
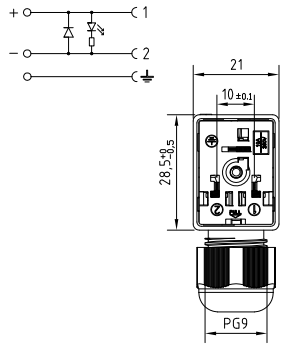
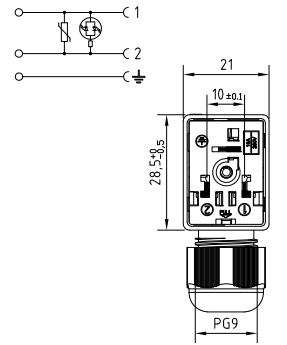
Connector available with different circuits.

Connector available with different led colour

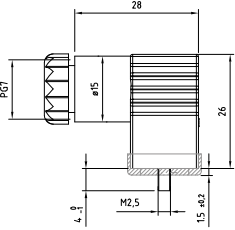
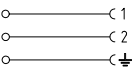
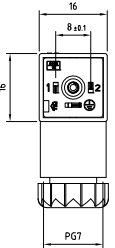
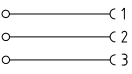
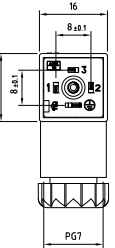
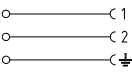
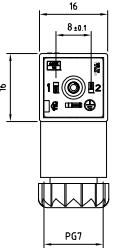
VALVE CONNECTORS

Field attachable connectors - Form B
EN175301-803(DIN43650)



Technical drawing			
			
Product description			
Connector type	DIN valve connectors		DIN valve connectors
Conforms to	EN175301-803		EN175301-803
Construction type	B		B
Part number	M2TS2DL1-SK M2TS2DL2-SK M2TS2DL3-SK		M2TS2VL1-SK M2TS2VL2-SK M2TS2VL3-SK
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
Technical data			
Type of termination	Screw contacts		Screw contacts
	0.5 N*m		0.5 N*m
Rated voltage	24V DC	115V DC	230V 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
Packaging			
Qty/Box	50pcs / box		50pcs / box
Other accessories options			
See accessories section			
Notes:			
	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	P1NZ2000	P1NZ3000	P1NZ2000-UL
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
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	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
Packaging			
Qty/Box	100pcs / box	100pcs / box	100pcs / box
Other accessories options			
See accessories section			
Notes:			
	Connector with Grey Housing: P/N P1GZ2000	Connector with Grey Housing: P/N P1GZ3000	Connector available with different circuits.

VALVE CONNECTORS

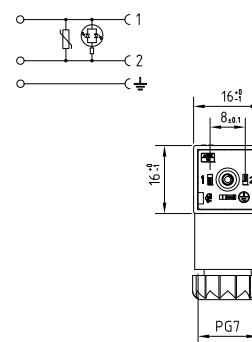
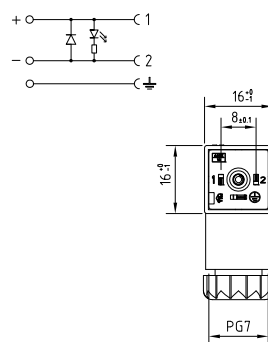
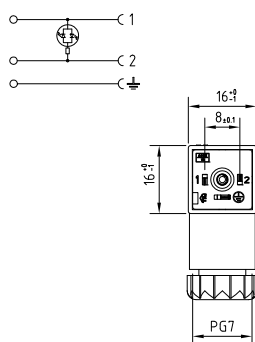
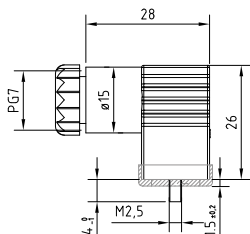
Field attachable connectors - Form C
EN175301-803(DIN43650)



Product description			
DIN valve connectors	DIN valve connectors	DIN valve connectors	DIN valve connectors
EN175301-803	EN175301-803	EN175301-803	EN175301-803
C	C	C	C
P1NZ3000-UL	P1NZ2000-ATEX	P1NZ3000-ATEX	P1NZ2D03
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
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
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
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.			



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	P1TZ2L01	P1TZ2L02	P1TZ2L03	P1TZ2DL1	P1TZ2DL2	P1TZ2DL3	P1TZ2VL1	P1TZ2VL2	P1TZ2VL3
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		
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Other accessories options

See accessories section

Notes:

Connector available with different led colour

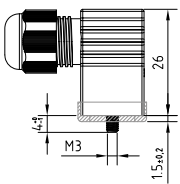
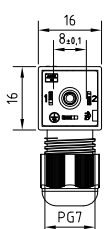
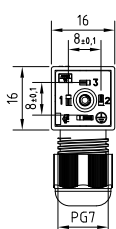
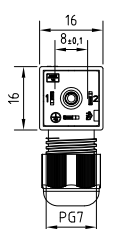
Connector available with different led colour

Connector available with different led colour

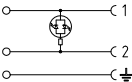
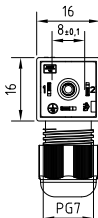
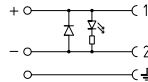
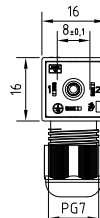
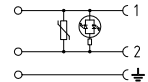
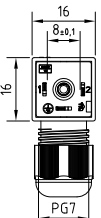
VALVE CONNECTORS

Field attachable connectors - Form C
EN175301-803(DIN43650)



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	P1NZ2000-SK	P1NZ3000-SK	P1NZ2D03-SK
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
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	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 circuits.	Connector available with different circuits.	

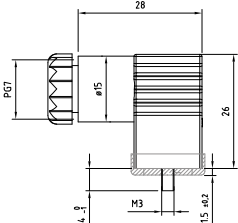
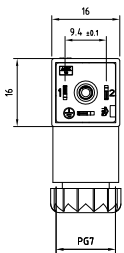
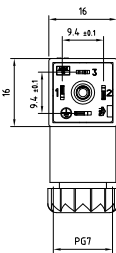
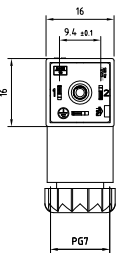


 	 	 							
Product description									
DIN valve connectors	DIN valve connectors	DIN valve connectors							
EN175301-803	EN175301-803	EN175301-803							
C	C	C							
P1TZ2L01-SK P1TZ2L02-SK P1TZ2L03-SK	P1TZ2DL1-SK P1TZ2DL2-SK P1TZ2DL3-SK	P1TZ2VL2-SK P1TZ2VL3-SK P1TZ2VL1-SK							
Square micro connector P1 series 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							
Technical data									
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							
Packaging									
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							

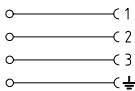
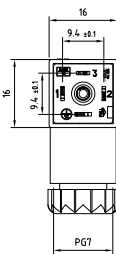

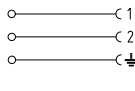
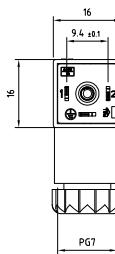

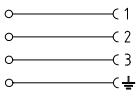
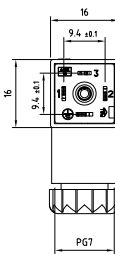

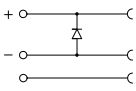
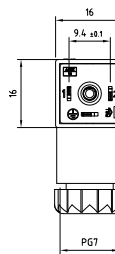
VALVE CONNECTORS

Field attachable connectors - Form C - Industrial



<div> <div>Technical drawing</div> <div>     </div> </div>																																																			
<div> <div>Product description</div> <table> <tr> <td>Connector type</td><td>DIN valve connectors</td><td>DIN valve connectors</td><td>DIN valve connectors</td></tr> <tr> <td>Conforms to</td><td>Industrial</td><td>Industrial</td><td>Industrial</td></tr> <tr> <td>Construction type</td><td>C</td><td>C</td><td>C</td></tr> <tr> <td>Part number</td><td>P2NZ2000</td><td>P2NZ3000</td><td>P2NZ2000-UL</td></tr> <tr> <td>Description</td><td>Square micro connector P2 series complete with gasket and fixing screw. Connector without electronic.</td><td>Square micro connector P2 series complete with gasket and fixing screw. Connector without electronic.</td><td>Square micro connector P2 series, UL approved, complete with gasket and fixing screw. Connector without electronic.</td></tr> <tr> <td>Contacts spacing</td><td>9.4mm</td><td>9.4mm</td><td>9.4mm</td></tr> <tr> <td>Number of contacts</td><td>2poles + P.E.</td><td>3poles + P.E.</td><td>2poles + P.E.</td></tr> <tr> <td>Earth positioning</td><td>H.6 (turnable)</td><td>H.6 (turnable)</td><td>H.6 (turnable)</td></tr> <tr> <td>Housing colour</td><td>Black</td><td>Black</td><td>Black</td></tr> <tr> <td>Housing height</td><td>26mm</td><td>26mm</td><td>26mm</td></tr> <tr> <td>Cable gland</td><td>PG7</td><td>PG7</td><td>PG7</td></tr> <tr> <td>Gasket type</td><td>Profiled NBR gasket</td><td>Profiled NBR gasket</td><td>Profiled NBR gasket</td></tr> </table> </div>				Connector type	DIN valve connectors	DIN valve connectors	DIN valve connectors	Conforms to	Industrial	Industrial	Industrial	Construction type	C	C	C	Part number	P2NZ2000	P2NZ3000	P2NZ2000-UL	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
Connector type	DIN valve connectors	DIN valve connectors	DIN valve connectors																																																
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<div> <div>Other accessories options</div> <p>See accessories section</p> </div>																																																			
<div> <div>Notes:</div> <table> <tr> <td>Connector with Grey Housing: P/N P2GZ2000</td><td>Connector with Grey Housing: P/N P2GZ3000</td><td colspan="2">Connector available with different circuits.</td></tr> </table> </div>				Connector with Grey Housing: P/N P2GZ2000	Connector with Grey Housing: P/N P2GZ3000	Connector available with different circuits.																																													
Connector with Grey Housing: P/N P2GZ2000	Connector with Grey Housing: P/N P2GZ3000	Connector available with different circuits.																																																	



  	  	  	 
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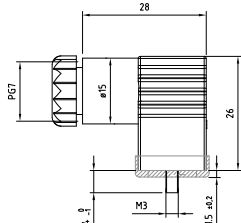
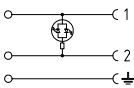
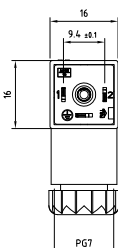
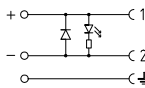
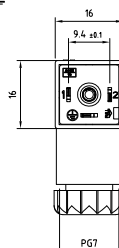
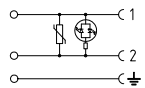
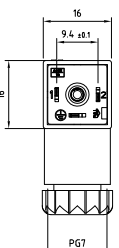
Product description

DIN valve connectors	DIN valve connectors	DIN valve connectors	DIN valve connectors
Industrial	Industrial	Industrial	Industrial
C	C	C	C
P2NZ3000-UL	P2NZ2000-ATEX	P2NZ3000-ATEX	P2NZ2D03
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.			

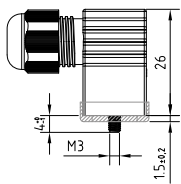
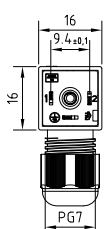
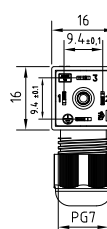
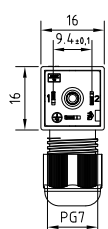
VALVE CONNECTORS

Field attachable connectors - Form C - Industrial



Technical drawing			
	 		 
 			
Product description			
Connector type	DIN valve connectors		DIN valve connectors
Conforms to	Industrial		Industrial
Construction type	C		C
Part number	P2TZ2L01	P2TZ2L02	P2TZ2L03
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	PG7		PG7
Gasket type	Profiled NBR gasket		Profiled NBR gasket
Technical data			
Type of termination	Screw contacts		Screw contacts
Contact screw torque	0.25 N*m		0.25 N*m
Rated voltage	24V AC/DC	115V AC/DC	230V AC/DC
Circuit type	Bipolar led		Led + Diode(1A)
Led colour	Red		Red
Suitable cable	ø cable 4-6mm		ø cable 4-6mm
Central fixing screw	M3 L=28mm		M3 L=28mm
Central fixing screw material	Iron+Zinc plated		Iron+Zinc plated
Central screw torque	0.5 N*m		0.5 N*m
Packaging			
Qty/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

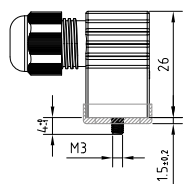
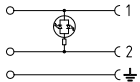
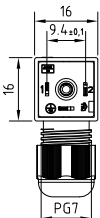
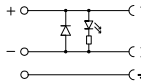
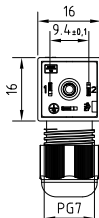
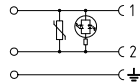
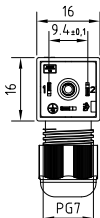


Technical drawing			
			
Product description			
Connector type	DIN valve connectors	DIN valve connectors	DIN valve connectors
Conforms to	Industrial	Industrial	Industrial
Construction type	C	C	C
Part number	P2NZ2000-SK	P2NZ3000-SK	P2NZ2D03-SK
Description	Square micro connector P2 series complete with 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			
Notes:			
	Connector available with different circuits.	Connector available with different circuits.	

VALVE CONNECTORS

Field attachable connectors - Form C - Industrial



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				P2TZ2L01-SK P2TZ2L02-SK P2TZ2L03-SK				P2TZ2DL1-SK P2TZ2DL2-SK P2TZ2DL3-SK				P2TZ2VL1-SK P2TZ2VL2-SK P2TZ2VL3-SK									
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.									
Contacts spacing				9.4mm				9.4mm				9.4mm									
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				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									
				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 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																					
Notes:				Connector available with different led colour				Connector available with different led colour				Connector available with different led colour									

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.

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.

SERIES

CG1 : EN175301-803 form A (18mm).
CG61 : EN175301-803 form A (18mm) with MALE contacts.
CG5 : form A (18mm) height ~33mm.
CG8 : EN175301-803 form A (18mm) EXIT CABLE 180°.
CG8B : 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.

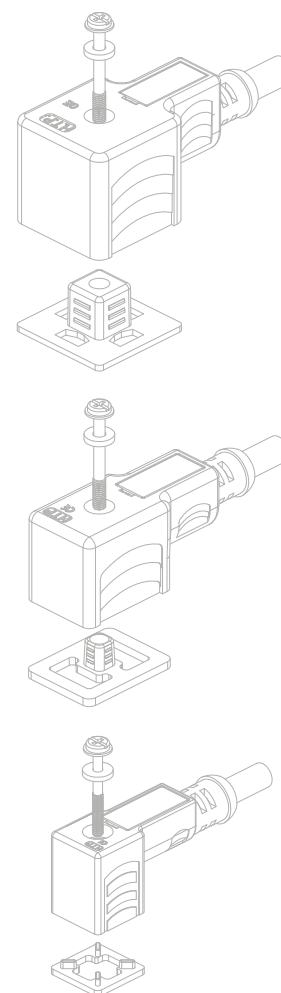
CABLE LENGTH

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

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

SOME VARIABLES

L : PROFILED GASKET. SS : STAINLESS STEEL SCREW. Y : WITHOUT H.T.P. LOGO. UL : UL approved (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.



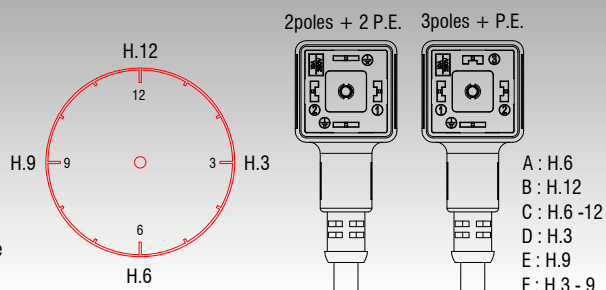
EARTH PIN POSITION

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

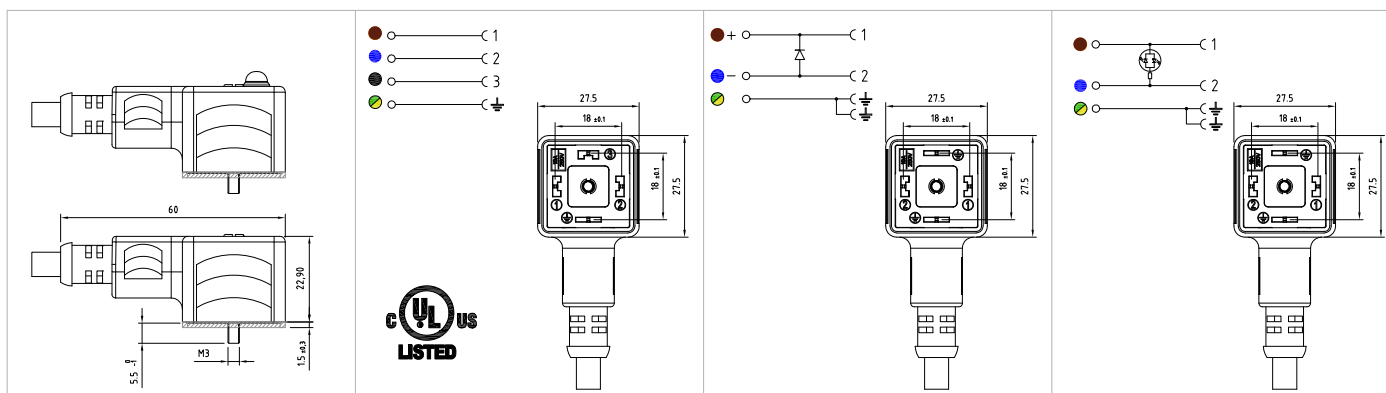
3 P. + P.E.:
1 : BROWN
2 : BLUE
3 : BLACK
P.E. : YELLOW-GREEN

VALVE CONNECTORS

Moulded cable connectors - Form A
EN175301-803(DIN43650)



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	CG1N02000C021	CG1N03000AB21	CG1N02000C161-UL
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
Technical data			
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 ²	4G0.75mm ²	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
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

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	CG1N03000A181-UL	CG1N02D03C021	CG1N02L01C021 CG1N02L02C021 CG1N02L03C021
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

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 ULstyle21179	PVC/PVC IEC332-1 H05VVF	PVC/PVC IEC332-1 H05VVF		
Cable jacket colour	Black	Black	Black		
No. Conductors / Section	4G18AWG	3G0.75mm ²	3G0.75mm ²		
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		

Packaging

Qty/Box	Variable according cable length.	Variable according cable length.
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Other accessories options

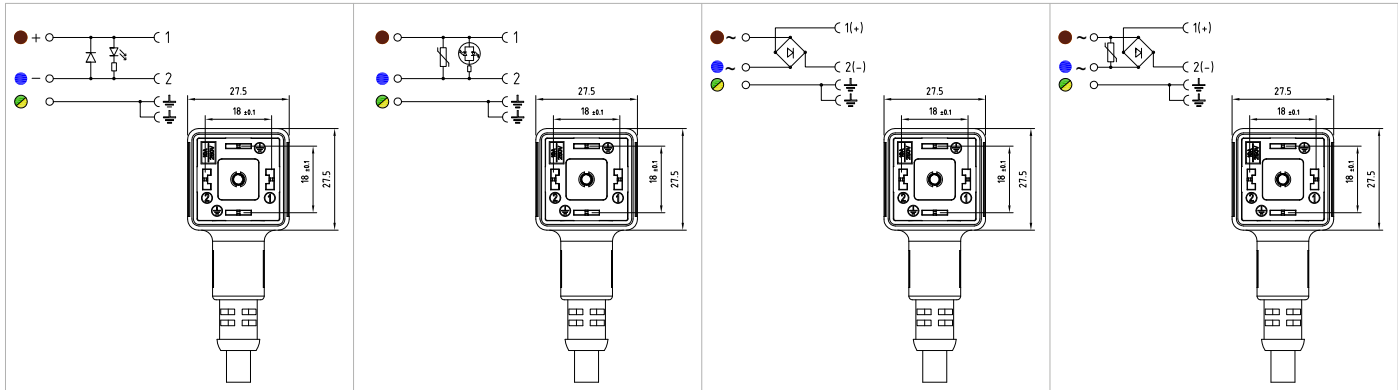
See accessories section

Notes:

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

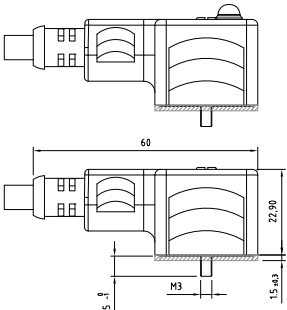
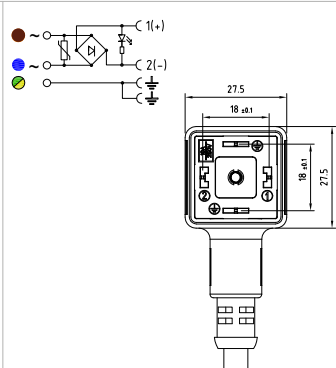
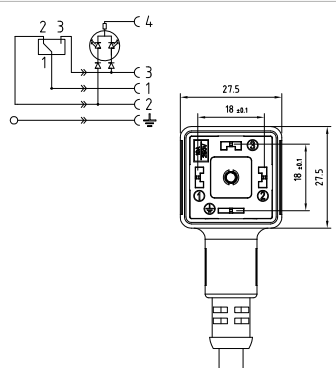
VALVE CONNECTORS

Moulded cable connectors - Form A
EN175301-803(DIN43650)



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																	
CG1N02DL1C021				CG1N02DL2C021		CG1N02DL3C021		CG1N02VL1C021				CG1N02VL2C021		CG1N02VL3C021		CG1N02R03C021				CG1N02RV1C021		CG1N02RV2C021		CG1N02RV3C021					
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											
3G0.75mm²						3G0.75mm²						3G0.75mm²						3G0.75mm²											
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 features: See the cable codification scheme page See the cables list section																													

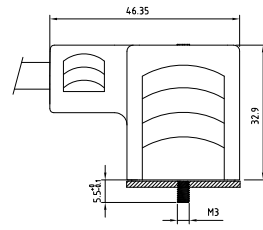
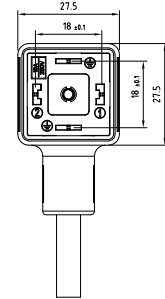
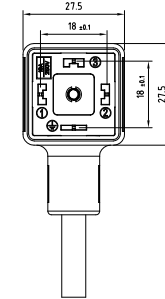
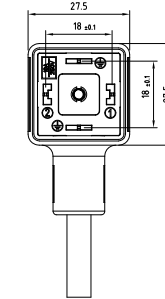


							
Product description							
Connector type		DIN valve connectors		DIN valve connectors			
Conforms to		EN175301-803		EN175301-803			
Construction type		A		A			
Part number		CG1N02RL1C021 CG1N02RL2C021 CG1N02RL3C021		CG1N03Q01AB21 CG1N03Q01AB21 CG1N03Q01AB21			
Description		Square connector CG1 series 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			
Technical data							
Rated voltage		24V AC	115V AC	230V AC	24V DC	115V DC	230V DC
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			
Packaging							
Qty/Box		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				Connector available with different led connection: Q8 circuit (Green pin 2; Red pin 3) Q1 circuit (Yellow pin 2; Green pin 3)			

VALVE CONNECTORS

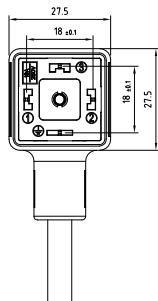
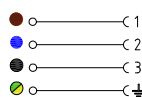
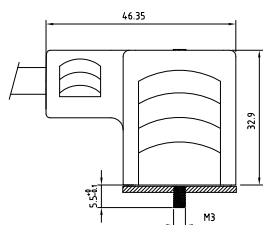
Moulded cable connectors - Form A
EN175301-803(DIN43650)



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	CG5N02000C021	CG5N03000AB21	CG5N02000C161
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
Technical data			
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 ²	4G0.75mm ²	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
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



Product description

Connector type	DIN valve connectors		
Conforms to	EN175301-803		
Construction type	A		
Part number	CG5N03000A181-UL		
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.		
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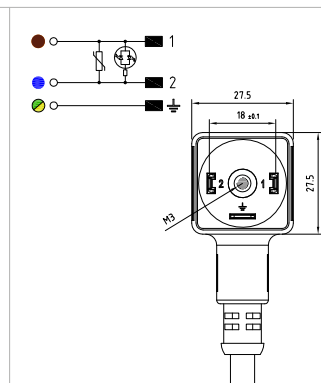
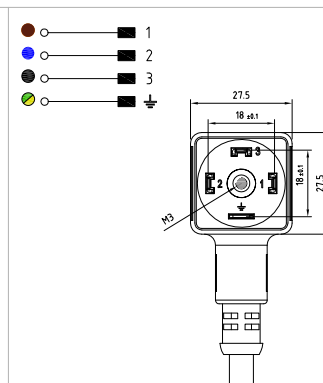
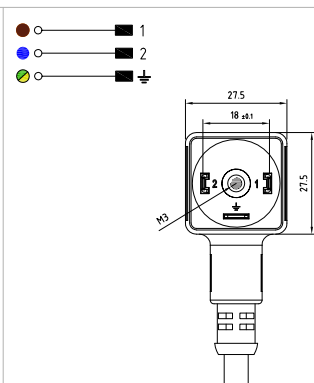
Other accessories options

See accessories section

Notes:

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

Moulded cable connectors - Form A
EN175301-803(DIN43650)



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	CBG1N02000A021	CBG1N03000AB21	CBG1N02VL1C021 CBG1N02VL2C021 CBG1N02VL3C021
Description	Square connector CBG1 series with male contacts. Connector without electronic.	Square connector CBG1 series with male contacts. Connector without electronic.	Square connector CBG1 series with male contacts. 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	-		-

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	3G0.75mm²	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		

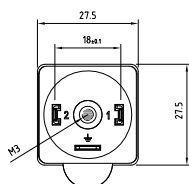
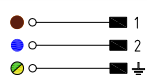
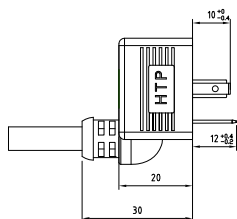
Qty/Box	Variable according cable length.	Variable according cable length.	Variable according cable length.
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See accessories section

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
Conforms to	EN175301-803
Construction type	A
Part number	CBGBN02000A021
Description	Square connector CBGB1 (TOP EXIT) series with male contacts. 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 ²
Conductor colours	Brown; Blue; Yellow-Green
Cable diameter	ø6.7mm (±0.3)
Cable length	1m

Packaging

Qty/Box	Variable according cable length.
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Other accessories options

See accessories section

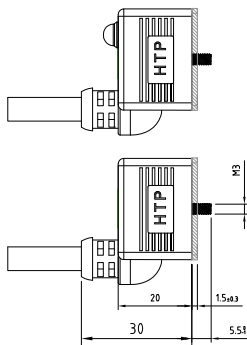
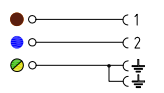
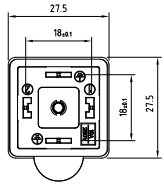
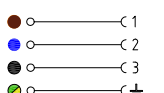
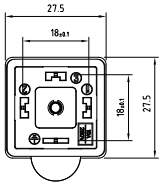
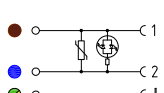
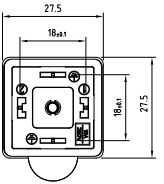
Notes:

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

VALVE CONNECTORS

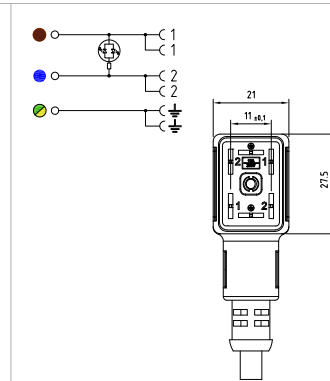
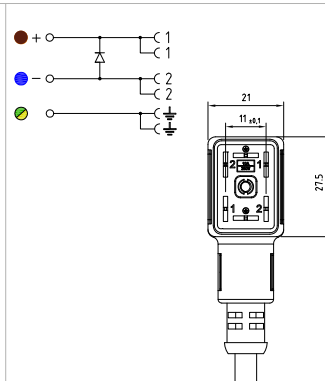
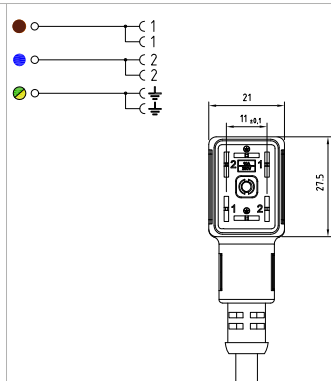
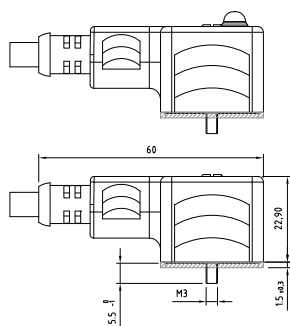
Moulded cable connectors - Form A
EN175301-803(DIN43650)



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	CGBN02000C021	CGBN03000AB21	CGBN02VL1C021 CGBN02VL2C021 CGBN02VL3C021	
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	3G0.75mm ²	4G0.75mm ²	3G0.75mm ²	
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



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	CM1N02000C021	CM1N02D03C021	CM1N02L01C021 CM1N02L02C021 CM1N02L03C021
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	3G0.75mm ²	3G0.75mm ²	3G0.75mm ²		
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.
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Other accessories options

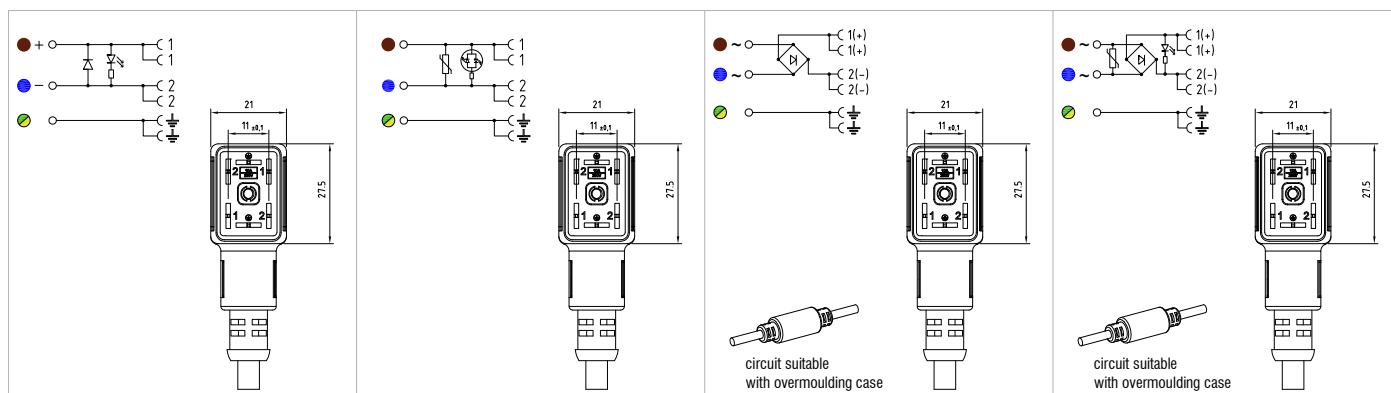
See accessories section

Notes:

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

VALVE CONNECTORS

Moulded cable connectors - Form B - Industrial



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

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 ²			3G0.75mm ²			3G0.75mm ²			3G0.75mm ²
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

Qty/Box	Variable according cable length.	Variable according cable length.	Variable according cable length.
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Other accessories options

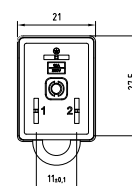
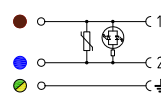
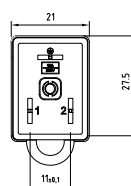
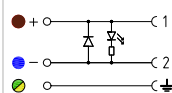
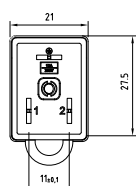
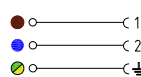
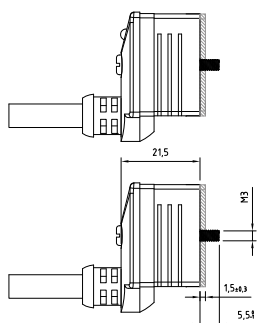
See accessories section

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	Industrial	Industrial	Industrial
Construction type	B	B	B
Part number	CM1BN02000B021	CM1BN02DL1B021 CM1BN02DL2B021 CM1BN02DL3B021	CM1BN02VL1B021 CM1BN02VL2B021 CM1BN02VL3B021
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 ²	3G0.75mm ²			3G0.75mm ²		
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.
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Other accessories options

See accessories section

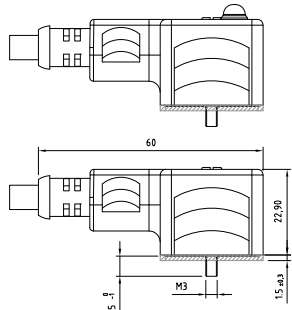
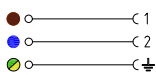
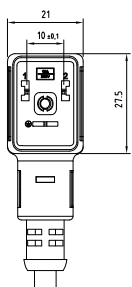
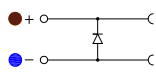
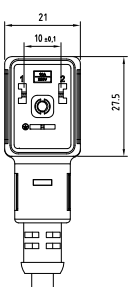
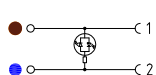
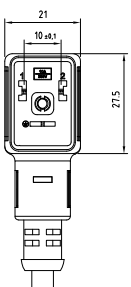
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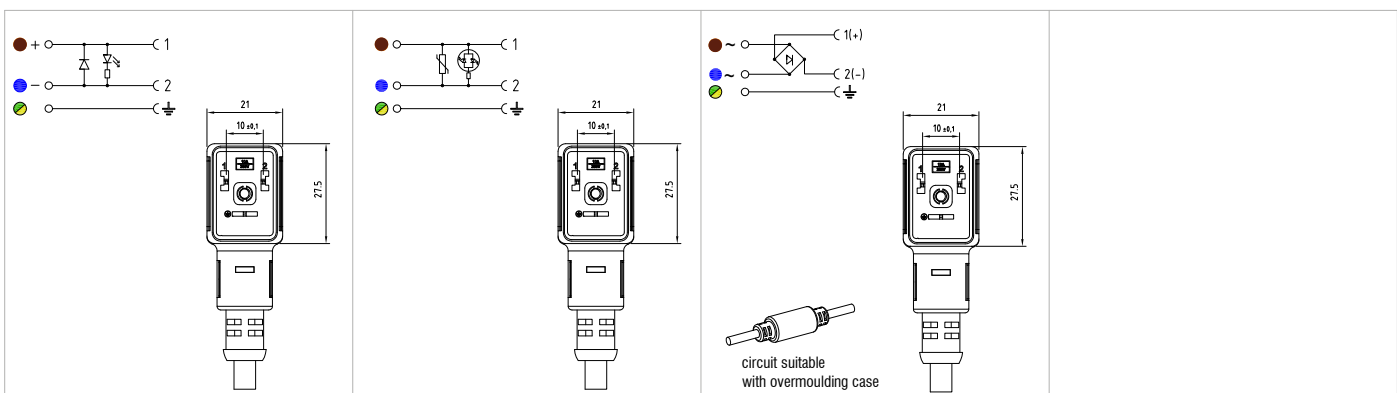
Connector available with different features:
See the cable codification scheme page
See the cables list section

VALVE CONNECTORS

Moulded cable connectors - Form B
EN175301-803(DIN43650)



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	CM2N02000A021		CM2N02D03A021		CM2N02L01A021 CM2N02L02A021 CM2N02L03A021	
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	
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 feautres: See the cable codification scheme page See the cables list section						



Product description

DIN valve connectors	DIN valve connectors	DIN valve connectors	
EN175301-803	EN175301-803	EN175301-803	
B	B	B	
CM2N02DL1A021 CM2N02DL2A021 CM2N02DL3A021	CM2N02VL1A021 CM2N02VL2A021 CM2N02VL3A021	CM2N02R03A021	
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	

Technical data

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

Packaging

Qty/Box	Variable according cable length.	Variable according cable length.	
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Other accessories options

See accessories section

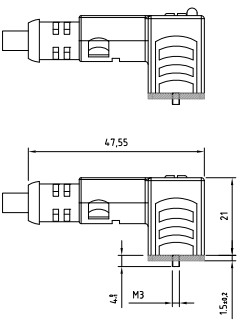
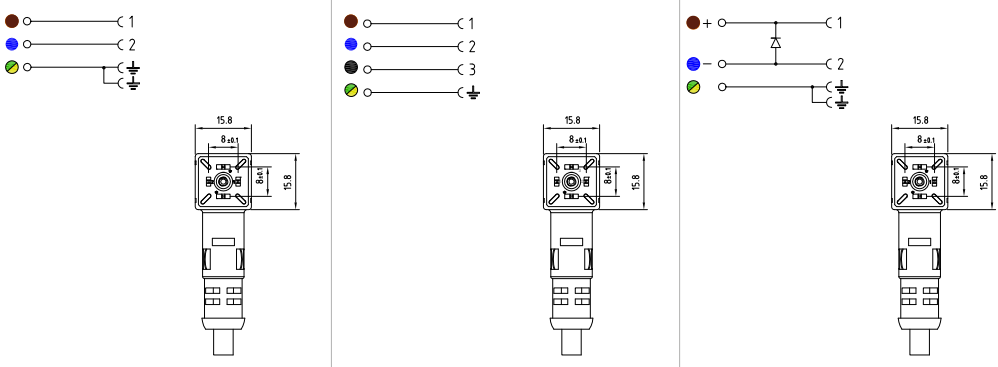
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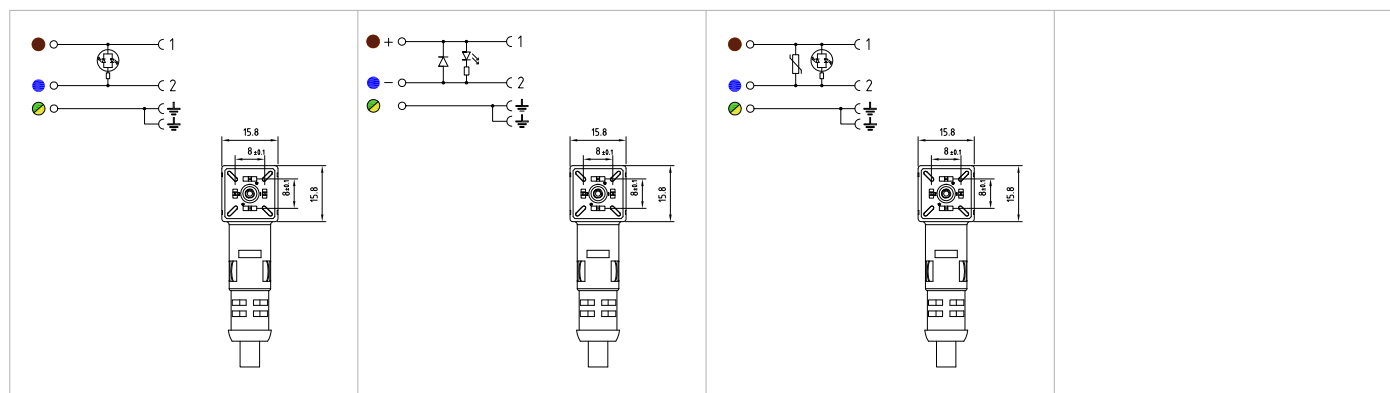
Connector available with different features:
See the cable codification scheme page
See the cables list section

VALVE CONNECTORS

Moulded cable connectors - Form C
EN175301-803(DIN43650)



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	CP1N02000C011	CP1N03000AB11	CP1N02D03C011
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
Technical data			
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 ²	4G0.5mm ²	3G0.5mm ²
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
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

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			
3G0.5mm ²			3G0.5mm ²			3G0.5mm ²			
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.	
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Other accessories options

See accessories section

Notes:

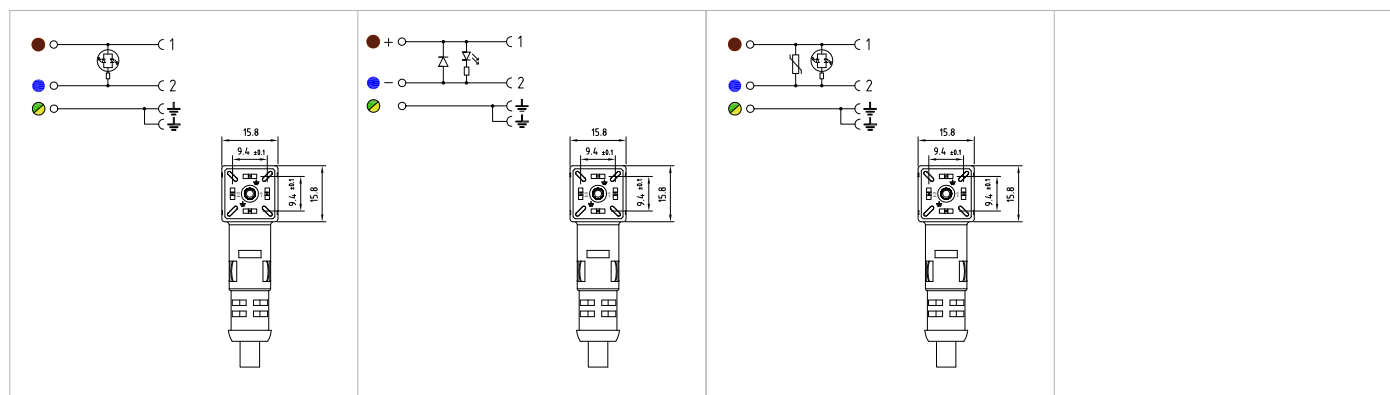
Connector available with different feautres:
See the cable codification scheme page
See the cables list section

VALVE CONNECTORS

Moulded cable connectors - Form C - Industrial



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	CP2N02000C011	CP2N03000AB11	CP2N02D03C011
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
Technical data			
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
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

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	

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			
M3 L=22.5mm			M3 L=22.5mm			M3 L=22.5mm			
Iron+Zinc plated			Iron+Zinc plated			Iron+Zinc plated			
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			
Black			Black			Black			
3G0.5mm ²			3G0.5mm ²			3G0.5mm ²			
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.	
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Other accessories options

See accessories section

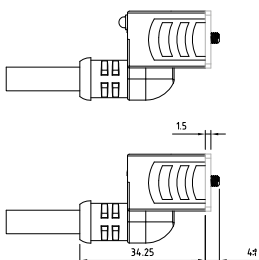
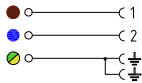
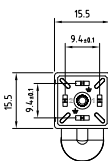

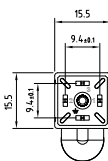
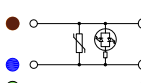
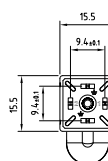
Notes:

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

VALVE CONNECTORS

Moulded cable connectors - Form C - Industrial



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	CP2CN02000C011	CP2CN03000AB11	CP2CN02VL1C011	CP2CN02VL2C011 CP2CN02VL3C011
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	
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=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	3G0.5mm ²	4G0.5mm ²	3G0.5mm ²	
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	
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: See the cable codification scheme page 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).

SERIES | 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.

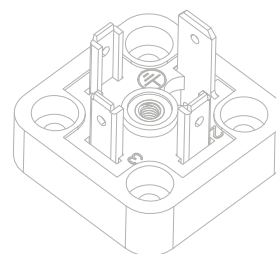
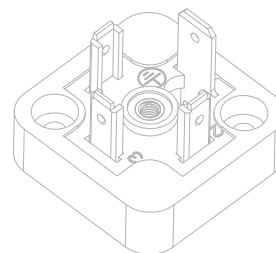
UL90: UL APPROVED +90°C

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.



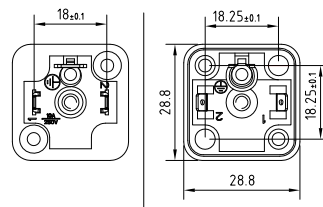
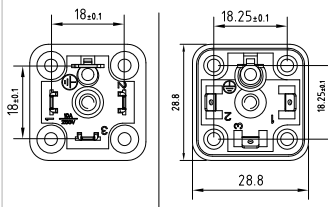
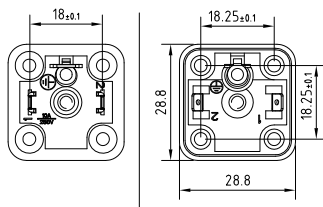
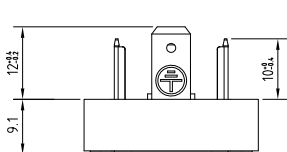
VALVE CONNECTORS
Bases Form A - EN175301-803(DIN43650)



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	BG0N02000	BG0N03000
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
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 Closed	M3 Closed
Packaging		
Qty/Box	200pcs / box	200pcs / box
Other accessories options		
See accessories section		
Notes:		
	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	BG1N02000	BG1N03000	BG5N02000
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
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Other accessories options

See accessories section

Notes:

Base in Grey colour: P/N BG1G02000

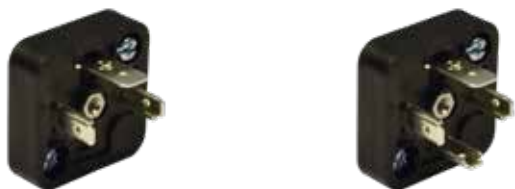
Base in Grey colour: P/N BG1G03000

Base in Grey colour: P/N BG5G02000

Bases Form A - EN175301-803(DIN43650)



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	BG5N03000			BG1N02000-UL		BG1N03000-UL	
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	
Technical data							
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	
Packaging							
Qty/Box	200pcs / box			200pcs / box		200pcs / box	
Other accessories options							
See accessories section							
Notes:							
		Base in Grey colour: P/N BG5G03000					



Product description			
Square base for DIN valve connectors	Square base for DIN valve connectors		
EN175301-803	EN175301-803		
A	A		
BG5N02000-UL	BG5N03000-UL		
Square base connector BG5 series, UL approved, complete with gasket and fixing screws.	Square base connector BG5 series, UL approved, complete with gasket and fixing screws.		
18mm	18mm		
2poles + P.E.	3poles + P.E.		
-	-		
Black	Black		
9.1mm	9.1mm		
Flat NBR gasket	Flat NBR gasket		
Technical data			
250V AC/ 300VDC	250V AC/ 300VDC		
N°2	N°2		
ø3.2mm	ø3.2mm		
Iron+Zinc plated	Iron+Zinc plated		
M3 L=10mm	M3 L=10mm		
0.5 N*m	0.5 N*m		
Iron+Zinc plated	Iron+Zinc plated		
M3 L=4.8mm	M3 L=4.8mm		
0.5 N*m	0.5 N*m		
M3 Open	M3 Open		
Packaging			
200pcs / box	200pcs / box		
Other accessories options			
See accessories section			
Notes:			

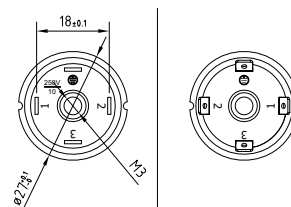
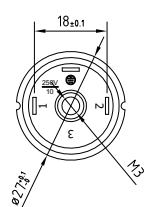
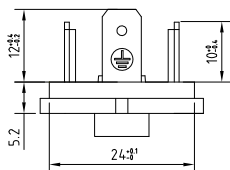
VALVE CONNECTORS
Bases Form A - EN175301-803(DIN43650)



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	BG4N02000	BG4N03000
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



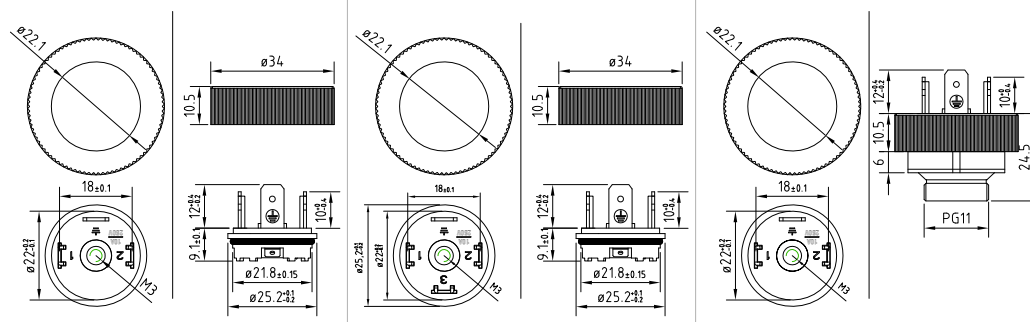
Product description

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	BG7N02000	BG7N03000
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

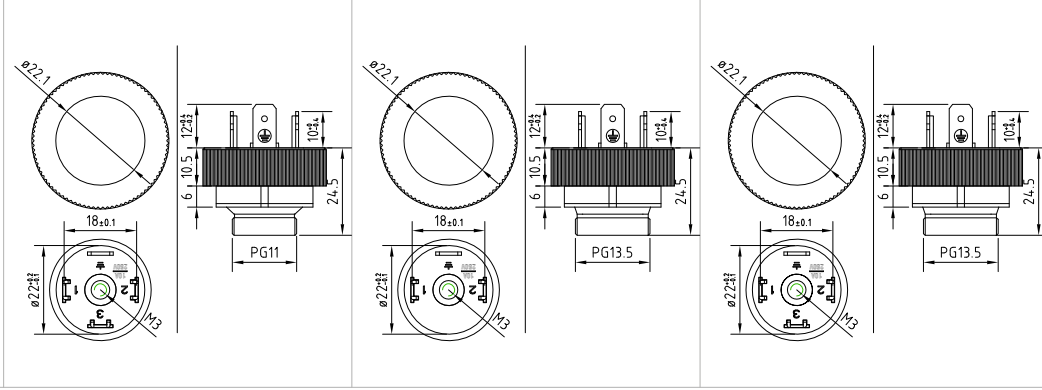
VALVE CONNECTORS

Bases Form A - EN175301-803(DIN43650)

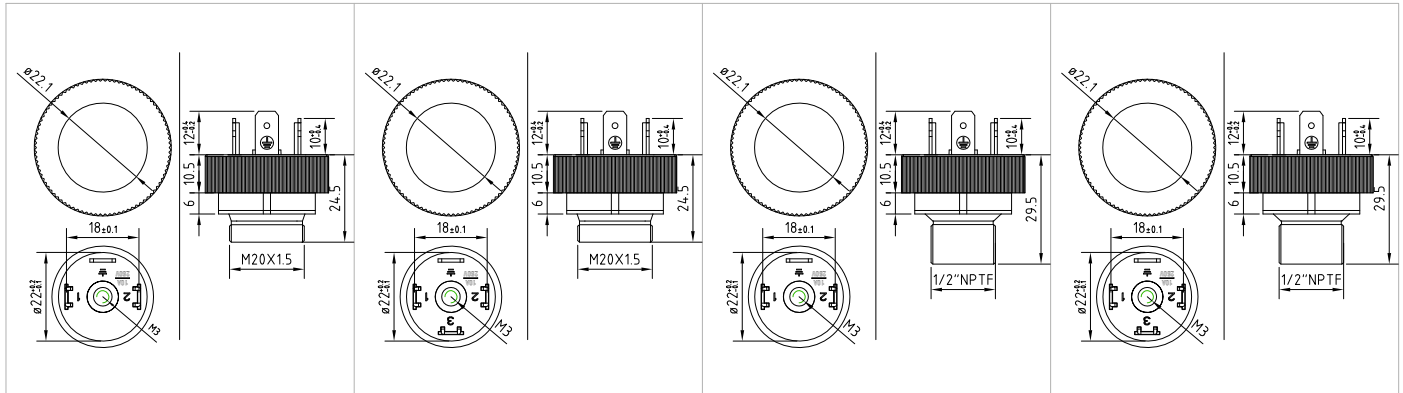


Technical drawing			
			
Product description			
Connector type	Circular base for DIN valve connectors	Circular base for DIN valve connectors	Circular base for DIN valve connectors
Conforms to	EN175301-803	EN175301-803	EN175301-803
Construction type	A	A	A
Part number	BGRN02000	BGRN03000	BGRN02000-PG11
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	-	-	-
Technical data			
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
Packaging			
Qty/Box	200pcs / box	200pcs / box	200pcs / box
Other accessories options			
See accessories section			
Notes:			
	Base in Grey colour: P/N BGRG02000	Base in Grey colour: P/N BGRG03000	



Technical drawing			
			
Product description			
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	BGRN03000-PG11	BGRN02000-PG13.5	BGRN03000-PG13.5
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	-	-	-
Technical data			
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
Packaging			
Qty/Box	200pcs / box	200pcs / box	200pcs / box
Other accessories options			
See accessories section			
Notes:			

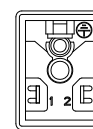
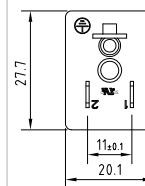
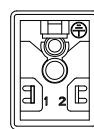
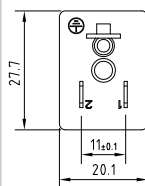
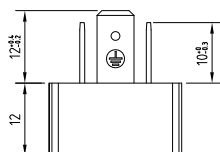
VALVE CONNECTORS Bases Form A - EN175301-803(DIN43650)



Product description			
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
BGRN02000-M20	BGRN03000-M20	BGRN02000-1/2NPTF	BGRN03000-1/2NPTF
Circular base connector BGR series with plastic fixing nut M27X1.5 + M20x1.5 reduction. Base without fixing screws	Circular base connector BGR series with plastic fixing nut M27X1.5 + M20x1.5 reduction. Base without fixing screws	Circular base connector BGR series with plastic fixing nut M27X1.5 + 1/2NPTF reduction. Base without fixing screws	Circular base connector BGR series with plastic fixing nut M27X1.5 + 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)
-	-	-	-
Technical data			
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
Packaging			
200pcs / box	200pcs / box	200pcs / box	200pcs / box
Other accessories options			
See accessories section			
Notes:			



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	BM1N02000	BM1N02000-UL
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
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Other accessories options

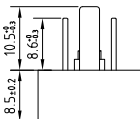
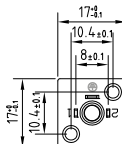
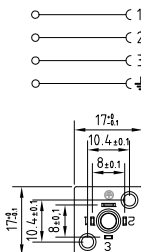
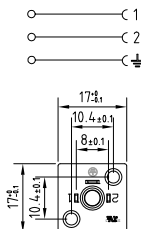

See accessories section

Notes:

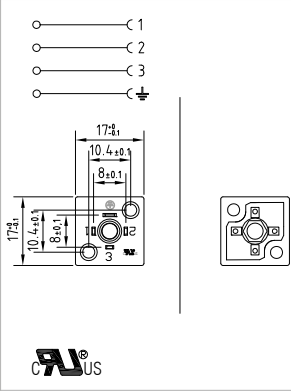
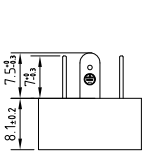
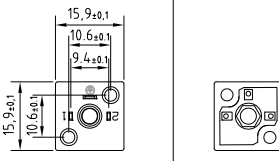
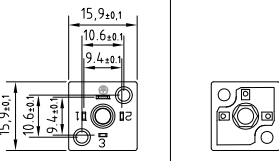
Base in Grey colour: P/N BM1G02000

Bases Form C - EN175301-803(DIN43650)



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	C		C		C
Part number	BP1N02000		BP1N03000		BP1N02000-UL
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
Technical data					
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
Packaging					
Qty/Box	200pcs / box		200pcs / box		200pcs / box
Other accessories options					
to be ordered separately see page					
Notes:		Base in Grey colour: P/N BP1G02000	Base in Grey colour: P/N BP1G03000		

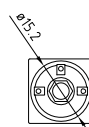
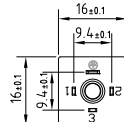
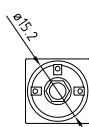
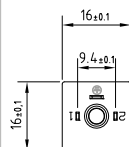
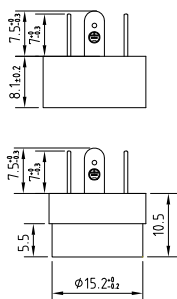


	<p>Technical drawing</p> 		
<p>Square base for DIN valve connectors EN175301-803</p>	<p>Product description</p>	<p>Square base for DIN valve connectors</p>	<p>Square base for DIN valve connectors</p>
<p>C</p>	<p>Connector type</p>	<p>Industrial</p>	<p>Industrial</p>
<p>BP1N03000-UL</p>	<p>Construction type</p>	<p>C</p>	<p>C</p>
<p>Square base connector BP1 series, UL approved, complete with gasket and fixing screws.</p>	<p>Part number</p>	<p>BP2N02000</p>	<p>BP2N03000</p>
<p>8mm</p>	<p>Description</p>	<p>Square base connector BP2 series complete with gasket and fixing screws.</p>	<p>Square base connector BP2 series complete with gasket and fixing screws.</p>
<p>3poles + P.E.</p>	<p>Contacts spacing</p>	<p>9.4mm</p>	<p>9.4mm</p>
<p>-</p>	<p>Number of contacts</p>	<p>2poles + P.E.</p>	<p>3poles + P.E.</p>
<p>Black</p>	<p>Earth positioning</p>	<p>-</p>	<p>-</p>
<p>8.5mm</p>	<p>Base colour</p>	<p>Black</p>	<p>Black</p>
<p>Flat NBR gasket</p>	<p>Base height</p>	<p>8.5mm</p>	<p>8.5mm</p>
<p></p>	<p>Gasket type</p>	<p>Flat NBR gasket</p>	<p>Flat NBR gasket</p>
<p></p>	<p>Technical data</p>	<p></p>	<p></p>
<p>250V AC/ 300VDC</p>	<p>Rated voltage</p>	<p>250V AC/ 300VDC</p>	<p>250V AC/ 300VDC</p>
<p>N°2</p>	<p>Number of fixing holes</p>	<p>N°2</p>	<p>N°2</p>
<p>ø3mm</p>	<p>Diameter of fixing holes</p>	<p>ø3mm</p>	<p>ø3mm</p>
<p>Iron+Zinc plated</p>	<p>Fixing screws material (x1)</p>	<p>Iron+Zinc plated</p>	<p>Iron+Zinc plated</p>
<p>M2.5 L=8mm</p>	<p>Fixing screws length (x1)</p>	<p>M3 L=8mm</p>	<p>M3 L=8mm</p>
<p>0.4 N*m</p>	<p>Fixing screws torque (x1)</p>	<p>0.5 N*m</p>	<p>0.5 N*m</p>
<p>Iron+Zinc plated</p>	<p>Earth fixing screw material</p>	<p>Iron+Zinc plated</p>	<p>Iron+Zinc plated</p>
<p>-</p>	<p>Earth fixing screws length</p>	<p>-</p>	<p>-</p>
<p>-</p>	<p>Earth screw torque</p>	<p>-</p>	<p>-</p>
<p>M2.5 Open</p>	<p>Central nut type</p>	<p>M3 Open</p>	<p>M3 Open</p>
<p></p>	<p></p>	<p></p>	<p></p>
<p></p>	<p></p>	<p></p>	<p></p>
<p></p>	<p></p>	<p></p>	<p></p>
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VALVE CONNECTORS Bases Form C - Industrial



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
BP2N02000-UL	BP2N03000-UL	BP2RN02000	BP2RN03000
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: P/N BP2RN02000-PG11 P/N BP2RN02000-PG13.5 P/N BP2RN02000-M20 P/N BP2RN02000-1/2NPTF	Base available with different reductions: P/N BP2RN03000-PG11 P/N BP2RN03000-PG13.5 P/N BP2RN03000-M20 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	BP3N02000	BP3N03000	
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	
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Other accessories options

to be ordered separately see page

Notes:

Base in Grey colour: P/N BP3G02000

Base in Grey colour: P/N BP3G03000

VALVE CONNECTORS

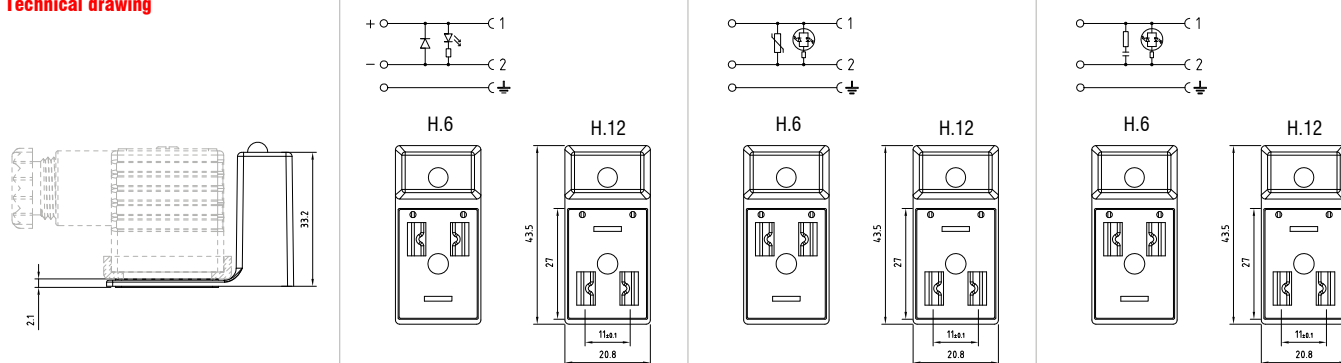
Adapters bases for DIN Valve connectors - Form A
EN175301-803(DIN43650)



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			AG1N02DL1 AG1N02DL2 AG1N02DL3			AG1N02VL1 AG1N02VL2 AG1N02VL3			AG1N02FL1 AG1N02FL2 AG1N02FL3		
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											
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											
-											
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



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)	AM1N02DL1A AM1N02DL2A AM1N02DL3A			AM1N02VL1A AM1N02VL2A AM1N02VL3A			AM1N02FL1A AM1N02FL2A AM1N02FL3A		
Part number (P.E. H.12)	AM1N02DL1B AM1N02DL2B AM1N02DL3B			AM1N02VL1B AM1N02VL2B AM1N02VL3B			AM1N02FL1B AM1N02FL2B AM1N02FL3B		
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		
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Other accessories options

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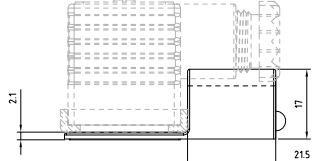
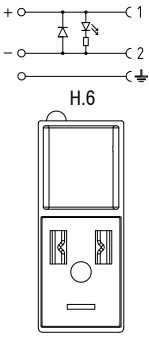
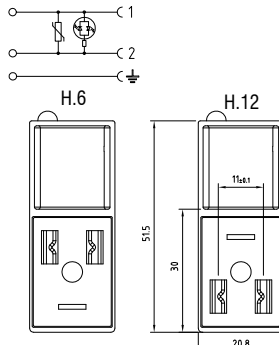
Notes:

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

VALVE CONNECTORS

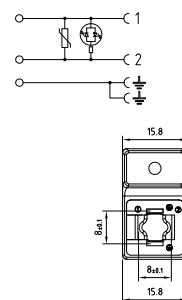
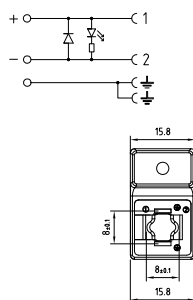
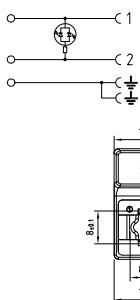
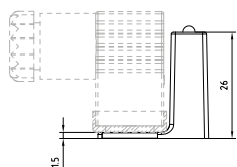
Adapters bases for DIN Valve connectors - Form B
Industrial



Technical drawing							
Product description		Adapter base for DIN valve connectors		Adapter base for DIN valve connectors		Adapter base for DIN valve connectors	
Connector type		Industrial		Industrial		Industrial	
Conforms to		B		B		B	
Construction type		B		B		B	
Part number (P.E. H.6)		AM1N02DL1A-180		AM1N02DL2A-180		AM1N02DL3A-180	
Part number (P.E. H.12)		AM1N02DL1B-180		AM1N02DL2B-180		AM1N02DL3B-180	
Description		Rectangular straight 180° adapter AM1 series		Rectangular straight 180° adapter AM1 series		Rectangular straight 180° 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		24V DC		115V DC		230V DC	
Rated voltage		24V AC/DC		115V AC/DC		230V AC/DC	
Circuit type		Led + Diode(1A)		Bipolar Led + Varistor			
Led colour		Red		Red			
Packaging		1pc / bag		1pc / bag			
Qty/Bag		1pc / bag		1pc / bag			
Other accessories options							
-							
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			Adapter base for DIN valve connectors		
Conforms to	EN175301-803			EN175301-803			EN175301-803		
Construction type	C			C			C		
Part number	AP1N02L01	AP1N02L02	AP1N02L03	AP1N02DL1	AP1N02DL2	AP1N02DL3	AP1N02VL1	AP1N02VL2	AP1N02VL3
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		

Technical data

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		

Packaging

Qty/Bag	1pc / bag			1pc / bag			1pc / bag		
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Other accessories options

-									
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Notes:

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

VALVE CONNECTORS

Adapters bases for DIN Valve connectors - Form C
Industrial



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			Industrial			Industrial			Industrial		
Construction type			C			C			C		
Part number			AP2N02L01 AP2N02L02 AP2N02L03			AP2N02DL1 AP2N02DL2 AP2N02DL3			AP2N02VL1 AP2N02VL2 AP2N02VL3		
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		
Technical data											
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		
Packaging											
Qty/Bag			1pc / bag			1pc / bag			1pc / bag		
Other accessories options											
-											
Notes:											
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

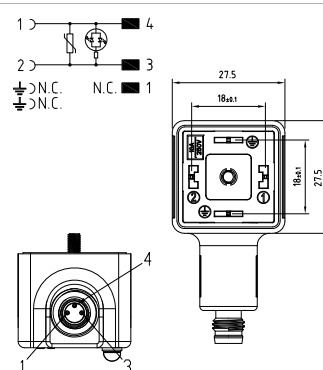
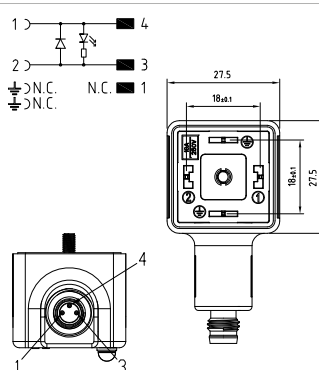
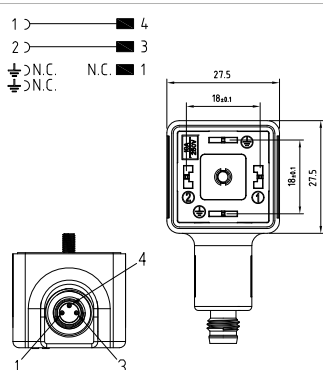
L : PROFILED GASKET. **SS** : STAINLESS STEEL SCREW. **Y** : WITHOUT H.T.P.LOGO.

Adapters DIN valve connectors - Form A EN175301-803(DIN43650) + M12/M8 connectors



The technical drawing shows two views of the M30x1.5-8A ball valve. The top view is a side profile showing the handle on the left and the valve body on the right. The bottom view is a front elevation showing the valve's width and height. Dimensions are indicated as follows:

- Top View (Side Profile):**
 - Overall length: 54
 - Distance from handle centerline to the start of the main body: 7.8
 - Height of the main body: 27.9
- Bottom View (Front Elevation):**
 - Overall width: 54
 - Distance from the centerline of the handle to the centerline of the valve stem: 5.9
 - Mounting hole diameter: M3
 - Distance from the mounting hole to the edge of the valve body: 15.6



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	G1N02000C-08MD3	G1N02DL1C-08MD3	G1N02VL1C-08MD3
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 + 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

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

Qty/Bag	1pc / bag	1pc / bag	1pc / bag
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See accessories section

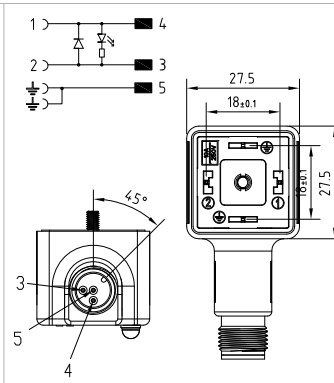
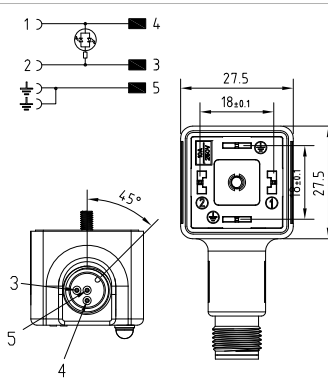
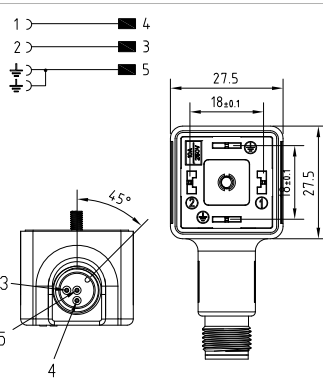
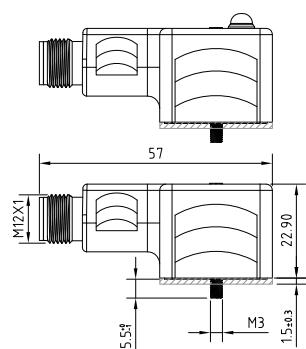
Connector available with different circuits Connector available with different led colour Connector available with different led colour

VALVE CONNECTORS

Adapters DIN valve connectors - Form A
EN175301-803(DIN43650) + M12/M8 connectors



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	G1N02000C-12MD	G1N02L01C-12MD	G1N02DL1C-12MD
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
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Other accessories options

See accessories section

Notes:

Connector available with different circuits

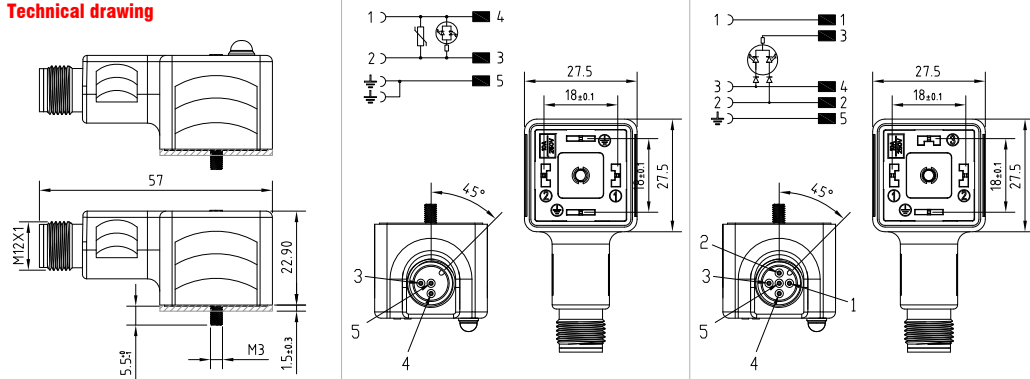
Connector available with different led colour

Connector available with different led colour

VALVE CONNECTORS

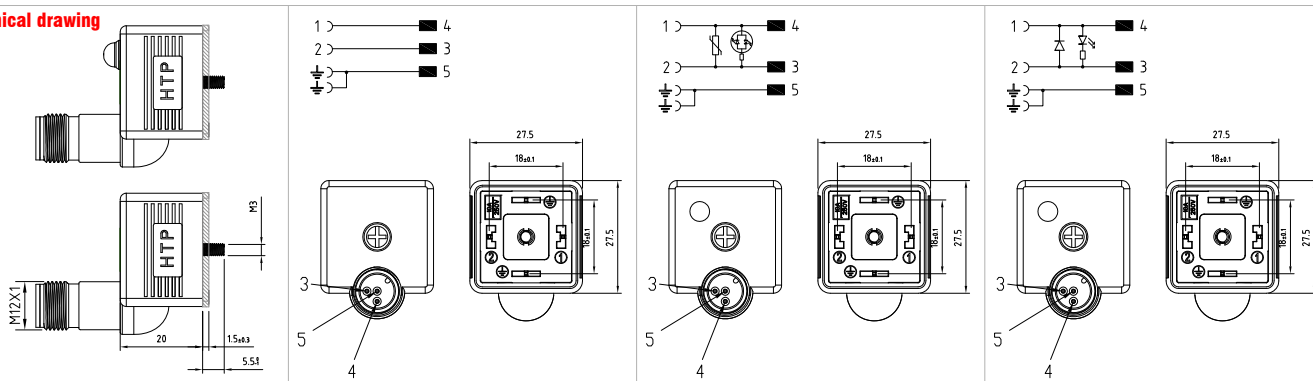
Adapters DIN valve connectors - Form A
EN175301-803(DIN43650) + M12/M8 connectors



Technical drawing			
			
Product description			
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	G1N02VL1C-12MD	G1N03Q01A-12MD	
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	
Technical data			
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	
Packaging			
Qty/Bag	1pc / bag	1pc / bag	
Other accessories options			
See accessories section			
Notes:			
	Connector available with different led colour	Connector available with different led connection: Q8 circuit (Green pin 2; Red pin 3) 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	GBN02000C-12MD	GBN02VL1C-12MD	GBN02DL1C-12MD
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
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Other accessories options

See accessories section

Notes:

Connector available with different circuits

Connector available with different led colour

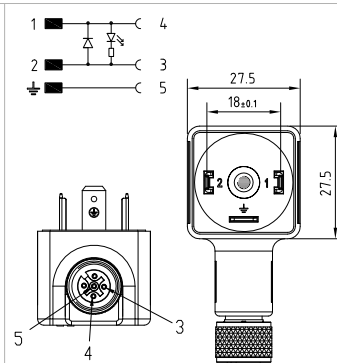
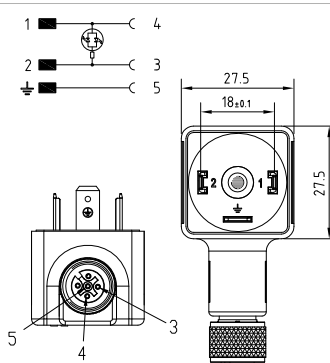
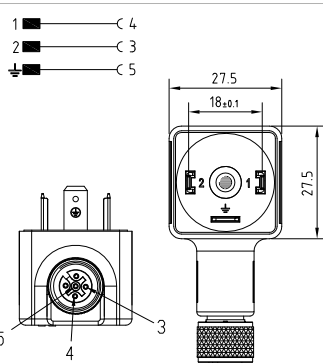
Connector available with different led colour

Adapters DIN valve connectors - Form A EN175301-803(DIN43650) + M12/M8 connectors



Technical drawing of the M2X1 motor showing front and side views with dimensions:

- Front view (top): Shows the motor with a total width of 58.5 and a mounting flange diameter of 22.90.
- Side view (bottom): Shows the motor with a total height of 12.43 and a mounting flange thickness of 10.34.



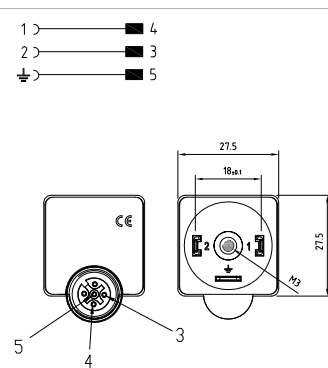
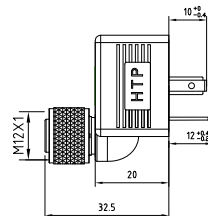
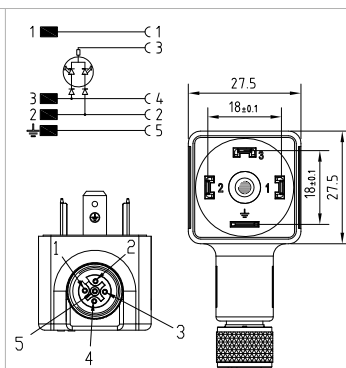
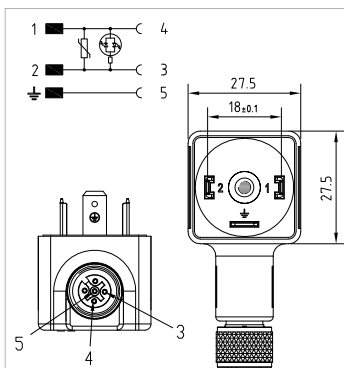
Connector type	Adapter DIN valve connector-M12 connector	Adapter DIN valve connector-M12 connector	Adapter DIN valve connector-M12 connector
Conforms to	EN175301-803	EN175301-803	EN175301-803
Construction type	A	A	A
Part number	BG1N02000A-12FD	BG1N02L01A-12FD	BG1N02DL1A-12FD
Description	Adapter square 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

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

Qty/Bag	1pc / bag	1pc / bag	1pc / bag
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See accessories section

	Connector available with different circuits	Connector available with different led colour	Connector available with different led colour
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Product description

Adapter DIN valve connector-M12 connector	Adapter DIN valve connector-M12 connector
EN175301-803	EN175301-803
A	A
BG1N02VL1A-12FD	BG1N02Q01A-12FD
Adapter square connector EN175301-803 (form A) male - M12 circular connector.	Adapter square connector EN175301-803 (form A) male - M12 circular connector.
18mm	18mm
2poles + P.E.	2poles + P.E.
H.6	H.6
Black	Black
22.9mm	22.9mm
-	-
M12	M12

Technical data

24V AC/DC	24V DC
Bipolar Led + Varistor	Bicolour Led + no.2 Diodes (1A)
Red	Red (pin 2) ; Green (pin3)
M3x0.5 Closed	M3x0.5 Closed
Iron + Zinc plated	Iron + Zinc plated
0.5 N*m	0.5 N*m
Straight 180°	Straight 180°
Female 3poles	Female 3poles
n°3	n°5

Packaging

1pc / bag	1pc / bag
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Other accessories options

See accessories section

Notes:

Connector available with different led colour

Connector available with different led connection:
Q8 circuit (Green pin 2; Red pin 3)
Q1 circuit (Yellow pin 2; Green pin 3)

Product description

Connector type	Adapter DIN valve connector-M12 connector
Conforms to	EN175301-803
Construction type	A
Part number	BGB1N02000A-12FD
Description	Adapter square connector EN175301-803 (form A) top exit male-M12 circular connector.
Contacts spacing	18mm
Number of contacts	2poles + P.E.
Earth positioning	H.6
Housing colour	Black
Height housing	20mm
Gasket type	-
Circular connector type	M12

Technical data

Rated voltage	60V AC/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
M12 Connector type	Straight 180°
M12 contacts type	Female 3poles
Number of contacts connected	n°3

Packaging

Qty/Box	1pc / bag
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Other accessories options

See accessories section

Notes:

VALVE CONNECTORS

Adapters DIN valve connectors - Form A
EN175301-803(DIN43650) + M12/M8 connectors

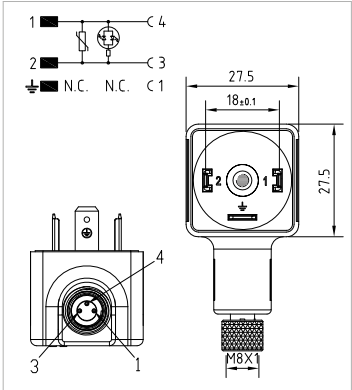


Technical drawing			
Product description			
Connector type	Adapter DIN valve connector - M8 connector	Adapter DIN valve connector - M8 connector	Adapter DIN valve connector - M8 connector
Conforms to	EN175301-803	EN175301-803	EN175301-803
Construction type	A	A	A
Part number	BG1N02000C-08FD3	BG1N02L01C-08FD3	BG1N02DL1C-08FD3
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
Technical data			
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
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

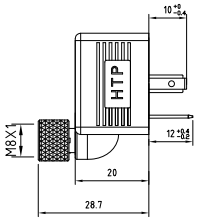
VALVE CONNECTORS

Adapters DIN valve connectors - Form A

EN175301-803(DIN43650) + M12/M8 connectors



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	BG1N02000A-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:	

VALVE CONNECTORS

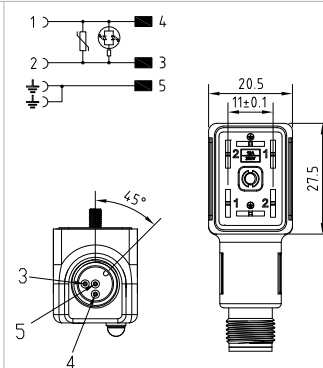
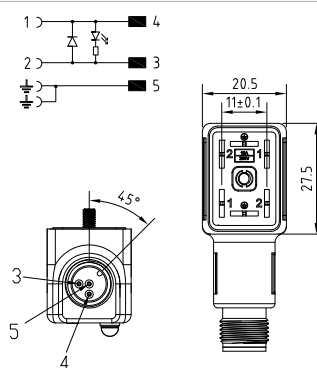
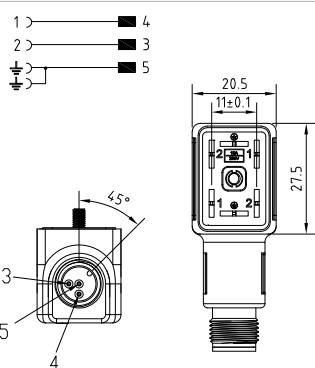
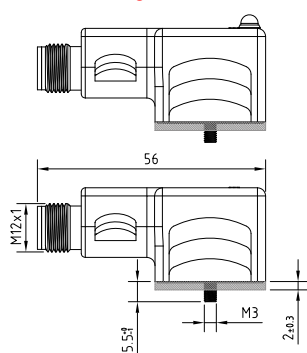
Adapters DIN valve connectors - Form B
Industrial + M12/M8 connectors



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	EN175301-803
Construction type	B	B	B
Part number	M1N02000C-08MD3	M1N02DL1C-08MD3	M1N02VL1C-08MD3
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
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
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	B	B	B
Part number	M1N02000C-12MD	M1N02DL1C-12MD	M1N02VL1C-12MD
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
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Other accessories options

See accessories section

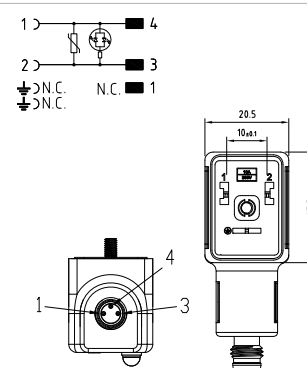
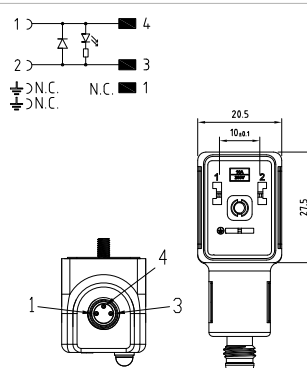
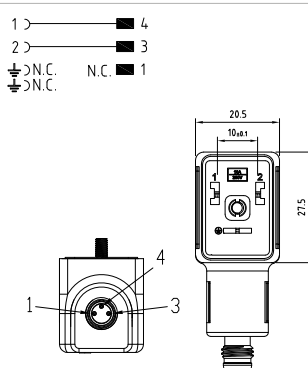
Notes:

Connector available with different circuits

Connector available with different led colour

Connector available with different led colour

Adapters DIN valve connectors - Form 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	M2N02000A-08MD3	M2N02DL1A-08MD3	M2N02VL1A-08MD3
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

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

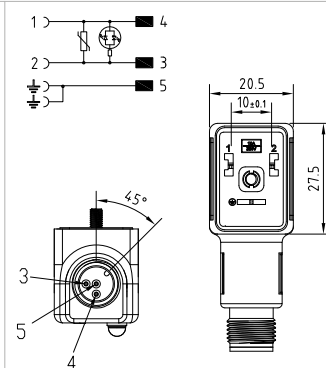
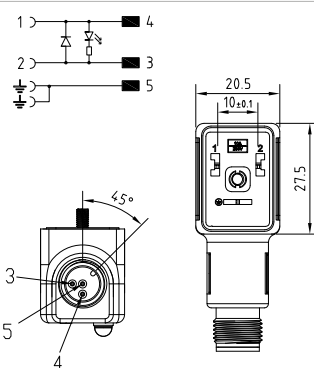
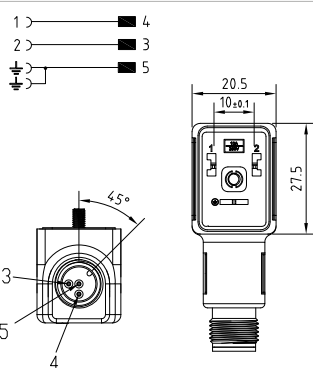
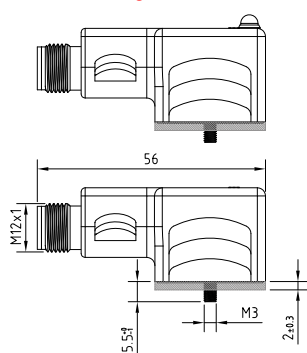
Qty/Bag	1pc / bag	1pc / bag	1pc / bag
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See accessories section

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	M2N02000A-12MD3	M2N02DL1A-12MD	M2N02VL1A-12MD
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
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Other accessories options

See accessories section

Notes:

Connector available with different circuits

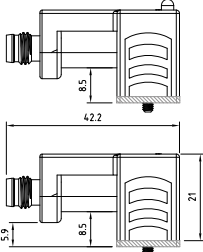
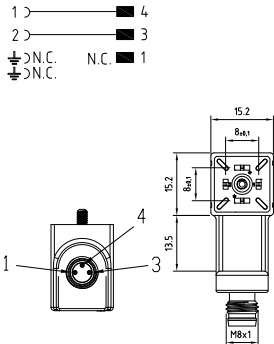
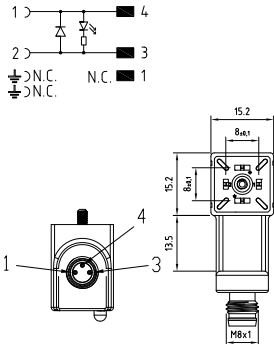
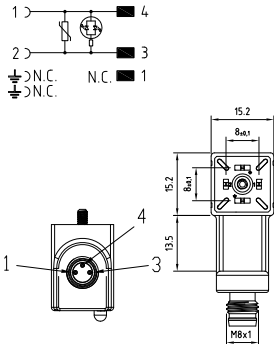
Connector available with different led colour

Connector available with different led colour

VALVE CONNECTORS

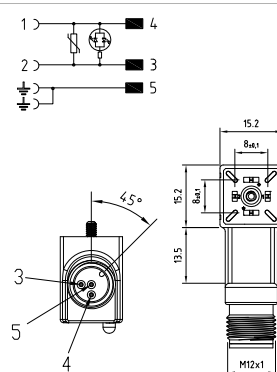
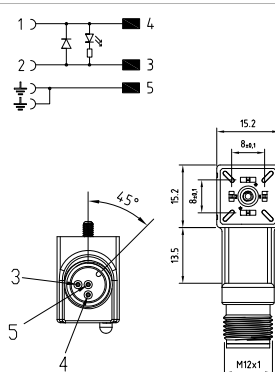
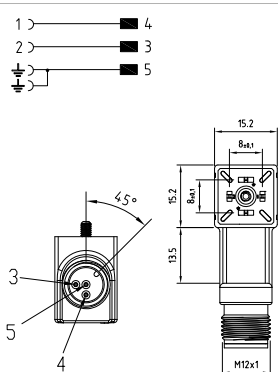
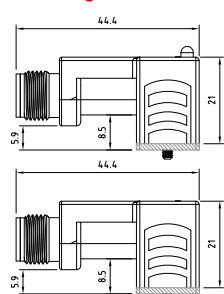
Adapters DIN valve connectors - Form C
EN175301-803(DIN43650) + M12/M8 connectors



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	EN175301-803	EN175301-803	EN175301-803
Construction type	C	C	C
Part number	P1N02000C-08MD3	P1N02DL1C-08MD3	P1N02VL1C-08MD3
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.
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	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	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
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	EN175301-803	EN175301-803	EN175301-803
Construction type	C	C	C
Part number	P1N02000C-12MD	P1N02DL1C-12MD	P1N02VL1C-12MD
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
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Other accessories options

See accessories section

Notes:

Connector available with different circuits

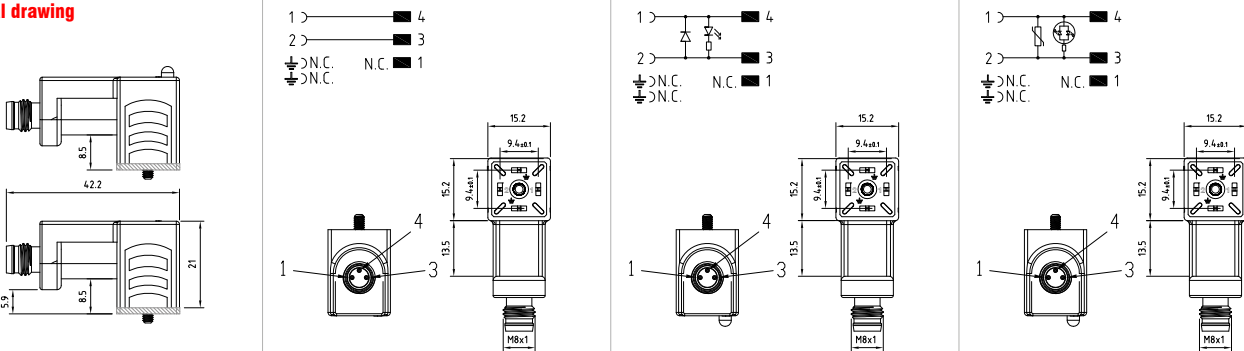
Connector available with different led colour

Connector available with different led colour

VALVE CONNECTORS

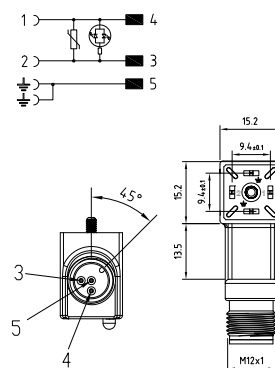
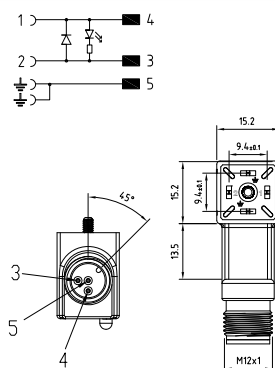
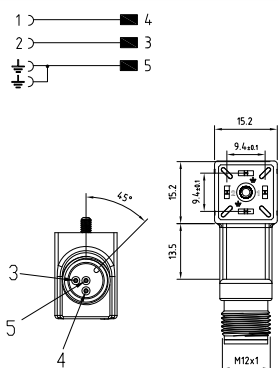
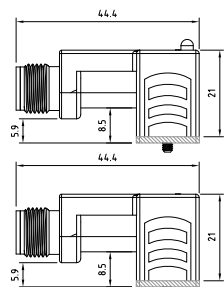
Adapters DIN valve connectors - Form C
Industrial + M12/M8 connectors



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	P2N02000C-08MD3	P2N02DL1C-08MD3	P2N02VL1C-08MD3
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	P2N02000C-12MD	P2N02DL1C-12MD	P2N02VL1C-12MD
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
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Other accessories options

See accessories section

Notes:

Connector available with different circuits

Connector available with different led colour

Connector available with different led colour

VALVE CONNECTORS

Digital timer



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.

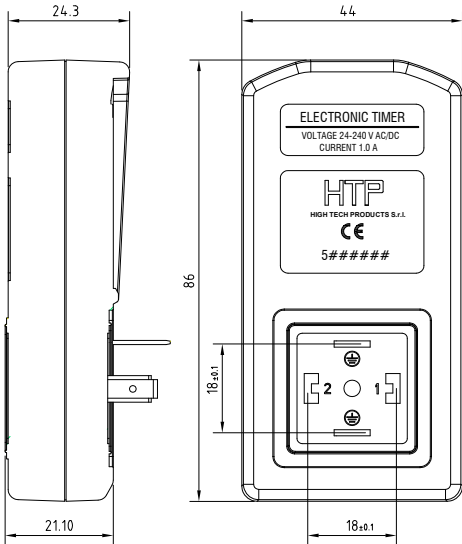
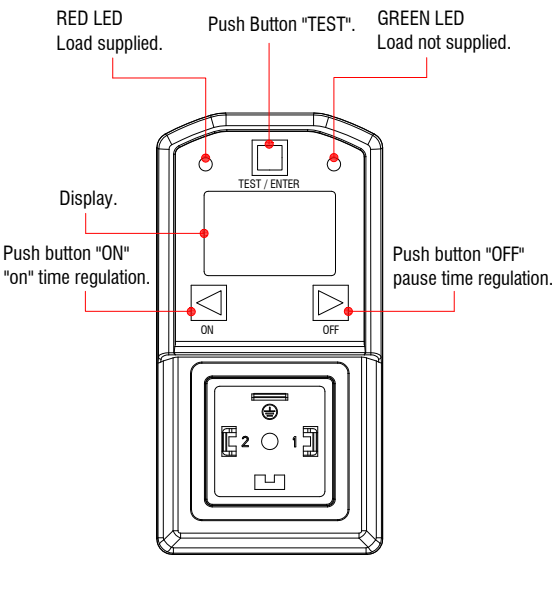
STEP 3 : When the unit is installed correctly and operative, you can change the pre-set values to whatever ranging from 0.5 sec. to 99 sec. for the ON time.
To change ON time simply press the "ON" button for 3 sec. and "sec" will start flashing on right side of the display.
The previously set ON time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

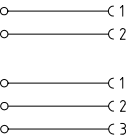
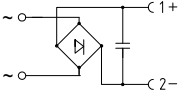
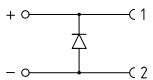
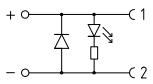
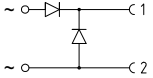
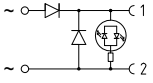
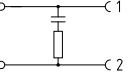
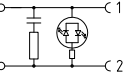
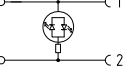
STEP 4 : Press the "Test / Enter" button to confirm your choice.

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.

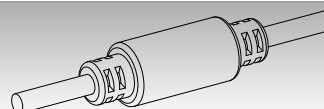
STEP 6 : Press the "test/enter" button to confirm your choice.

Product description	
Connector type	Digital Timer
Construction type	A
Part number	TIMER-DIG
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) 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. From 10 sec. to 99 sec. ; step 1 sec.
OFF Time	From 0 min. to 9.5 min. ; step 0.5 min. 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



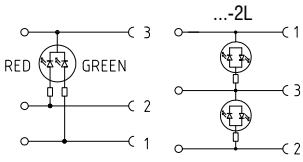
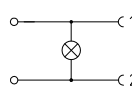
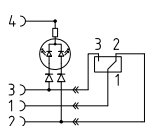
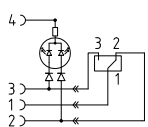
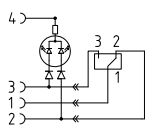
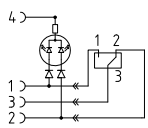
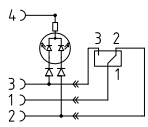
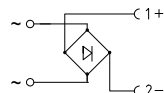
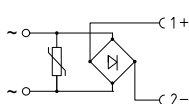
Input type	Wiring diagram	Rated voltage	Circuit code	Led colour	Circuit description	Product type field attachable	Product type with cable
AC / DC		250V 300V	00	-	Circuit without electronic components.	G1 - G1C G4 M1 M2 P1 P2	CG1 CM2 CGB CP1 CM1 CP2 CM1B CP2C
AC		10-230V	CR	-	Circuit with Full-wave rectifier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

* = Product available with case overmoulded on the cable.

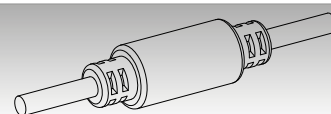


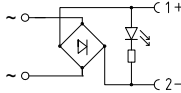
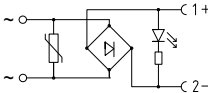
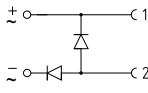
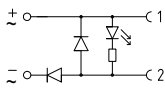
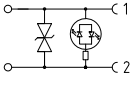
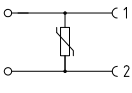
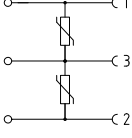
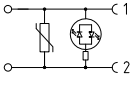
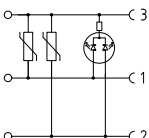
VALVE CONNECTORS

Circuits codification scheme

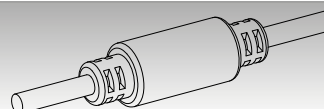
Input type	Wiring diagram	Rated voltage	Circuit code	Led colour	Circuit description	Product type field attachable	Product type with cable
AC / DC		12V 24V 48V 115V 230V	L2	PIN 1:Green PIN 2:Red	Circuit with n°1 bicolour indicator Led. Circuit without protection components.	G1 - G1C G4	-
			L2... -2L	Red	Circuit with n°2 bipolar indicator Leds. Circuit without protection components.		
AC / DC		12V 24V 48V 115V 230V	P0	White	Circuit with filament lamp indicator to confirm voltage supply. Circuit without protection components.	G1 - G1C G4 M1 M2	-
DC		12V 24V 48V 115V 230V	Q0	PIN 2:Red PIN 3:Green	Circuit with Bicolour Led to show the position of the changeover contact (ex. pressure switches) and n°2 Diodes to give overvoltage protection when switching off supply. Must be respected the polarity direction.	G1-G1C G4	CG1
DC		12V 24V 48V 115V 230V	Q1	PIN 2:Yellow PIN 3:Green	Circuit with Bicolour Led to show the position of the changeover contact (ex. pressure switches) and n°2 Diodes to give overvoltage protection when switching off supply. Must be respected the polarity direction.	G1 - G1C G4	CG1
DC		12V 24V 48V 115V 230V	Q2	PIN 2:Green PIN 3:Yellow	Circuit with Bicolour Led to show the position of the changeover contact (ex. pressure switches) and n°2 Diodes to give overvoltage protection when switching off supply. Must be respected the polarity direction.	G1 - G1C G4	CG1
DC		12V 24V 48V 115V 230V	Q6	PIN 1:Green PIN 2:Red	Circuit with Bicolour Led to show the position of the changeover contact (ex. pressure switches) and n°2 Diodes to give overvoltage protection when switching off supply. Must be respected the polarity direction.	G1 G4	CG1
DC		12V 24V 48V 115V 230V	Q8	PIN 2:Green PIN 3:Red	Circuit with Bicolour Led to show the position of the changeover contact (ex. pressure switches) and n°2 Diodes to give overvoltage protection when switching off supply. Must be respected the polarity direction.	G1 - G1C G4	CG1
AC		1-230V	R0	-	Circuit with Full-wave rectifier to polarize the output current (DC) independently to input current type (AC). Circuit without protection components.	G1 G4 M1 M2	CG1 CM2* CGB CP1* CM1* CP2* CM1B* CP2C*
AC		12V 24V 48V 115V 230V	RV	-	Circuit with Full-wave rectifier to polarize the output current (DC) independently to input current type (AC) and Varistor to give overvoltage protection when switching off supply.	G1 G4 M1 M2	CG1 CM2* CGB CP1* CM1* CP2* 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 24V 48V 115V 230V	RE	Red	Circuit with Full-wave rectifier to polarize the output current (DC) independently to input current type (AC) and unipolar indicator Led to confirm voltage supply. Circuit without protection components.	G1 G4 M1 M2	CG1 CM2* CGB CP1* CM1* CP2* CM1B* CP2C*
AC		12V 24V 48V 115V 230V	RG	Yellow	Circuit with Full-wave rectifier to polarize the output current (DC) independently to input current type (AC) and Varistor to give overvoltage protection when switching off supply + unipolar indicator Led to confirm voltage supply.	G1 G4 M1 M2	CG1 CM2* CGB CP1* CM1* CP2* CM1B* CP2C*
			RL	Red			
DC		1-230V	SO	-	Circuit with Half-wave rectifier and Diode to give overvoltage protection when switching off supply. With AC it eliminates half a cycle.	G1 - G1C G4 M1 M2	CG1 CM2 CGB CP1 CM1 CP2 CM1B CP2C
DC		12V 24V 48V 115V 230V	SG	Yellow	Circuit with Half-wave rectifier and Diode to give overvoltage protection when switching off supply + unipolar indicator Led to confirm voltage supply. With AC it eliminates half a cycle.	G1 - G1C G4 M1 M2	CG1 CM2 CGB CP1* CM1 CP2* CM1B CP2C*
			SL	Red			
			SV	Green			
AC / DC		12V 24V 48V 115V 230V	TG	Yellow	Circuit with Transient suppressor (Transil) to give overvoltage protection when switching off supply. Circuit protection component independent of polarity direction.	G1 - G1C G4 M1 M2	CG1 CM2 CGB CP1 CM1 CP2 CM1B CP2C
			TL	Red			
			TV	Green			
AC / DC		12V 24V 48V 115V 230V	V0	-	Circuit with Varistor to give overvoltage protection when switching off supply. Circuit protection component independent of polarity direction.	G1 - G1C G4 M1 M2 P1 P2	CG1 CM2 CGB CP1 CM1 CP2 CM1B CP2C
AC / DC		12V 24V 48V 115V 230V	V2	-	Circuit with n°2 Varistors to give overvoltage protection when switching off supply. Circuit protection component independent of polarity direction.	G1 - G1C G4	CG1 CGB CP1* CP2* CP2C*
AC / DC		12V 24V 48V 115V 230V	VG	Yellow	Circuit with Varistor to give overvoltage protection when switching off supply and bipolar indicator Led to confirm voltage supply. Circuit protection component independent of polarity direction.	G1-G1C G4 M1 M2 P1 P2	CG1 CM2 CGB CP1 CM1 CP2 CM1B CP2C
			VL	Red			
			VV	Green			
AC / DC		12V 24V 48V 115V 230V	WL	PIN 1:Yellow PIN 2:Red	Circuit with Bicolour Led to show the position of the changeover contact (ex. pressure switches) and n°2 Varistors to give overvoltage protection when switching off supply. Circuit protection component independent of polarity direction.	G1-G1C G4	CG1 CGB CP1* CP2* CP2C*

* = Product available with case overmoulded on the cable.



VALVE CONNECTORS

Circuits codification scheme



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

Notes:

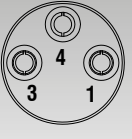
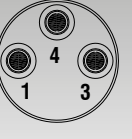
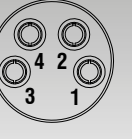
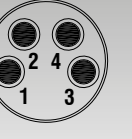
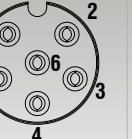

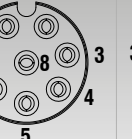

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**M8 CIRCULAR CONNECTORS
A-CODED**

M8 CIRCULAR CONNECTORS A-CODED

Field attachable connectors - General features and codification scheme

FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE
							
3 POLES: 1 : BROWN ● 3 : BLUE ● 4 : BLACK ●		4 POLES: 1 : BROWN ● 2 : WHITE ○ 3 : BLUE ● 4 : BLACK ●		6 POLES: 1 : BROWN ● 2 : WHITE ○ 3 : BLUE ● 4 : BLACK ● 5 : GREY ● 6 : PINK ●		8 POLES: 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)...0.50mm²(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 :

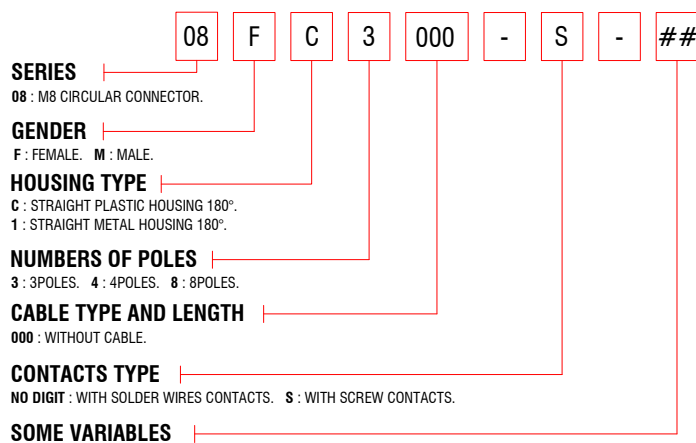
UL94-V2 - Standard
 UL94-V0 - ATEX approved.

Protection class :

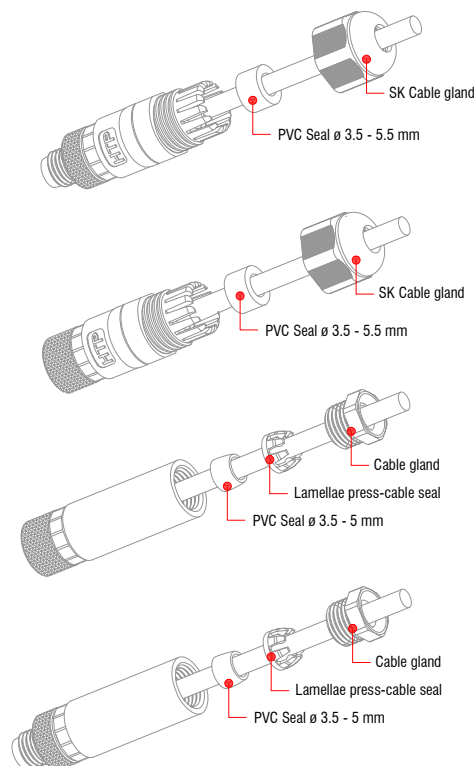
IP65/67 (assembled).
 IP55/57 ATEX approved.

Operating temperature :

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



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.



M8 CIRCULAR CONNECTORS A-CODED

Field attachable connectors



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	08FC3000		08FC3000-SK		08FC4000		08FC4000-SK		08FC3000-S		08FC3000-S-SK		08FC4000-S		08FC4000-S-SK	
Housing type	Straight 180°			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			Circular connector M8 series field attachable			
Contacts type	Female			Female			Female			Female			Female			
Number of contacts	3poles			4poles			3poles			4poles			3poles			
Housing colour	Black			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			1 pc / bag			
Other accessories options																
See accessories section																
Notes:																
Connectors available with different features:																
See the general features and codification scheme page																

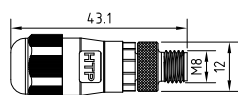
M8 CIRCULAR CONNECTORS A-CODED

Field attachable connectors

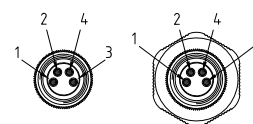
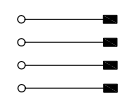
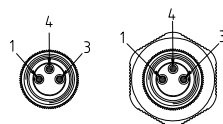
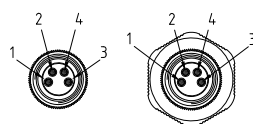
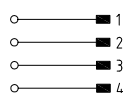
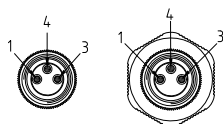
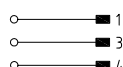
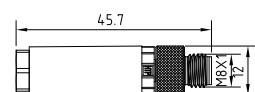


Technical drawing

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	08MC3000	08MC3000-SK	08MC4000	08MC4000-SK	08MC3000-S	08MC3000-S-SK	08MC4000-S	08MC4000-S-SK
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
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Other accessories options

See accessories section


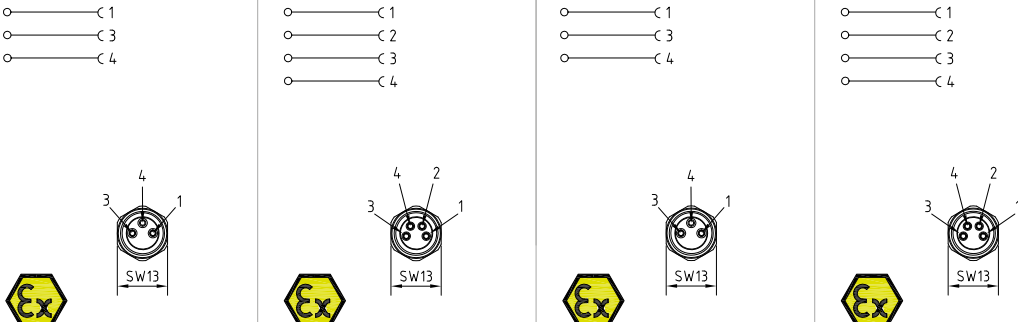
Notes:

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

M8 CIRCULAR CONNECTORS A-CODED

Field attachable connectors



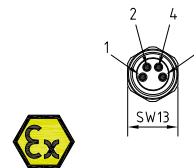
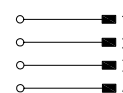
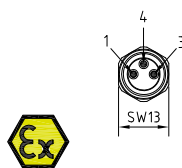
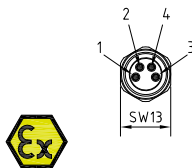
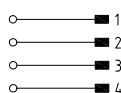
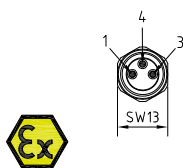
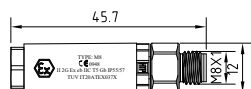
Technical drawing				
				
				
Product description				
Connector type	Circular connector field attachable	Circular connector field attachable	Circular connector field attachable	Circular connector field attachable
Conforms to	IEC 61076-2-104	IEC 61076-2-104	IEC 61076-2-104	IEC 61076-2-104
Construction type	M8 A -Coding	M8 A -Coding	M8 A -Coding	M8 A -Coding
Part number	08FC3000-ATEX	08FC4000-ATEX	08FC3000-S-ATEX	08FC4000-S-ATEX
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
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	0.4N*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				

M8 CIRCULAR CONNECTORS A-CODED

Field attachable connectors



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	08MC3000-ATEX	08MC4000-ATEX	08MC3000-S-ATEX	08MC4000-S-ATEX
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
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Other accessories options

See accessories section

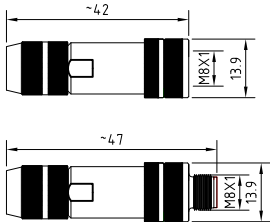
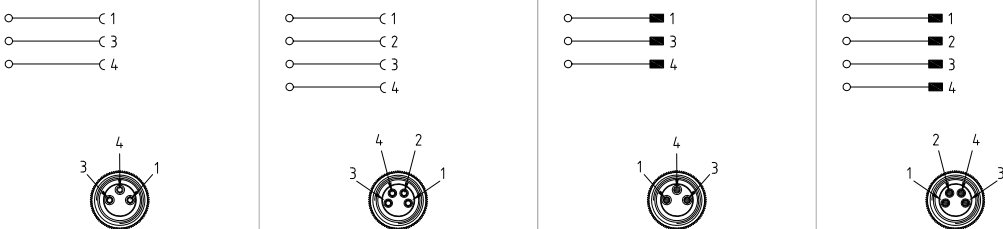
Notes:

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

M8 CIRCULAR CONNECTORS A-CODED

Field attachable connectors



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	08F13000	08F14000	08M13000	08M14000
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
Technical data				
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
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 :
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.

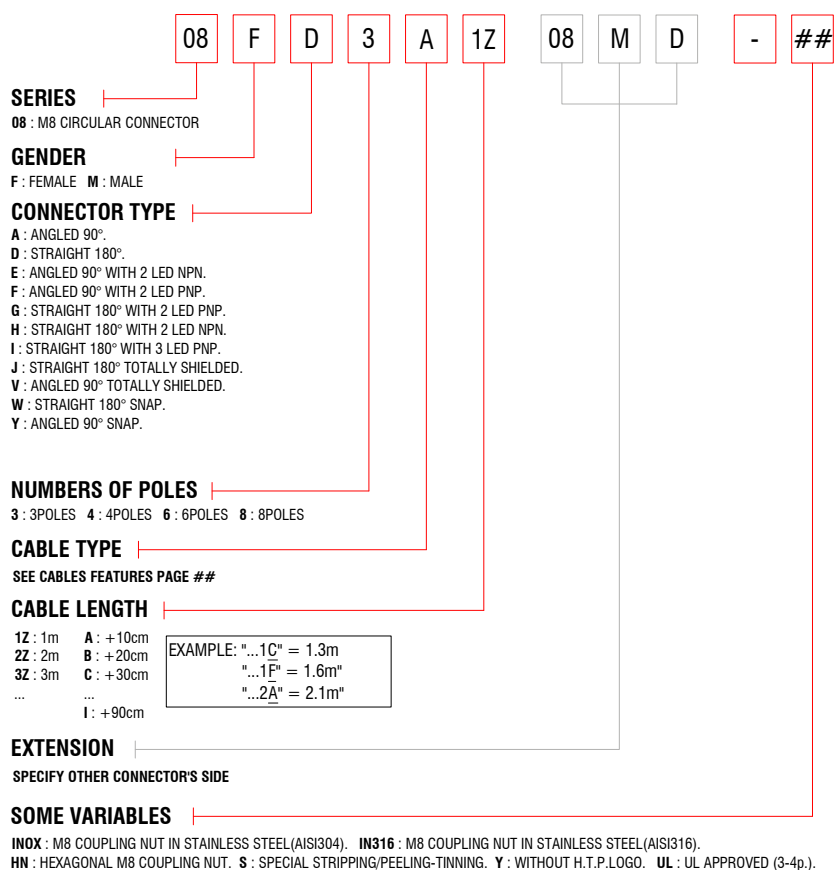
Max. screw torque IEC60947-1
M8 coupling nut torque 0.2 N*m.

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

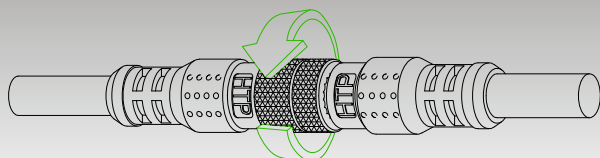
Type of terminations :
Crimped wires.

Protection class :
IP 67/IP69K.

Contact material and treatment :
Brass + Gold flash.



ANTI-VIBRATION SYSTEM:

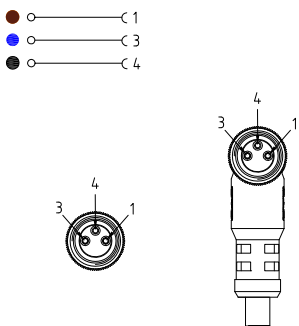
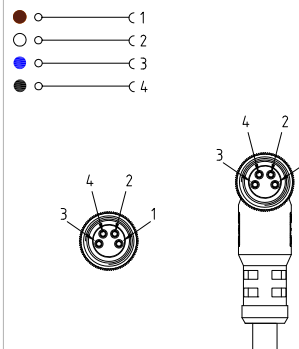
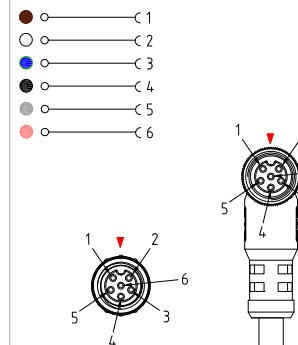
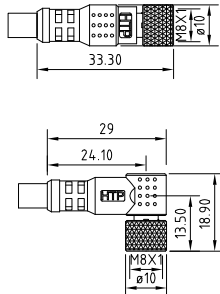


* Not available for M8 circular connector totally shielded.

M8 CIRCULAR CONNECTORS A-CODED

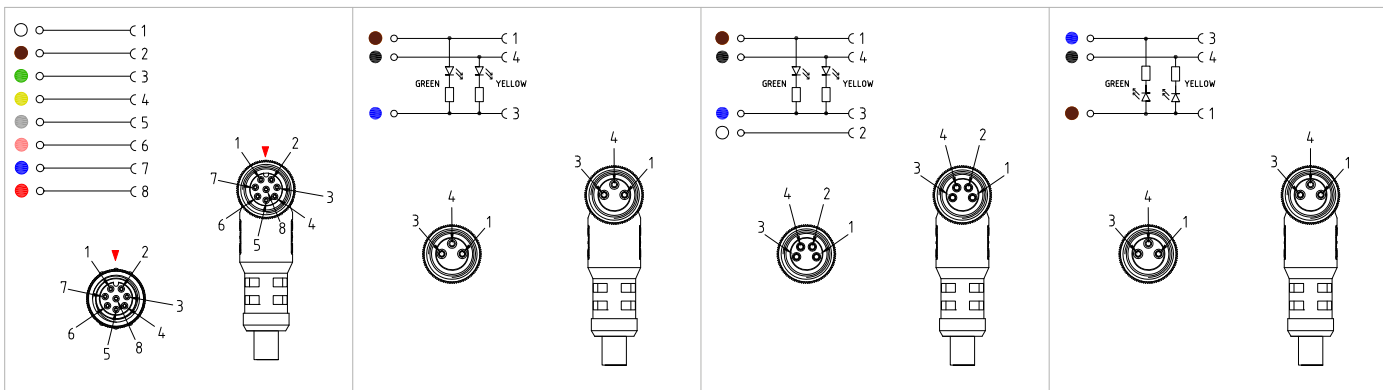
Moulded cable connectors



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	08FD3A1Z	08FA3A1Z	08FD4A1Z	08FA4A1Z	08FD6K1Z	08FA6K1Z	
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		
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	3x0.25mm²		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		
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							

M8 CIRCULAR CONNECTORS A-CODED

Moulded cable connectors



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 PNP circuit (PIN1: GN;PIN4:YE)with moulded cable		Circular connector M8 series n.2 Led PNP circuit (PIN1: GN;PIN4:YE)with moulded cable		Circular connector M8 series n.2 Led NPN circuit (PIN3: GN;PIN4:YE)with moulded cable	
08FD8K1Z	08FA8K1Z	08FG3A1Z	08FF3A1Z	08FG4A1Z	08FF4A1Z	08FH3A1Z	08FE3A1Z
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 ²		3x0.25mm ²		4x0.25mm ²		3x0.25mm ²	
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
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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

M8 CIRCULAR CONNECTORS A-CODED

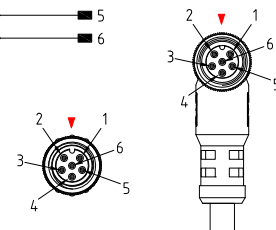
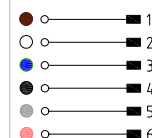
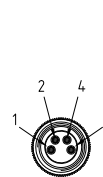
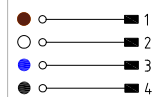
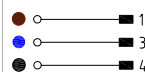
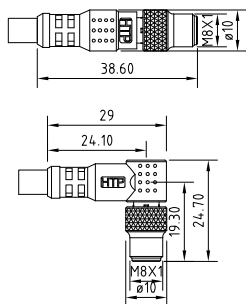
Moulded cable connectors



		Technical drawing					
Product description		Product description		Product description		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 n.2 Led NPN circuit (PIN3: GN;PIN4:YE)with moulded cable		Circular connector M8 series TOTALLY SHIELDED connector with moulded cable		Circular connector M8 series TOTALLY SHIELDED connector with moulded cable		Circular connector M8 series TOTALLY SHIELDED connector with moulded cable	
08FH4A1Z	08FE4A1Z	Part number		08FJ3J1Z	08FV3J1Z	08FJ4J1Z	08FV4J1Z
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	
Technical data		Technical data		Technical data		Technical data	
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 ²		No. Conductors / Section		3x0.25mm ²		4x0.25mm ²	
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	
Packaging		Packaging		Packaging		Packaging	
1 pc / bag		Qty/Bag		1 pc / bag		1 pc / bag	
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: Connectors available with different features: See the general features and codification scheme page See the cables list section		Notes: Connectors available with different features: See the general features and codification scheme page See the cables list section		Notes: Connectors available with different features: See the general features and codification scheme page See the cables list 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 series with moulded cable		Circular connector M8 series with moulded cable		Circular connector M8 series with moulded cable	
Part number	08MD3A1Z	08MA3A1Z	08MD4A1Z	08MA4A1Z	08MD6K1Z	08MA6K1Z
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 ²	4x0.25mm ²	6x0.14mm ²
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
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Other accessories options

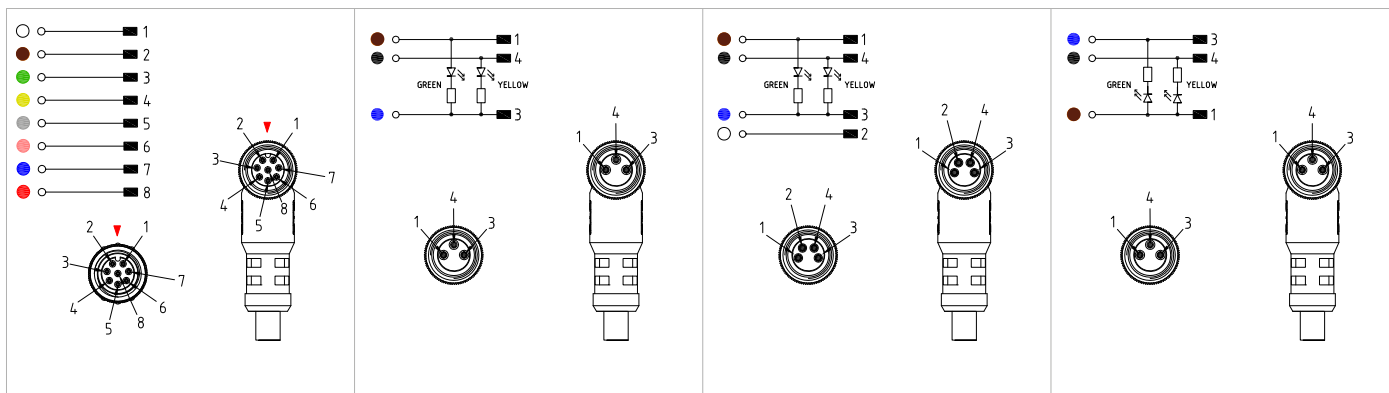
See accessories section

Notes:

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

M8 CIRCULAR CONNECTORS A-CODED

Moulded cable connectors



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 PNP circuit (PIN1: GN;PIN4:YE)with moulded cable		Circular connector M8 series n.2 Led PNP circuit (PIN1: GN;PIN4:YE)with moulded cable		Circular connector M8 series n.2 Led NPN circuit (PIN3: GN;PIN4:YE)with moulded cable	
08MD8K1Z	08MA8K1Z	08MG3A1Z	08MF3A1Z	08MG4A1Z	08MF4A1Z	08MH3A1Z	08ME3A1Z
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	
8x0.14mm ²		3x0.25mm ²		4x0.25mm ²		3x0.25mm ²	
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
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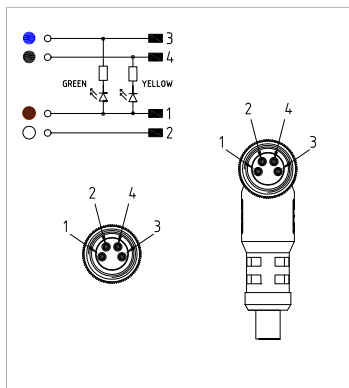
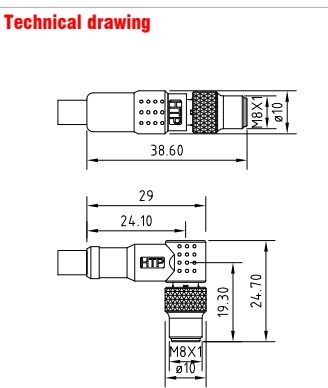
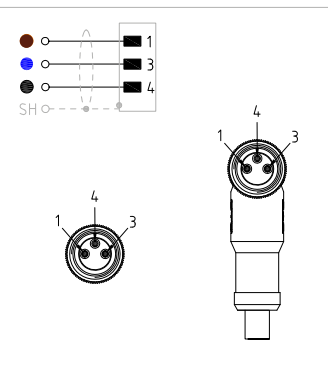
Other accessories options

See accessories section

Notes:

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

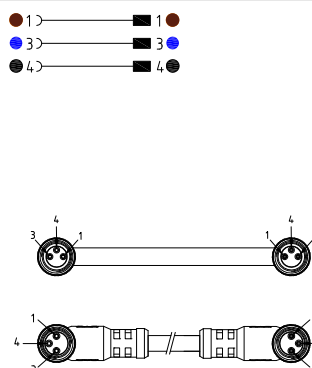
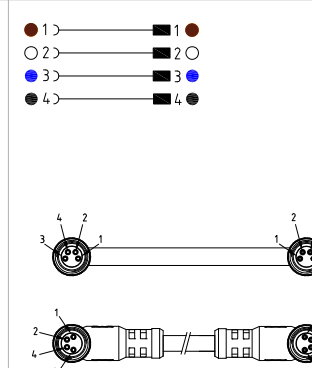
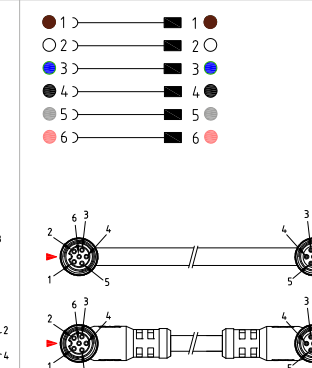
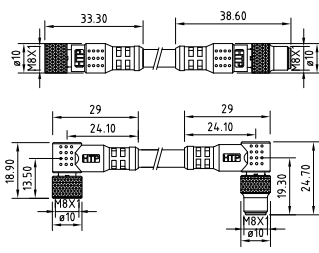


		Technical drawing 			
Product description		Product description		Product description	
Circular connector with moulded cable		Circular connector with moulded cable		Circular connector with moulded cable	
IEC 61076-2-104		IEC 61076-2-104		IEC 61076-2-104	
M8 A -Coding		M8 A -Coding		M8 A -Coding	
Circular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

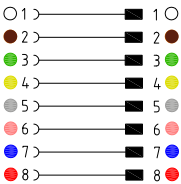
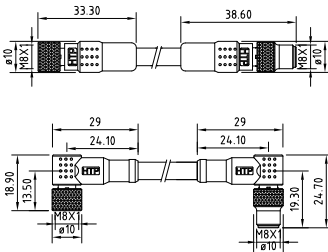
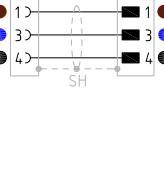
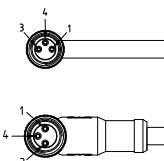
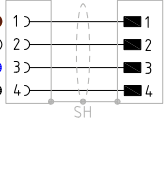
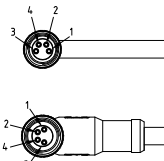
M8 CIRCULAR CONNECTORS A-CODED

Moulded cable connectors



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		08FD3A1Z08MD	08FA3A1Z08MA	08FD4A1Z08MD	08FA4A1Z08MA	08FD6K1Z08MD	08FA6K1Z08MA
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		3x0.25mm²		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	
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							



 		 		 	
Technical drawing		Technical drawing		Technical drawing	
Product description		Product description		Product description	
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	
M8 A -Coding		M8 A -Coding		M8 A -Coding	
Circular connector M8 series with moulded cable		Extension M8-M8 connectors TOTALLY SHIELDED with moulded cable		Extension M8-M8 connectors TOTALLY SHIELDED with moulded cable	
08FD8K1Z08MD	08FA8K1Z08MA	08FJ3J1Z08MJ	08FV3J1Z08MV	08FJ4J1Z08MJ	08FV4J1Z08MV
Straight 180°	Angled 90°	Straight 180°	Angled 90°	Straight 180°	Angled 90°
Moulded cable		Moulded cable		Moulded cable	
Female-Male		Female-Male		Female-Male	
8poles		3poles		4poles	
Black		Black		Black	
Technical data		Technical data		Technical data	
Contacts to solder 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	
0.2 N*m		0.2 N*m		0.2 N*m	
30V AC/DC		50V AC/ 60V DC		50V AC/ 60V DC	
1.5A		3A		3A	
NBR		NBR		NBR	
PVC/PVC CEI2022		PVC/PVC CEI2022 SHIELDED		PVC/PVC CEI2022 SHIELDED	
Black		Black		Black	
8x0.14mm ²		3x0.25mm ²		4x0.25mm ²	
White;Brown;Green;Yellow;Grey;Pink;Blue;Red		Brown; Blue; Black		Brown; White; Blue; Black	
ø4.9mm (±0.3)		ø4.4mm (±0.3)		ø4.8mm (±0.3)	
1m length		1m		1m	
Packaging		Packaging		Packaging	
1 pc / bag		1 pc / bag		1 pc / bag	
Other accessories options		Other accessories options		Other accessories options	
See accessories section		See accessories section		See accessories section	
Notes:		Notes:		Notes:	
Connectors available with different features: See the general features and codification scheme page See the cables list section		Connectors available with different features: See the general features and codification scheme page See the cables list section		Connectors available with different features: See the general features and codification scheme page See the cables list section	

M8 CIRCULAR CONNECTORS A-CODED

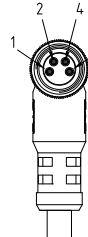
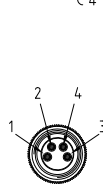
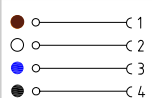
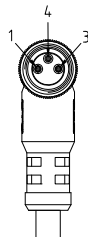
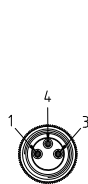
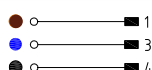
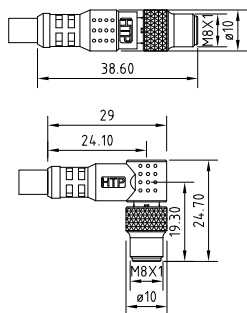
Moulded cable connectors



<div>Technical drawing</div> <div></div>



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	08MD3S1Z-UL	08MA3S1Z-UL	08MD4S1Z-UL	08MA4S1Z-UL
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 (0.25mm ²)		4xAWG24 (0.25mm ²)	
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.
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Other accessories options

See accessories section

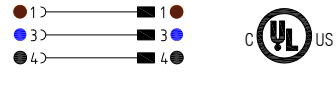
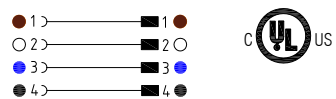
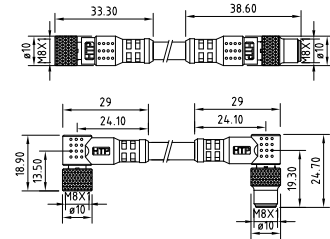
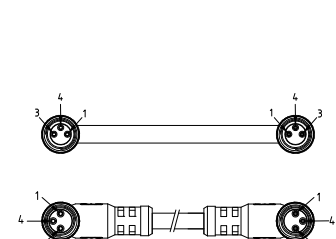
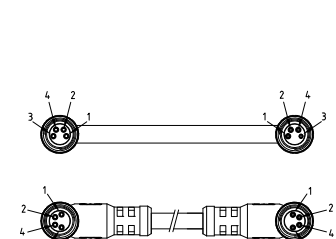
Notes:

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

M8 CIRCULAR CONNECTORS A-CODED

Moulded cable connectors



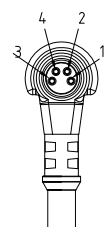
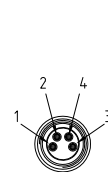
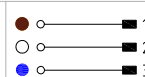
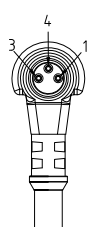
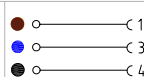
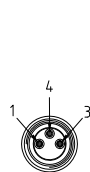
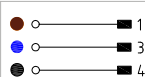
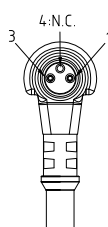
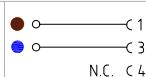
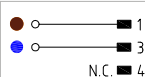
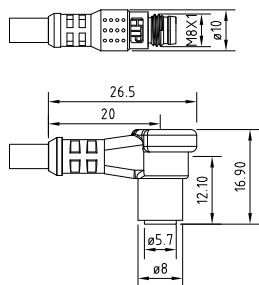
Technical drawing					
					
Product description					
Connector type	Circular connector with moulded cable		Circular connector with moulded cable		
Conforms to	IEC 61076-2-104 / UL approved		IEC 61076-2-104 / UL approved		
Construction type	M8 A -Coding		M8 A -Coding		
Description	Circular connector M8 series with moulded cable		Circular connector M8 series with moulded cable		
Part number	08FD3S1Z08MD-UL	08FA3S1Z08MA-UL	08FD4S1Z08MD-UL	08FA4S1Z08MA-UL	
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 (0.25mm²)		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	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					

M8 CIRCULAR CONNECTORS A-CODED

Moulded cable connectors SNAP series



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	08MW2N1Z	08FY2N1Z-Y	08MW3N1Z	08FY3N1Z-Y	08MW4N1Z	08FY4N1Z-Y
Housing type	Straight 180°		Angled 90°		Straight 180°	
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 ²		3x0.25mm ²		4x0.25mm ²	
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
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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

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M8 CIRCULAR CONNECTORS A-CODED

Panel mount connectors - General features and codification scheme

• GENERAL FEATURES PANEL MOUNT CONNECTORS:

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

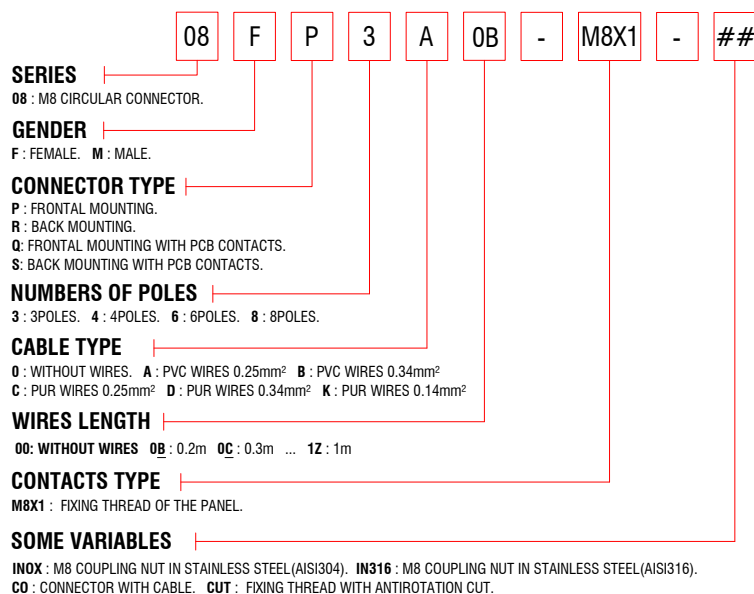
Fixing system :
M8 coupling nut.

Contact material and treatment :
Brass + Gold flash.

Flammability resistance :
UL94-V2 - Standard.

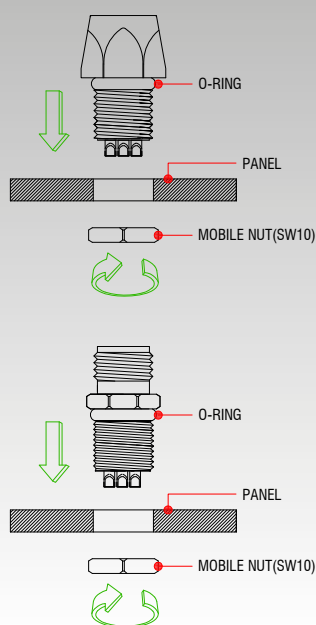
Protection class :
IP 67 (assembled).

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



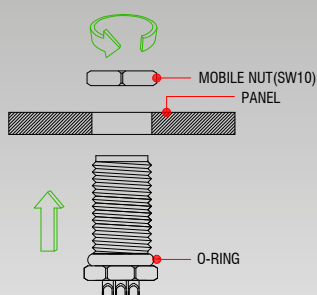
FRONT MOUNTING:

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.

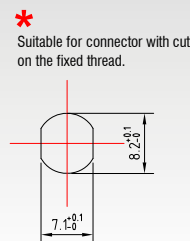
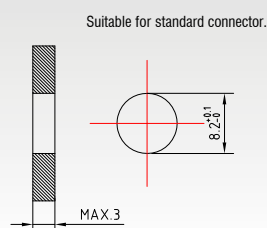


BACK MOUNTING:

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.



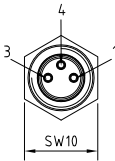
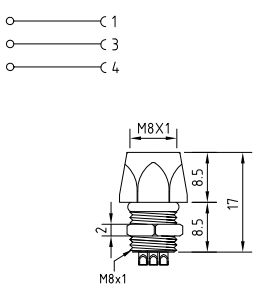
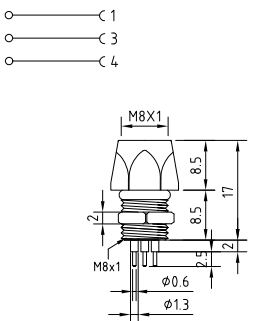
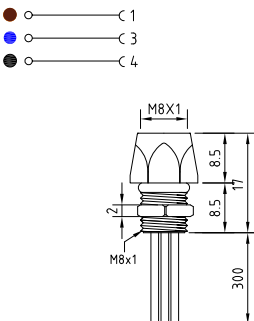
PANEL FEATURES:



M8 CIRCULAR CONNECTORS A-CODED

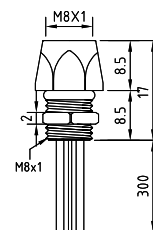
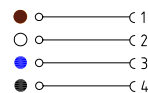
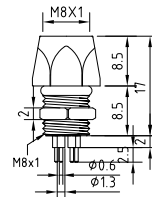
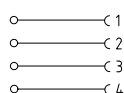
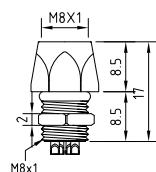
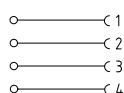
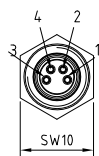
Panel mount connectors



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	08FP3000-M8X1	08FQ3000-M8X1	08FP3A0C-M8X1
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
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	-	-	3x0.25mm ²
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 feautres: 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	08FP4000-M8X1	08FQ4000-M8X1	08FP4A0C-M8X1
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 ²
Conductor colours	-	-	Brown; White; Blue; Black
Cable diameter	-	-	-
Wires length	-	-	0.3m

Packaging

Qty/Bag	Not defined	Not defined	Not defined
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Other accessories options

See accessories section

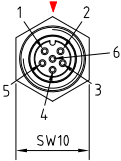
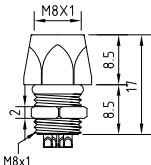
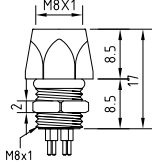
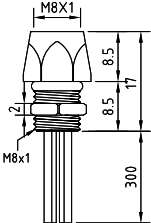
Notes:

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

M8 CIRCULAR CONNECTORS A-CODED

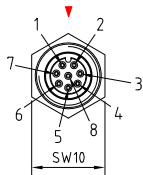
Panel mount connectors



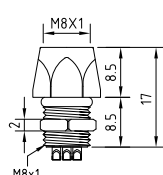
<div> <div>Technical drawing</div> <div>     </div> </div>																																																							
<div> <div>Product description</div> <table> <tr> <td>Connector type</td><td>Circular connector panel mount</td><td>Circular connector panel mount</td><td>Circular connector panel mount</td></tr> <tr> <td>Conforms to</td><td>IEC 61076-2-104</td><td>IEC 61076-2-104</td><td>IEC 61076-2-104</td></tr> <tr> <td>Construction type</td><td>M8 A -Coding</td><td>M8 A -Coding</td><td>M8 A -Coding</td></tr> <tr> <td>Description</td><td>Circular connector M8 series,panel mount</td><td>Circular connector M8,panel mount,with contacts suitable for solder PCB.</td><td>Circular connector M8 series,panel mount, with PVC soldered wires.</td></tr> <tr> <td>Part number</td><td>08FP6000-M8X1</td><td>08FQ6000-M8X1</td><td>08FP6K0C-M8X1</td></tr> <tr> <td>Mounting type</td><td>Frontal side of the panel</td><td>Frontal side of the panel</td><td>Frontal side of the panel</td></tr> <tr> <td>Contacts type</td><td>Female</td><td>Female</td><td>Female</td></tr> <tr> <td>Number of contacts</td><td>6poles</td><td>6poles</td><td>6poles</td></tr> <tr> <td>Fixing Thread</td><td>M8 x 1</td><td>M8 x 1</td><td>M8 x 1</td></tr> </table> </div>				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	08FP6000-M8X1	08FQ6000-M8X1	08FP6K0C-M8X1	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																
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Type of termination	Contacts to solder wires	Contacts to solder PCB	Contacts to solder wires																																																				
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Wires lenght	-	-	0.3m																																																				
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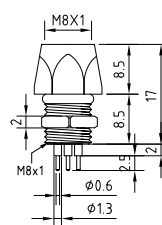
Technical drawing



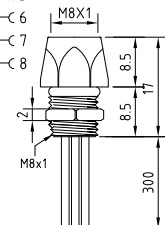
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○ — C 8



○ — C 1
○ — C 2
○ — C 3
○ — C 4
○ — C 5
○ — C 6
○ — C 7
○ — C 8



○ — C 1
● — C 2
● — C 3
● — C 4
● — C 5
● — C 6
● — C 7
● — C 8



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	08FP8000-M8X1	08FQ8000-M8X1	08FP8K0C-M8X1
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 ²
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
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Other accessories options

See accessories section

Notes:

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

M8 CIRCULAR CONNECTORS A-CODED

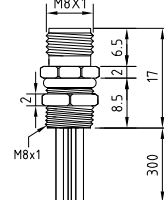
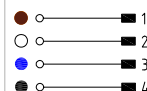
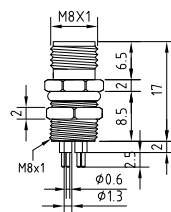
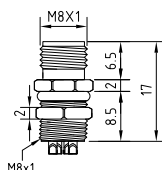
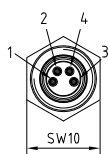
Panel mount connectors



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	08MP3000-M8X1	08MQ3000-M8X1	08MP3A0C-M8X1
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
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 ²
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 feautres: 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	08MP4000-M8X1	08MQ4000-M8X1	08MP4A0C-M8X1
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 ²
Conductor colours	-	-	Brown; White; Blue; Black
Cable diameter	-	-	-
Wires length	-	-	0.3m

Packaging

Qty/Bag	Not defined	Not defined	Not defined
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Other accessories options

See accessories section

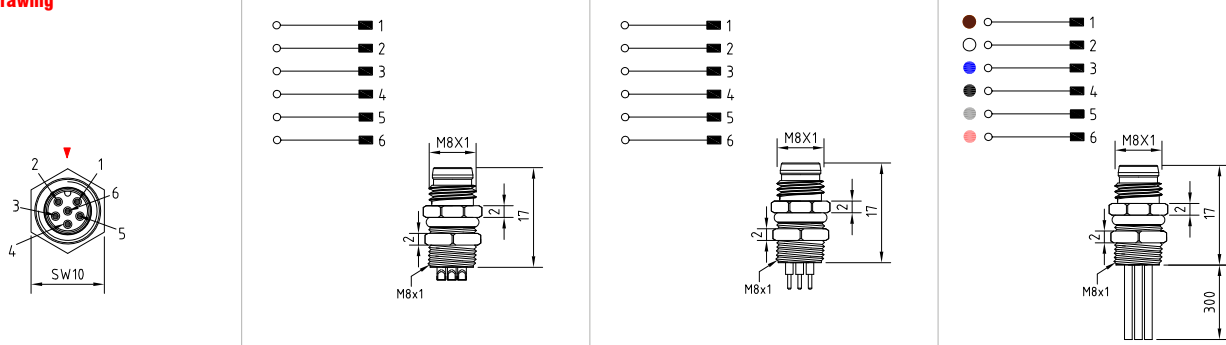
Notes:

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

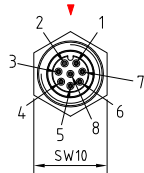
M8 CIRCULAR CONNECTORS A-CODED

Panel mount connectors



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	08MP6000-M8X1	08MQ6000-M8X1	08MP6K0C-M8X1
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
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 ²
Conductor colours	-	-	Brown; White; Blue; Black; Grey; Pink
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 feautres: 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	08MP8000-M8X1	08MQ8000-M8X1	08MP8K0C-M8X1
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 ²
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			

M8 CIRCULAR CONNECTORS A-CODED

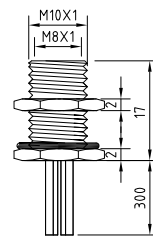
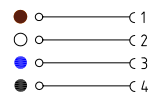
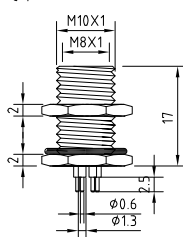
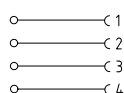
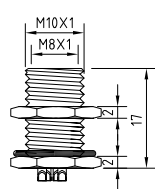
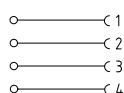
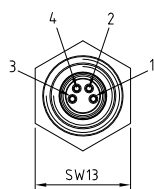
Panel mount connectors



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	08FR3000-M10X1	08FS3000-M10X1	08FR3A0C-M10X1
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
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	-	-	3x0.25mm ²
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 feautres: 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	08FR4000-M10X1	08FS4000-M10X1	08FR4A0C-M10X1
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 ²
Conductor colours	-	-	Brown; White; Blue; Black
Cable diameter	-	-	-
Wires length	-	-	0.3m

Packaging

Qty/Bag	Not defined	Not defined	Not defined
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Other accessories options

See accessories section

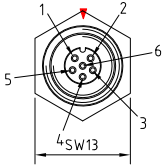
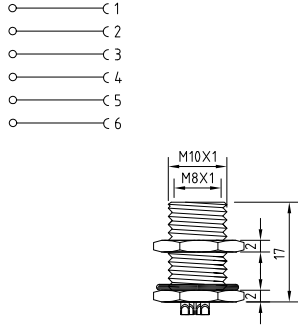
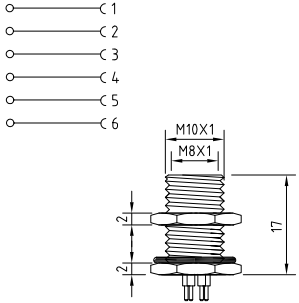
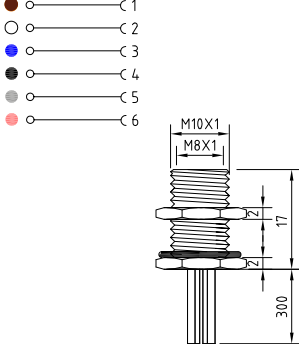
Notes:

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

M8 CIRCULAR CONNECTORS A-CODED

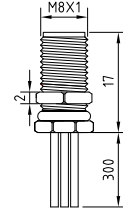
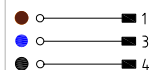
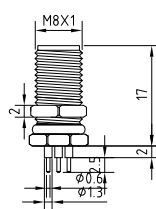
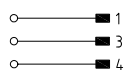
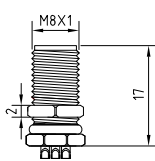
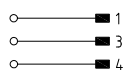
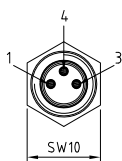
Panel mount connectors



<div> <div>Technical drawing</div> <div>     </div> </div>																																																							
<div> <div>Product description</div> <table> <tr> <td>Connector type</td><td>Circular connector panel mount</td><td>Circular connector panel mount</td><td>Circular connector panel mount</td></tr> <tr> <td>Conforms to</td><td>IEC 61076-2-104</td><td>IEC 61076-2-104</td><td>IEC 61076-2-104</td></tr> <tr> <td>Construction type</td><td>M8 A -Coding</td><td>M8 A -Coding</td><td>M8 A -Coding</td></tr> <tr> <td>Description</td><td>Circular connector M8 series,panel mount</td><td>Circular connector M8,panel mount,with contacts suitable for solder PCB.</td><td>Circular connector M8 series,panel mount, with PVC soldered wires.</td></tr> <tr> <td>Part number</td><td>08FR6000-M10X1</td><td>08FS6000-M10X1</td><td>08FR6K0C-M10X1</td></tr> <tr> <td>Mounting type</td><td>Back side of the panel</td><td>Back side of the panel</td><td>Back side of the panel</td></tr> <tr> <td>Contacts type</td><td>Female</td><td>Female</td><td>Female</td></tr> <tr> <td>Number of contacts</td><td>6poles</td><td>6poles</td><td>6poles</td></tr> <tr> <td>Fixing Thread</td><td>M10 x 1</td><td>M10 x 1</td><td>M10 x 1</td></tr> </table> </div>				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	08FR6000-M10X1	08FS6000-M10X1	08FR6K0C-M10X1	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																
Connector type	Circular connector panel mount	Circular connector panel mount	Circular connector panel mount																																																				
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Type of termination	Contacts to solder wires	Contacts to solder PCB	Contacts to solder wires																																																				
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<div> <div>Packaging</div> <table> <tr> <td>Qty/Bag</td><td>Not defined</td><td>Not defined</td><td>Not defined</td></tr> </table> </div>				Qty/Bag	Not defined	Not defined	Not defined																																																
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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	08MR3000-M8X1	08MS3000-M8X1	08MR3A0C-M8X1
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 ²
Conductor colours	-	-	Brown; Blue; Black
Cable diameter	-	-	-
Wires length	-	-	0.3m

Packaging

Qty/Bag	Not defined	Not defined	Not defined
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Other accessories options

See accessories section

Notes:

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

Panel mount connectors

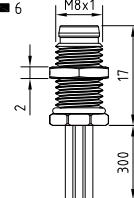
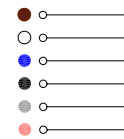
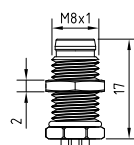
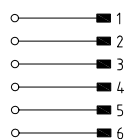
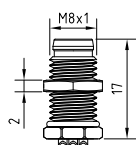
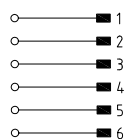
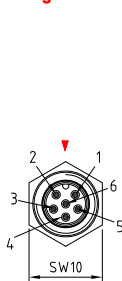
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M8 CIRCULAR CONNECTORS A-CODED

Panel mount connectors



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	08MR6000-M8X1	08MS6000-M8X1	08MR6K0C-M8X1
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 ²
Conductor colours	-	-	Brown; White; Blue; Black; Grey; Pink
Cable diameter	-	-	-
Wires lenght	-	-	0.3m

Packaging

Qty/Bag	Not defined	Not defined	Not defined
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Other accessories options

See accessories section

Notes:

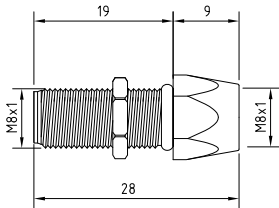
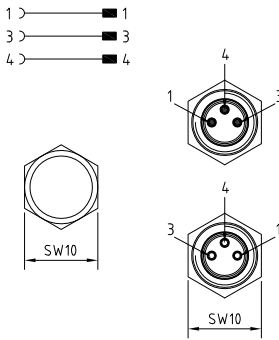
Connectors available with different features:
See the general features and codification scheme page

M8 CIRCULAR CONNECTORS A-CODED
Panel mount connectors



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	08MR8000-M8X1	08MS8000-M8X1	08MR8K0C-M8X1
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
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	-	-	8x0.14mm²
Conductor colours	-	-	White;Brown;Green;Yellow;Grey;Pink;Blue;Red
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 feautres: See the general features and codification scheme page			



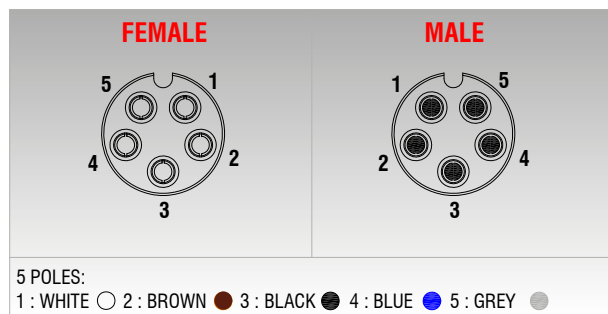
Technical drawing		
		
		
Product description		
Connector type	Circular connector panel mount	Circular connector panel mount
Conforms to	IEC 61076-2-104	IEC 61076-2-104
Construction type	M8 A -Coding	M8 A -Coding
Description	Adapter Female - Male M8 series circular connector, panel mount	Adapter Female - Male M8 series circular connector, panel mount
Part number	08FP3-08MP-M8X1	08FP4-08MP-M8X1
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
Packaging		
Qty/Bag	Not definited	Not definited
Other accessories options		
See accessories section		
Notes:		



M9 CIRCULAR CONNECTORS

M9 CIRCULAR CONNECTORS

Moulded cable connectors - General features and codification scheme



GENERAL FEATURES OF MOULDED CONNECTORS:

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

Type of terminations :
To solder wires.

Internal core material :
PA66.

Protection class :
IP 67

Fixing system :
M9 coupling nut.

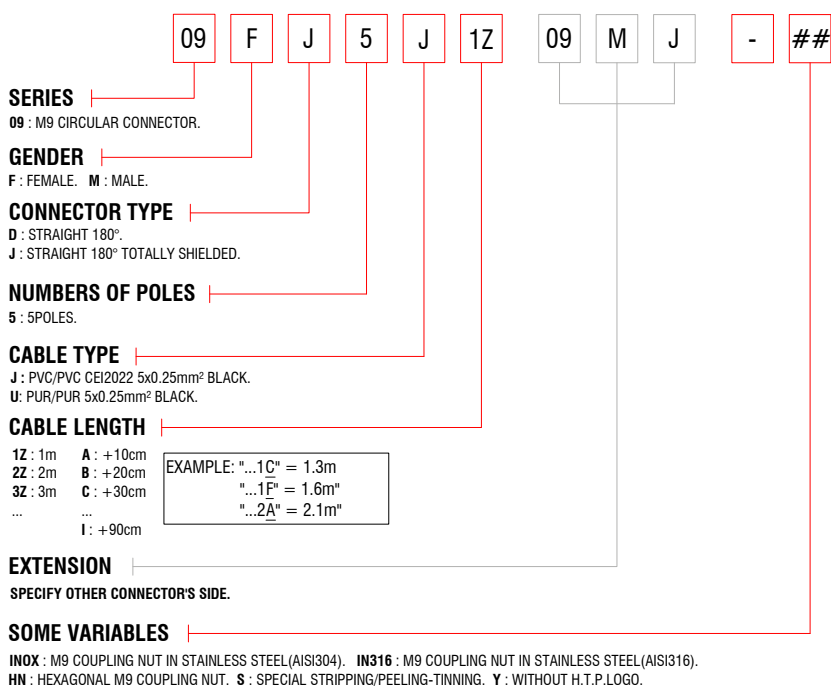
Contact material and treatment :
Brass + Gold flash.

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


Operating temperature :
-25°C +90°C.

Max. screw torque IEC60947-1
M9 coupling nut torque 0.2 N*m

Housing material :
Polypropylene (Black).



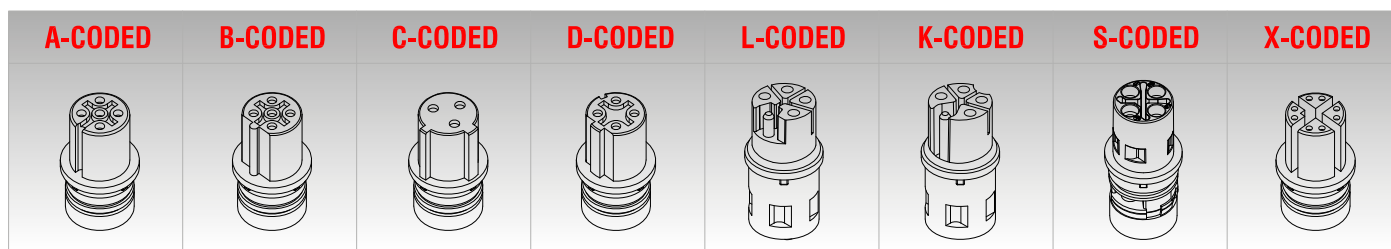
M9 CONNECTORS CABLE:

Code	Material	Type of cable	Colour	Section	No.core	Cable ø 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


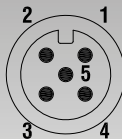
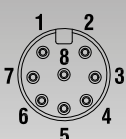
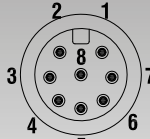
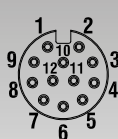
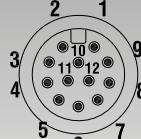


M12 CIRCULAR CONNECTORS

• CODING OF M12 CONNECTORS:



• M12 A-CODED I/O NETWORKS:


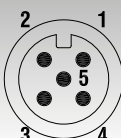
FEMALE	MALE	FEMALE	MALE	FEMALE	MALE
					
3 POLES: 1 : BROWN ● 3 : BLUE ● 4 : BLACK ●		8 POLES: 1 : WHITE ○ 2 : BROWN ● 3 : GREEN ● 4 : YELLOW ● 5 : GREY ● 6 : PINK ● 7 : BLUE ● 8 : RED ●		12 POLES: 1 : BROWN ● 2 : BLUE ● 3 : WHITE ○ 4 : GREEN ● 5 : PINK ● 6 : YELLOW ● 7 : BLACK ● 8 : GREY ● 9 : RED ● 10 : PURPLE ● 11 : PINK/GREY ● 12 : RED/BLUE ●	
4 POLES: 1 : BROWN ● 2 : WHITE ○ 3 : BLUE ● 4 : BLACK ●					
5 POLES: 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.


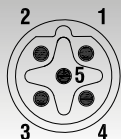
• M12 A-CODED DEVICENET NETWORKS:




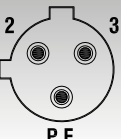
FEMALE	MALE	5 POLES:
		1 : SHIELD ● 2 : RED ● 3 : BLACK ● 4 : WHITE ○ 5 : BLUE ●

• M12 B-CODED PROFIBUS NETWORKS:



FEMALE	MALE	5 POLES:
		2 : GREEN ● 4 : RED ● 5 : SHIELD ● TOTALLY SHIELDED CONNECTOR 360°


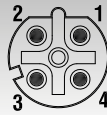

• M12 C-CODED I/O NETWORKS:

FEMALE	MALE	3 POLES (2P+P.E.):
		1 (P.E.) : YELLOW/GREEN ● 2 : BLUE ● 3 : BROWN ●
P.E.	P.E.	


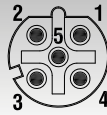

M12 CIRCULAR CONNECTORS

Technical informations

M12 D-CODED PROFINET/ETHERCAT NETWORKS:

FEMALE 	MALE 	5 POLES: 1 : YELLOW 2 : WHITE 3 : ORANGE 4 : BLUE TOTALLY SHIELDED CONNECTOR 360°	
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M12 D-CODED ETHERNET NETWORKS:

FEMALE 	MALE 	5 POLES: 1 : WHITE -ORANGE 2 : ORANGE 3 : WHITE/GREEN 4 : GREEN 5 : SHIELD TOTALLY SHIELDED CONNECTOR 360°	
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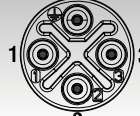
M12 K-CODED POWER CONNECTOR :

FEMALE P.E. 	MALE P.E. 	5 POLES (4P+P.E.): 1 : BLACK 1 2 : BLACK 2 3 : BLACK 3 4 : BLACK 4 5(P.E.) : YELLOW/GREEN	5 POLES TOTALLY SHIELDED (4P+P.E.): 1 : BLACK 1 2 : BLACK 2 3 : BLACK 3 4 : BLACK 4 5(P.E.) : YELLOW/GREEN TOTALLY SHIELDED CONNECTOR 360° + SHIELD CONNECTED TO P.E.
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M12 L-CODED POWER CONNECTOR :

FEMALE F.E. 	MALE F.E. 	5 POLES (4P+FE): 1 : BROWN 2 : WHITE 3 : BLUE 4 : BLACK FE : GREY	5 POLES TOTALLY SHIELDED (4P+FE): 1 : BROWN 2 : WHITE 3 : BLUE 4 : BLACK FE : GREY TOTALLY SHIELDED CONNECTOR 360°
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M12 S-CODED POWER CONNECTOR :

FEMALE P.E. 	MALE P.E. 	4 POLES (3P+P.E.): 1 : BLACK 1 2 : BLACK 2 3 : BLACK 3 4(P.E.) : YELLOW/GREEN	4 POLES TOTALLY SHIELDED (3P+P.E.): 1 : BLACK 1 2 : BLACK 2 3 : BLACK 3 4(P.E.) : YELLOW/GREEN TOTALLY SHIELDED CONNECTOR 360°
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M12 X-CODED ETHERNET NETWORKS:

FEMALE 	MALE 	8 POLES: 1 : WHITE -ORANGE 2 : ORANGE 3 : WHITE/GREEN 4 : GREEN 5 : WHITE/BROWN 6 : BROWN 7 : WHITE/BLUE 8 : BLUE TOTALLY SHIELDED CONNECTOR 360°	
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• 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 :

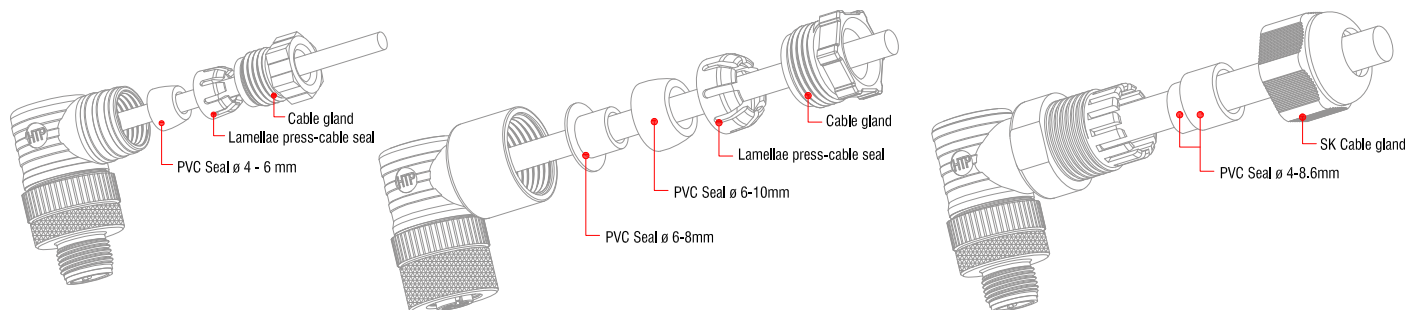
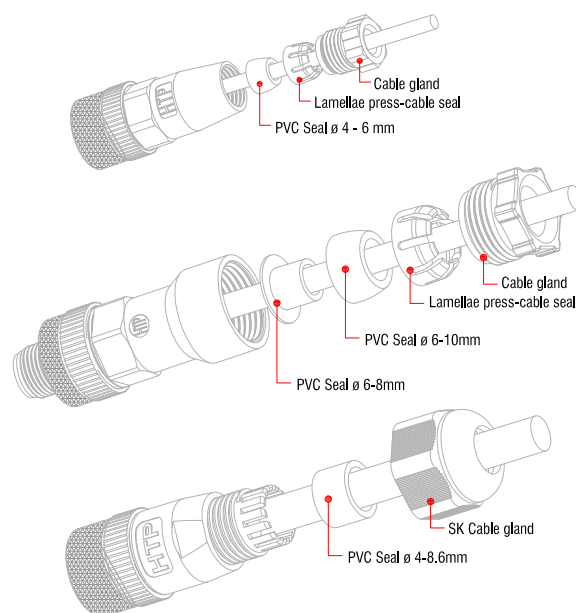
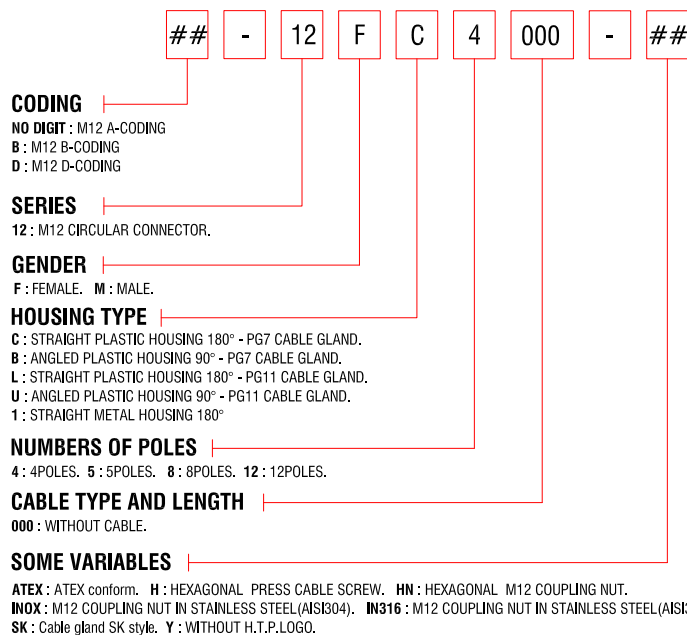
M12 coupling nut.

Housing material :

PA66 UL94-V2.

PA66 UL94-V0 ATEX approved.

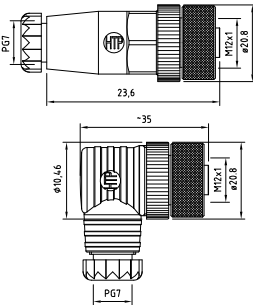

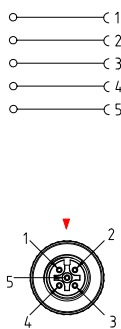
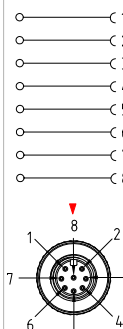
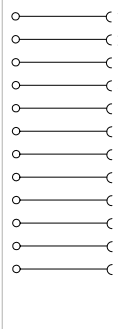
Brass + Nickel plated.



M12 CIRCULAR CONNECTORS

A-coded - Field attachable connectors



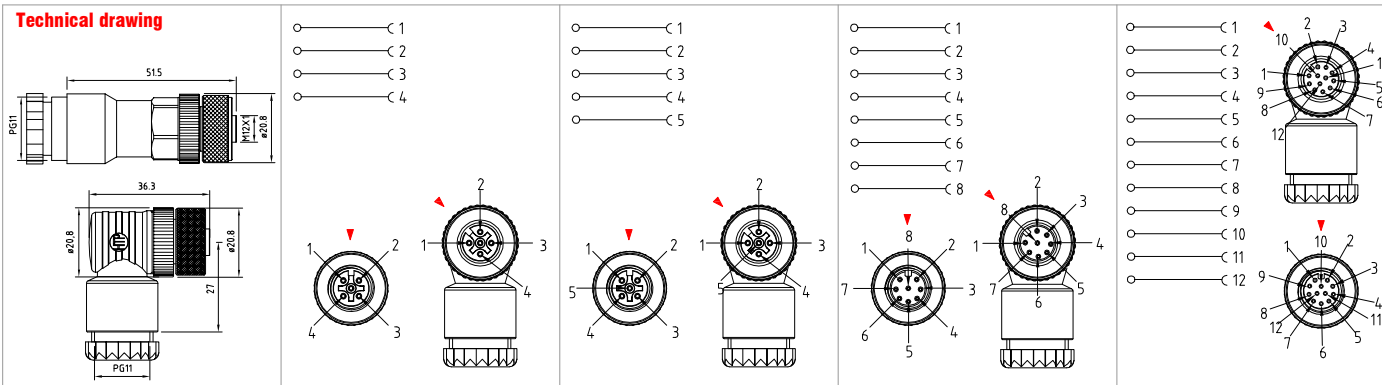
Technical drawing									
									
Product description									
Connector type	Circular connector field attachable			Circular connector field attachable			Circular connector field attachable		
Conforms to	IEC 61076-2-101			IEC 61076-2-101			IEC 61076-2-101		
Construction type	M12 A-Coded			M12 A-Coded			M12 A-Coded		
Part number	12FC4000	12FB4000	12FC5000	12FB5000	12FC8000	12FB8000	12FC12000	12FB12000	
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		
Description	Circular connector M12 series field attachable			Circular connector M12 series field attachable			Circular connector M12 series field attachable		
Contacts type	Female			Female			Female		
Number of contacts	4poles			5poles			12poles		
Housing colour	Black			Black			Black		
Technical data									
Type of termination	Screw contacts			Screw contacts			Solder contacts		
Contact screw torque	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		
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			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 4 - 6mm			ø 4 - 6mm			ø 4 - 6mm		
Packaging									
Qty/Bag	1 pc / bag			1 pc / bag			1 pc / bag		
Other accessories options									
See accessories section									
Notes:									
Connectors available with different featurates: See the general features and codification scheme page									

M12 CIRCULAR CONNECTORS

A-coded - Field attachable connectors



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	12FL4000	12FU4000	12FL5000	12FU5000	12FL8000	12FU8000	12FL12000	12FU12000
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 Double exit Ø5mm(max.)		Ø cable 6-10mm Double exit Ø5mm(max.)		Ø cable 6-10mm Double exit Ø5mm(max.)		Ø cable 6-10mm Double exit Ø5mm(max.)	

Packaging

Qty/Bag	1 pc / bag	1 pc / bag	1 pc / bag	1 pc / bag
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Other accessories options

See accessories section

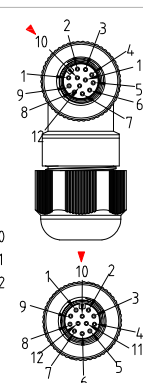
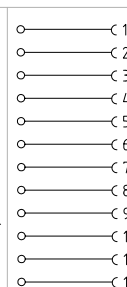
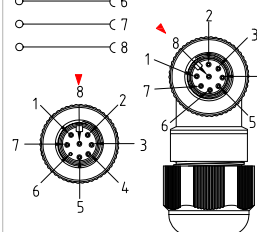
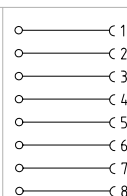
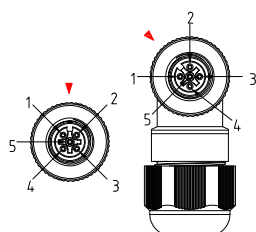
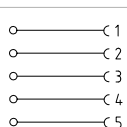
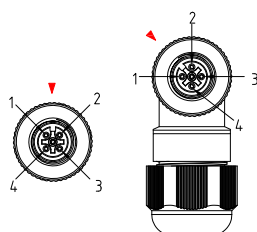
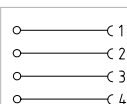
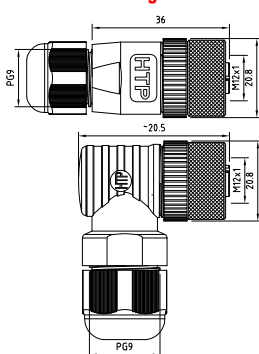
Notes:

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

M12 CIRCULAR CONNECTORS



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	12FC4000-SK	12FB4000-SK	12FC5000-SK	12FB5000-SK	12FC8000-SK	12FB8000-SK	12FC12000-SK	12FB12000-SK
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	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
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

Packaging

Qty/Bag	1 pc / bag	1 pc / bag	1 pc / bag	1 pc / bag
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Other accessories options

See accessories section

Notes:

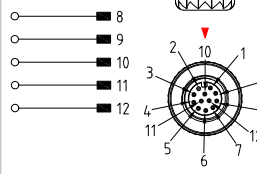
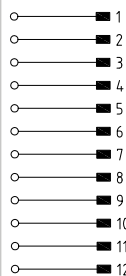
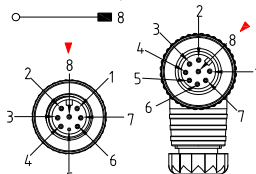
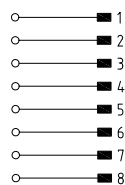
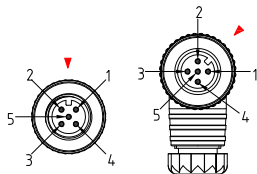
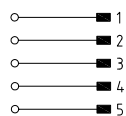
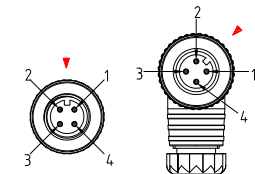
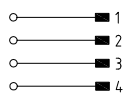
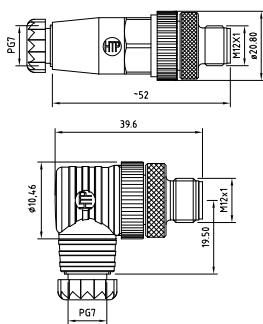
Connectors available with different features:
See the general features and codification scheme page

M12 CIRCULAR CONNECTORS

A-coded - Field attachable connectors



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	12MC4000	12MB4000	12MC5000	12MB5000	12MC8000	12MB8000	12MC12000	12MB12000
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
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Other accessories options

See accessories section

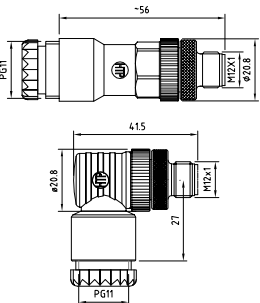
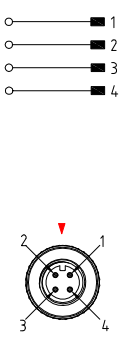
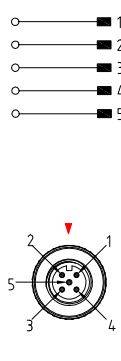
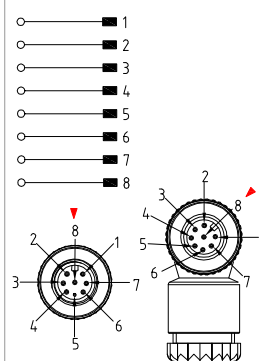
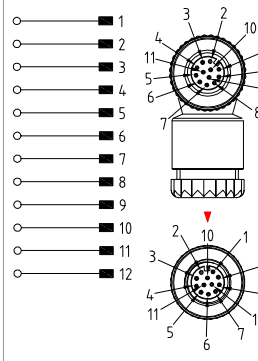
Notes:

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

M12 CIRCULAR CONNECTORS

A-coded - Field attachable connectors



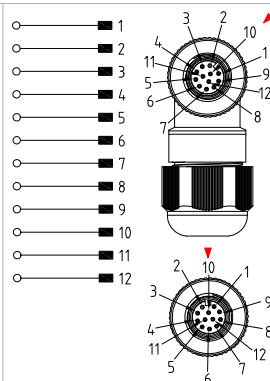
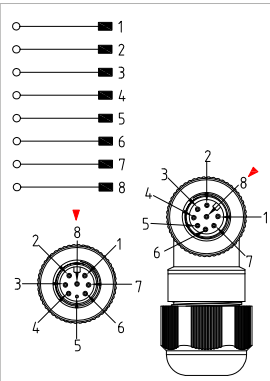
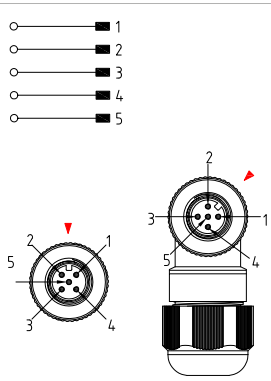
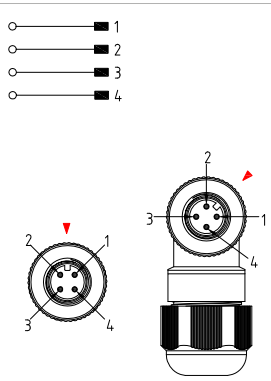
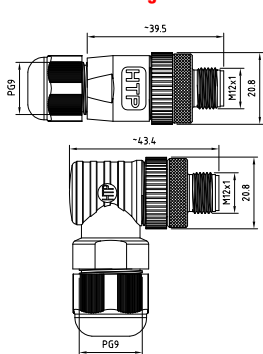
Technical drawing						
Product description						
Connector type	Circular connector field attachable		Circular connector field attachable		Circular connector field attachable	
Conforms to	IEC 61076-2-101		IEC 61076-2-101		IEC 61076-2-101	
Construction type	M12 A-Coded		M12 A-Coded		M12 A-Coded	
Part number	12ML4000	12MU4000	12ML5000	12MU5000	12ML8000	12MU8000
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		12poles	
Housing colour	Black		Black		Black	
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	
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 Double exit ø5mm(max.)		ø cable 6-10mm Double exit ø5mm(max.)		ø cable 6-10mm Double exit ø5mm(max.)	
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						

M12 CIRCULAR CONNECTORS

A-coded - Field attachable connectors



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	12MC4000-SK	12MB4000-SK	12MC5000-SK	12MB5000-SK	12MC8000-SK	12MB8000-SK	12MC12000-SK	12MB12000-SK
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
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Other accessories options

See accessories section

Notes:

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

M12 CIRCULAR CONNECTORS

A-coded - Field attachable connectors



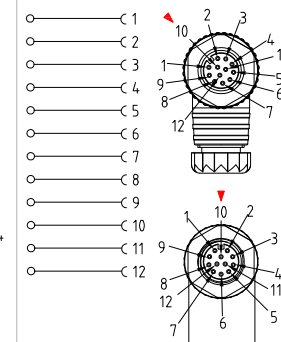
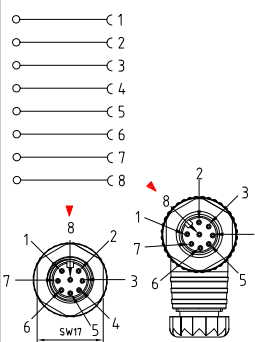
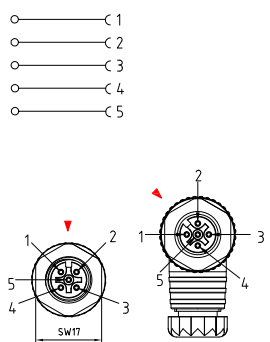
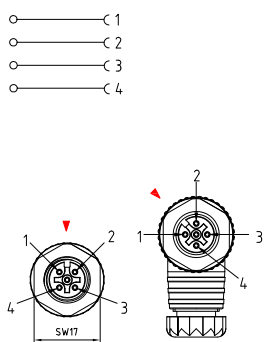
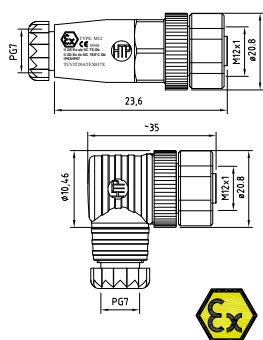
Technical drawing									
Product description									
Connector type	Circular connector field attachable		Circular connector field attachable		Circular connector field attachable		Circular connector field attachable		
Conforms to	IEC 61076-2-101		IEC 61076-2-101		IEC 61076-2-101		IEC 61076-2-101		
Construction type	M12 A-Coded		M12 A-Coded		M12 A-Coded		M12 A-Coded		
Part number	12F14000	12M14000	12F15000	12M15000	12F18000	12M18000	12F112000	12M112000	
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		
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	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		
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									

M12 CIRCULAR CONNECTORS

A-coded - Field attachable connectors



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	12FC4000-ATEX	12FB4000-ATEX	12FC5000-ATEX	12FB5000-ATEX	12FC8000-ATEX	12FB8000-ATEX	12FC12000-ATEX	12FB12000-ATEX
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
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Other accessories options

See accessories section

Notes:

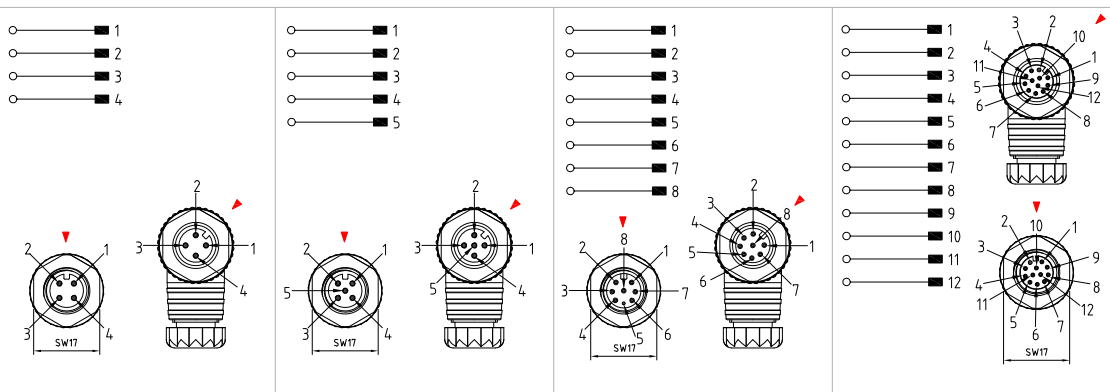
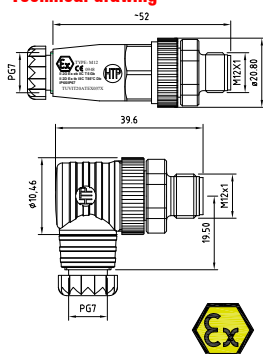
Connectors available with different features:
See the general features and codification scheme page

M12 CIRCULAR CONNECTORS

A-coded - Field attachable connectors



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	12MC4000-ATEX	12MB4000-ATEX	12MC5000-ATEX	12MB5000-ATEX	12MC8000-ATEX	12MB8000-ATEX	12MC12000-ATEX	12MB12000-ATEX
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
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Other accessories options

See accessories section

Note:

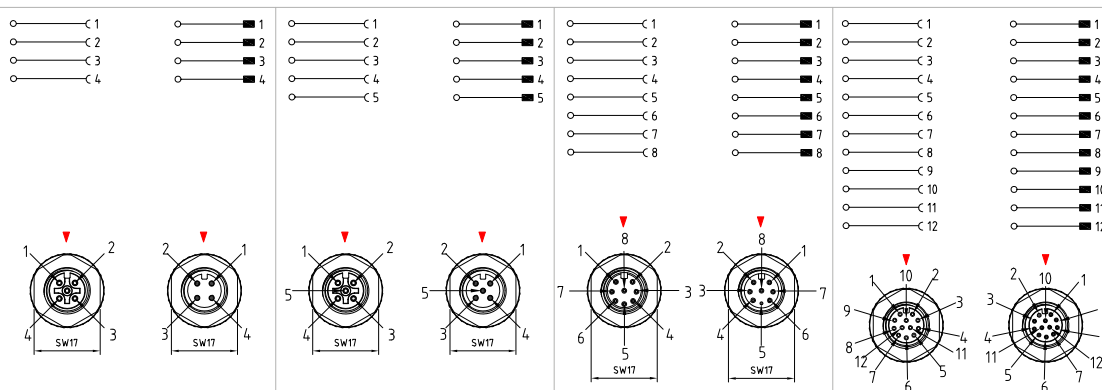
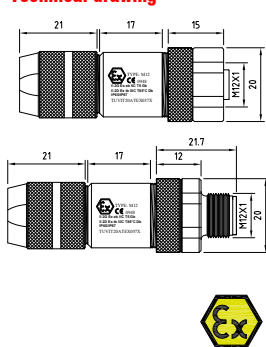
Connectors available with different features:
See the general features and codification scheme page

M12 CIRCULAR CONNECTORS

A-coded - Field attachable connectors



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	12F14000-ATEX	12M14000-ATEX	12F15000-ATEX	12M15000-ATEX	12F18000-ATEX	12M18000-ATEX	12F112000-ATEX	12M112000-ATEX
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
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Other accessories options

See accessories section

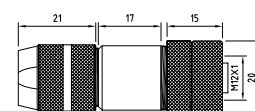
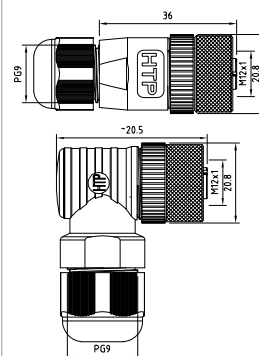
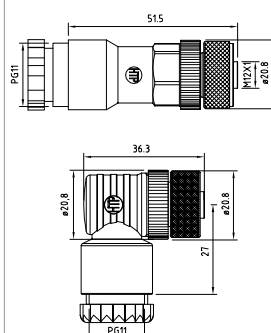
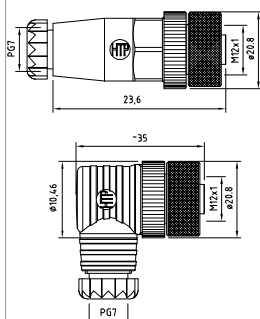
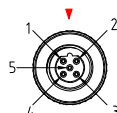
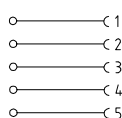
Notes:

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

M12 CIRCULAR CONNECTORS



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-12FC5000	B-12FB5000	B-12FL5000	B-12FU5000	B-12FC5000-SK	B-12FB5000-SK	B-12F15000
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	Female		Female		Female		Female
Number of contacts	5poles		5poles		5poles		5poles
Housing colour	Black		Black		Black		Metal

Technical data

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 6-10mm 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
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Other accessories options

See accessories section

Notes:

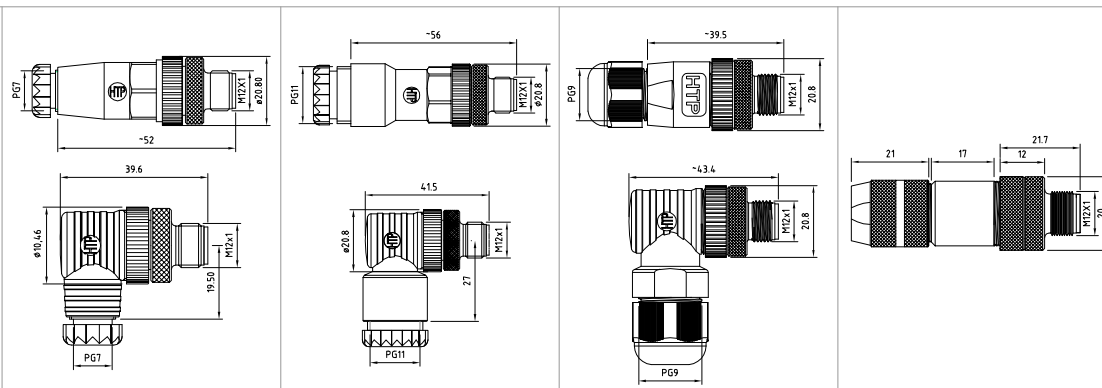
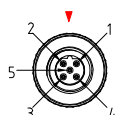
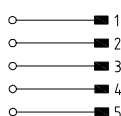
Connectors available with different features:
See the general features and codification scheme page
See the cables list section

M12 CIRCULAR CONNECTORS

B-coded - Field attachable connectors



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-12MC5000	B-12MB5000	B-12ML5000	B-12MU5000	B-12MC5000-SK	B-12MB5000-SK	B-12M15000
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 ø cable 6-10mm 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
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Other accessories options

See accessories section

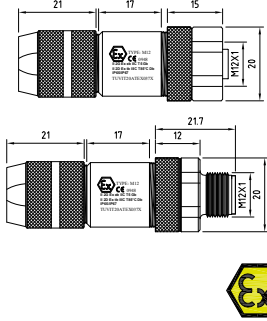
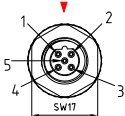
Notes:

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

M12 CIRCULAR CONNECTORS

B-coded - Field attachable connectors



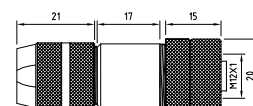
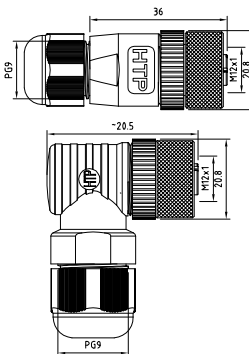
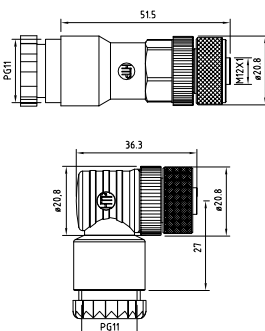
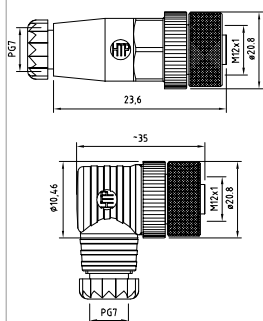
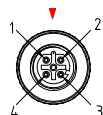
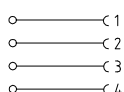
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Product description			
Connector type	Circular connector field attachable	Circular connector field attachable	
Conforms to	IEC 61076-2-101	IEC 61076-2-101	
Construction type	M12 B-Coded	M12 B-Coded	
Part number	B-12F15000-ATEX	B-12M15000-ATEX	
Housing 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	
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	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	
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			

M12 CIRCULAR CONNECTORS

D-coded - Field attachable connectors



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 D-Coded		M12 D-Coded		M12 D-Coded		M12 D-Coded
Part number	D-12FC4000	D-12FB4000	D-12FL4000	D-12FU4000	D-12FC4000-SK	D-12FB4000-SK	D-12F14000
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 D-coded, field attachable		Circular connector M12 series D-coded, field attachable		Circular connector M12 series D-coded, field attachable		Circular connector M12 series D-coded, field attachable
Contacts type	Female		Female		Female		Female
Number of contacts	4poles		4poles		4poles		4poles
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	250V AC/DC		250V AC/DC		250V AC/DC		250V 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 6-10mm 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
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Other accessories options

See accessories section

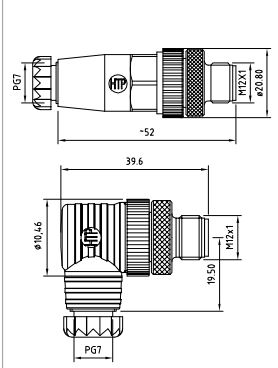
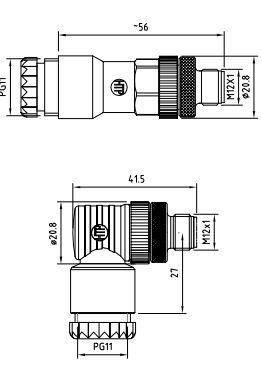
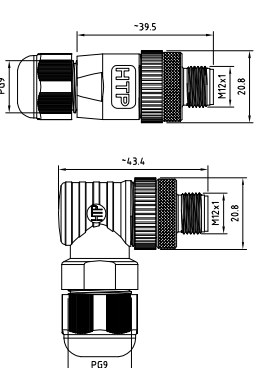
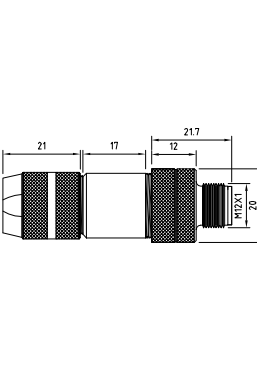
Notes:

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

M12 CIRCULAR CONNECTORS

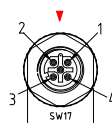
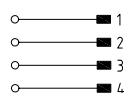
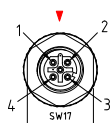
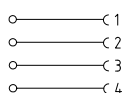
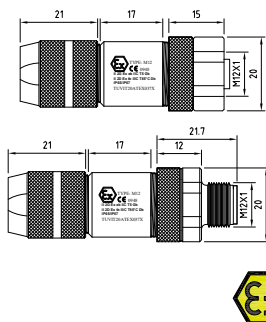
D-coded - Field attachable connectors



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 D-Coded		M12 D-Coded		M12 D-Coded		M12 D-Coded	
Part number		D-12MC4000 D-12MB4000		D-12ML4000 D-12MU4000		D-12MC4000-SK D-12MB4000-SK		D-12M14000	
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 D-coded,field attachable		Circular connector M12 series D-coded,field attachable		Circular connector M12 series D-coded,field attachable		Circular connector M12 series D-coded,field attachable	
Contacts type		Male		Male		Male		Male	
Number of contacts		4poles		4poles		4poles		4poles	
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		250V AC/DC		250V AC/DC		250V AC/DC		250V 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 6-10mm 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									



Technical drawing



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	D-12F14000-ATEX	D-12M14000-ATEX	
Housing type	Straight 180°	Straight 180°	
Cable gland	PG9 standard	PG9 standard	
Description	Circular connector M12 series D-coded,ATEX conf.,field attachable	Circular connector M12 series 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	
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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

M12 CIRCULAR CONNECTORS

Moulded cable connectors - General features and codification scheme



• GENERAL FEATURES OF MOULDED CONNECTORS:

Conductor cross section : 0.08(28AWG)...0.75mm²(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).	

##

-

12

F

D

3

A

1Z

12

M

D

-

##

CODING
NO DIGIT : M12 A-CODING
B : M12 B-CODING
C : M12 C-CODING
D : M12 D-CODING
K : M12 K-CODING
L : M12 L-CODING
S : M12 S-CODING
X : M12 X-CODING

SERIES
12 : M12 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.

NUMBERS OF POLES
3 : 3POLES 4 : 4POLES 5 : 5POLES 8 : 8POLES 12 : 12POLES

CABLE TYPE
SEE CABLES FEATURES PAGE ##

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

EXTENSION
SPECIFY OTHER CONNECTOR'S SIDE

SOME VARIABLES
INOX or IN : M12 COUPLING NUT IN STAINLESS STEEL(AISI304). IN316 : M12 COUPLING NUT IN STAINLESS STEEL(AISI316).
HN : HEXAGONAL M12 COUPLING NUT. S : SPECIAL STRIPPING/PEELING-TINNING. Y : WITHOUT H.T.P.LOGO. UL : UL APPROVED.

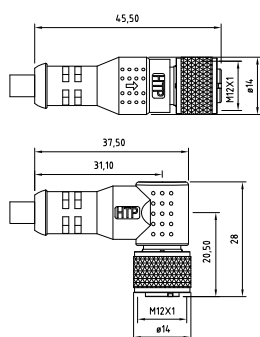
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"...1F" = 1.6m
"...2A" = 2.1m

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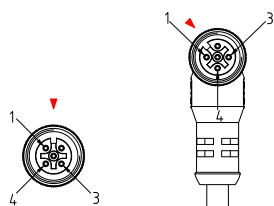
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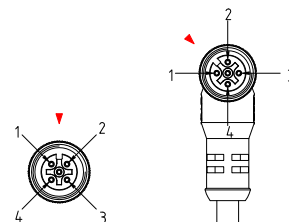
Technical drawing



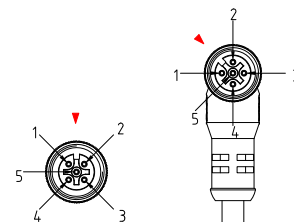
- — C 1
- — C 3
- — C 4



- — 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	12FD3B1Z	12FA3B1Z	12FD4B1Z	12FA4B1Z	12FD5B1Z	12FA5B1Z
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 ²		4x0.34mm ²		5x0.34mm ²	
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
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Other accessories options

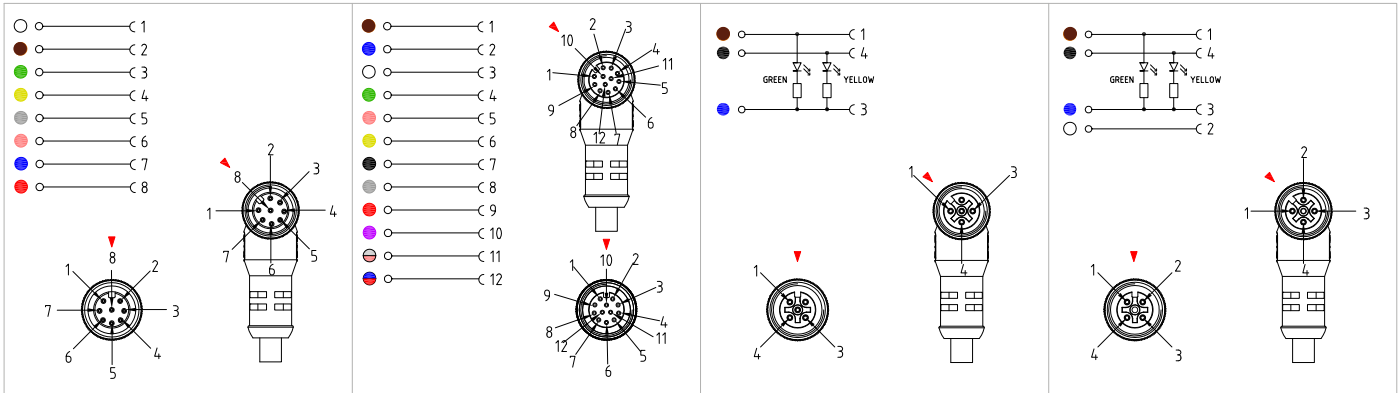
See accessories section

Notes:

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

M12 CIRCULAR CONNECTORS

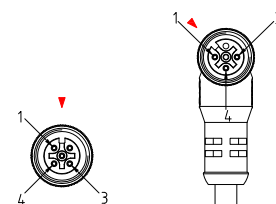
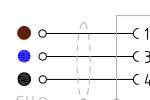
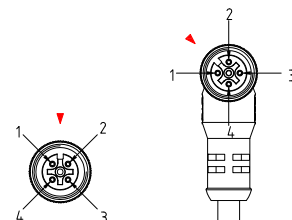
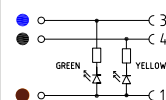
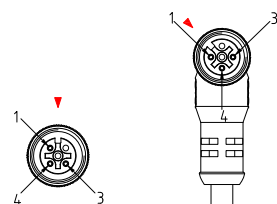
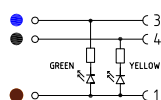
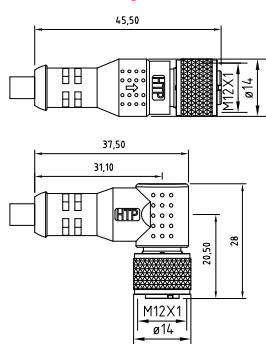
Moulded cable connectors - A-coded



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 PNP circuit (PIN1: GN;PIN4:YE)with moulded cable		Circular connector M12 series n.2 Led PNP circuit (PIN1: GN;PIN4:YE)with moulded cable	
12FD8A1Z	12FA8A1Z	12FD12K1Z	12FA12K1Z	12FG3B1Z	12FF3B1Z	12FG4B1Z	12FF4B1Z
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		0.4 N*m	
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	
8x0.25mm²		12x0.14mm²		3x0.34mm²		4x0.34mm²	
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 NPN circuit (PIN3: GN;PIN4:YE)with moulded cable		Circular connector M12 series n.2 Led NPN circuit (PIN3: GN;PIN4:YE)with moulded cable		Circular connector M12 series TOTALLY SHIELDED with moulded cable	
Part number	12FH3B1Z	12FE3B1Z	12FH4B1Z	12FE4B1Z	12FJ3F1Z	12FV3F1Z
Housing type	Straight 180°		Straight 180°		Straight 180°	
	Angled 90°		Angled 90°		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 ²		4x0.34mm ²		3x0.34mm ²	
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
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Other accessories options

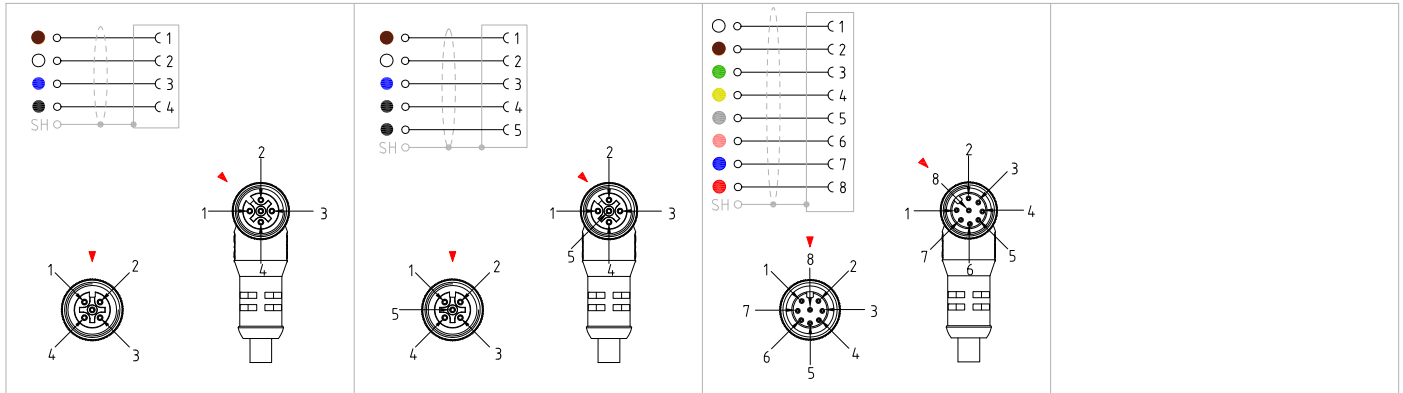
See accessories section

Notes:

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

M12 CIRCULAR CONNECTORS

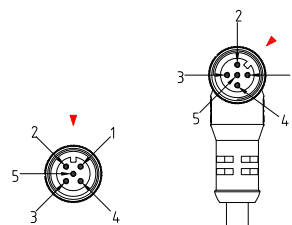
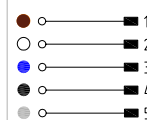
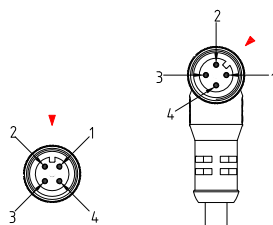
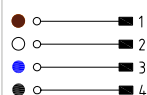
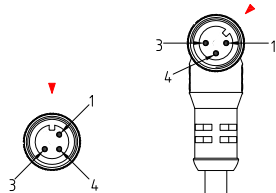
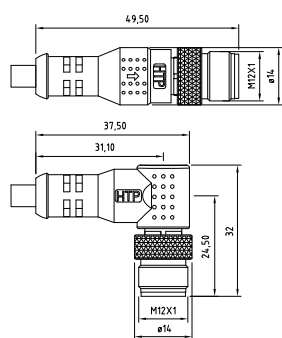
Moulded cable connectors - A-coded



Product description					
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	
12FJ4F1Z	12FV4F1Z	12FJ5F1Z	12FV5F1Z	12FJ8J1Z	12FV8J1Z
Straight 180°	Angled 90°	Straight 180°	Angled 90°	Straight 180°	Angled 90°
Moulded cable		Moulded cable		Moulded cable	
Female		Female		Female	
4poles		5poles		8poles	
Black		Black		Black	
Technical data					
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	
Packaging					
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 with moulded cable		Circular connector M12 series with moulded cable		Circular connector M12 series with moulded cable	
Part number	12MD3B1Z	12MA3B1Z	12MD4B1Z	12MA4B1Z	12MD5B1Z	12MA5B1Z
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 ²		4x0.34mm ²		5x0.34mm ²	
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
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Other accessories options

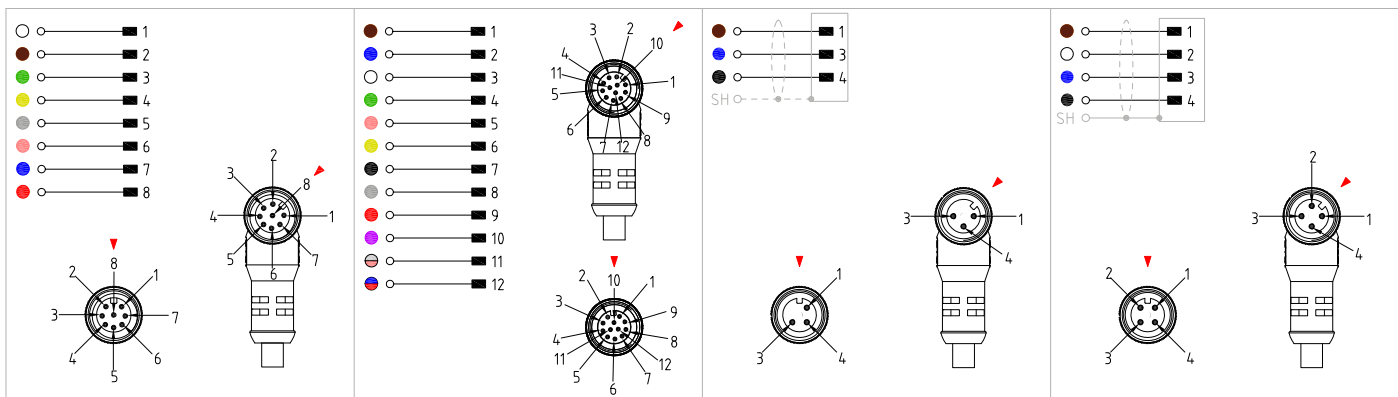
See accessories section

Notes:

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

M12 CIRCULAR CONNECTORS

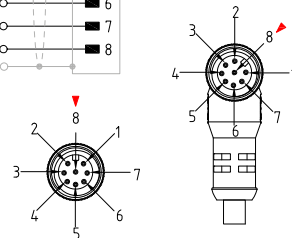
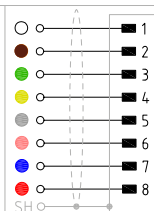
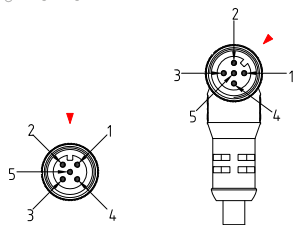
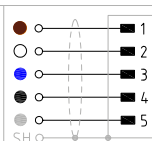
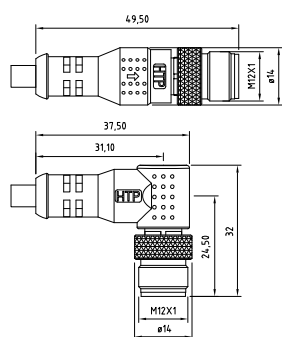
Moulded cable connectors - A-coded



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 TOTALLY SHIELDED with moulded cable		Circular connector M12 series TOTALLY SHIELDED with moulded cable	
12MD8A1Z	12MA8A1Z	12MD12K1Z	12MA12K1Z	12MJ3F1Z	12MV3F1Z	12MJ4F1Z	12MV4F1Z
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		12poles		3poles		4poles	
Black		Black		Black		Black	
Technical data							
Contacts to solder wires		Contacts to solder 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		30V AC/DC		250V AC/DC		250V AC/DC	
2A		1.5A		4A		4A	
-		-		-		-	
PVC/PVC CEI2022		PVC/PVC CEI2022		PVC/PVC CEI2022 SHIELDED		PVC/PVC CEI2022 SHIELDED	
Black		Black		Black		Black	
8x0.25mm²		12x0.14mm²		3x0.34mm²		4x0.34mm²	
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)		ø5.2mm (±0.3)		ø5.5mm (±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	
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	12MJ5F1Z	12MV5F1Z	12MJ8J1Z	12MV8J1Z
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	5x0.34mm ²	8x0.25mm ²
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
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Other accessories options

See accessories section

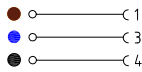
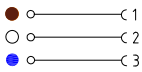
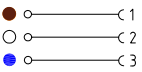
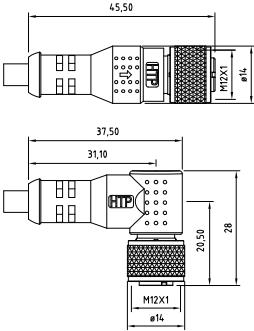
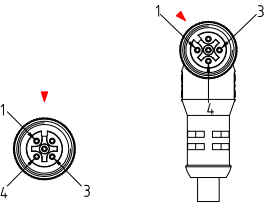
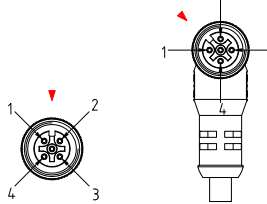
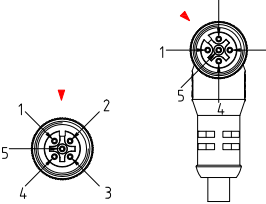
Notes:

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

M12 CIRCULAR CONNECTORS

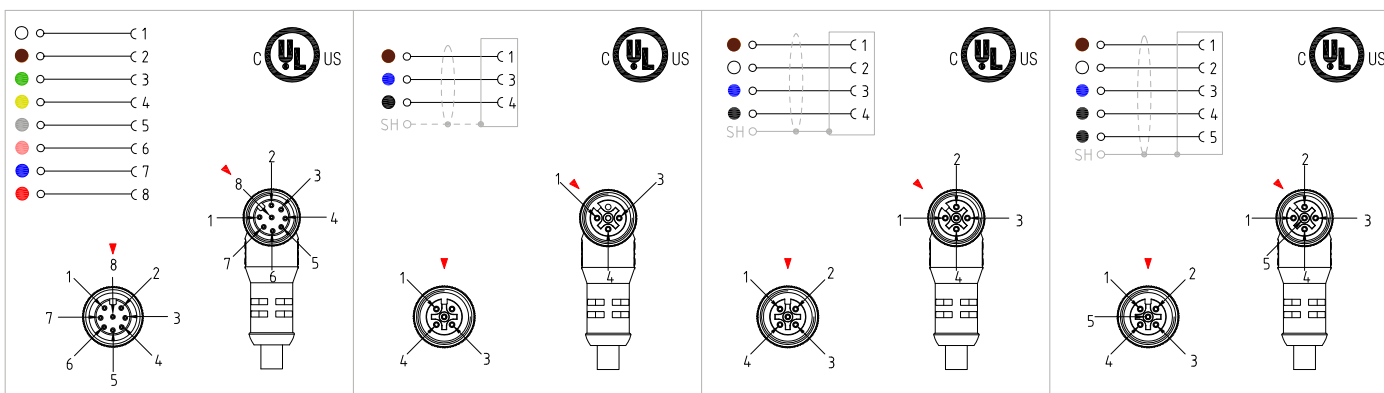
Moulded cable connectors - A-coded



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,ULapproved, with moulded cable		Circular connector M12 series,ULapproved, with moulded cable		Circular connector M12 series,ULapproved, with moulded cable		
Part number	12FD311Z-UL	12FA311Z-UL	12FD411Z-UL	12FA411Z-UL	12FD511Z-UL	12FA511Z-UL	
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 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		
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							

M12 CIRCULAR CONNECTORS

Moulded cable connectors - A-coded



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, UL approved, 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	Circular connector M12 series, UL approved, TOTALLY SHIELDED with moulded cable
12FD8S1Z-UL	12FA8S1Z-UL	12FJ331Z-UL	12FV331Z-UL
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 (0.25mm ²)	3xAWG22 (0.34mm ²)	4xAWG22 (0.34mm ²)	5xAWG22 (0.34mm ²)
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)	ø5.5 (±0.3)	ø6mm (±0.3)
1m	1m	1m	1m

Packaging

1 pc / bag	1 pc / bag	1 pc / bag	1 pc / bag
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Other accessories options

See accessories section

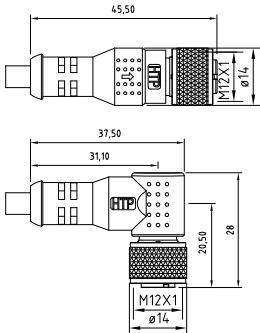
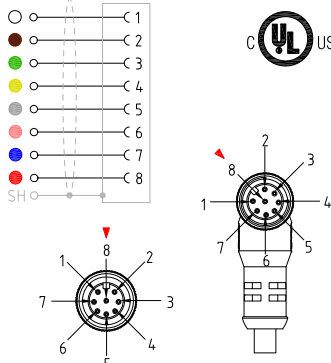
Notes:

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

M12 CIRCULAR CONNECTORS

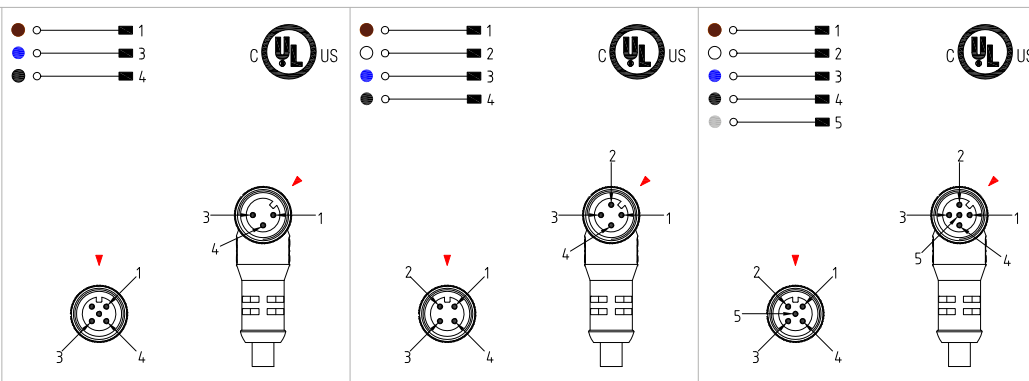
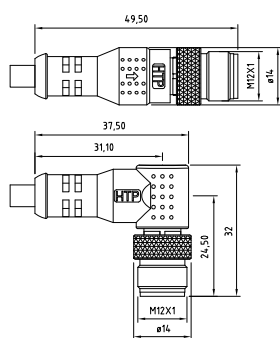
Moulded cable connectors - A-coded



Technical drawing			
			
Product description			
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	12FJ8P1Z-UL	12FV8P1Z-UL	
Housing type	Straight 180°	Angled 90°	
Cable gland	Moulded cable		
Contacts type	Female		
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		
Cable type	PVC/PVC ULstyle 21179 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 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		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	12MD3I1Z-UL	12MA3I1Z-UL	12MD4I1Z-UL	12MA4I1Z-UL	12MD5I1Z-UL	12MA5I1Z-UL
Housing type	Straight 180°		Angled 90°		Straight 180°	
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 (0.34mm ²)		4xAWG22 (0.34mm ²)		5xAWG22 (0.34mm ²)	
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
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Other accessories options

See accessories section

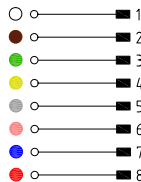
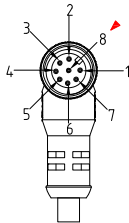
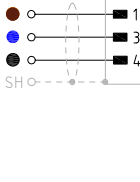
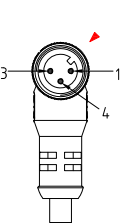
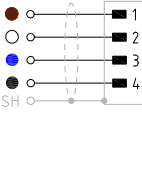
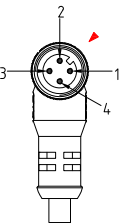
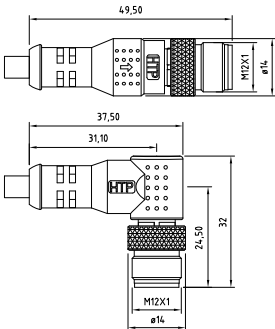
Notes:

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

M12 CIRCULAR CONNECTORS

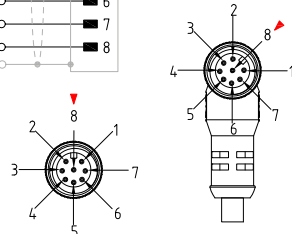
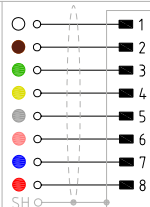
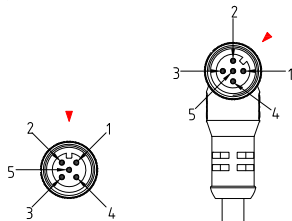
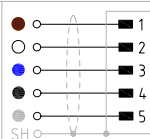
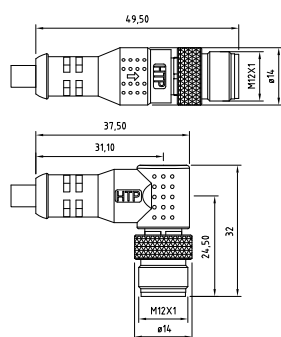
Moulded cable connectors - A-coded



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,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		12MD8S1Z-UL	12MA8S1Z-UL	12MJ331Z-UL	12MV331Z-UL	12MJ431Z-UL	12MV431Z-UL
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	
Technical data							
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)		ø6mm (±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							



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	12MJ5F1Z-UL	12MV5F1Z-UL	12MJ8P1Z-UL	12MV8P1Z-UL
Housing type	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 (0.34mm ²)		8xAWG24 (0.25mm ²)	
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
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Other accessories options

See accessories section

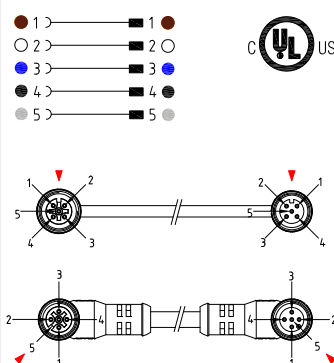
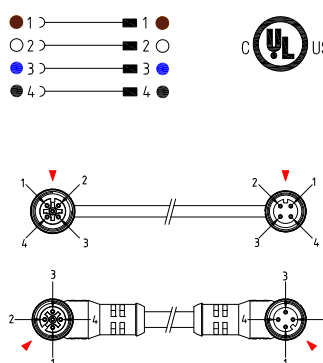
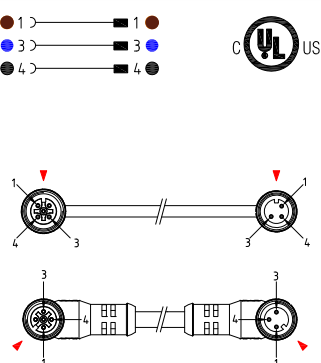
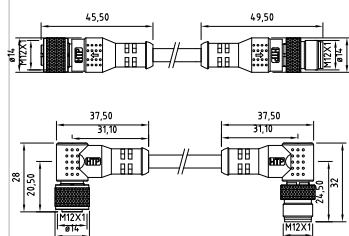
Notes:

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

M12 CIRCULAR CONNECTORS



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	12FD3I1Z12MD-UL	12FA3I1Z12MA-UL	12FD4I1Z12MD-UL	12FA4I1Z12MA-UL	12FD5I1Z12MD-UL	12FA5I1Z12MA-UL
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 ²)	4xAWG22 (0.34mm ²)	5xAWG22 (0.34mm ²)
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

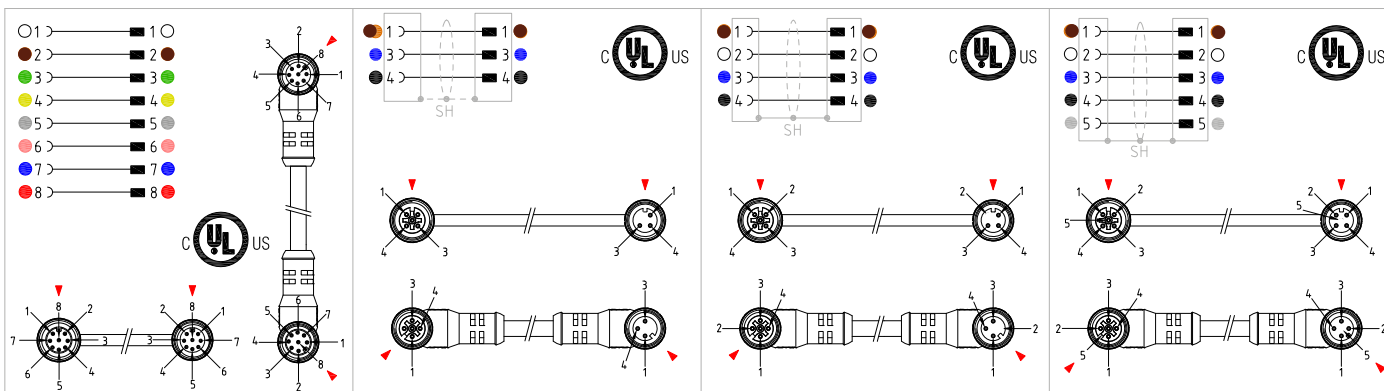
Qty/Bag	1 pc / bag	1 pc / bag	1 pc / bag
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Other accessories options

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		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	
12FD8S1Z12MD-UL	12FA8S1Z12MA-UL	12FJ331Z12MJ-UL	12FV331Z12MV-UL	12FJ431Z12MJ-UL	12FV431Z12MV-UL	12FJ531Z12MJ-UL	12FV531Z12MV-UL
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 (0.25mm ²)		3xAWG22 (0.34mm ²)		4xAWG22 (0.34mm ²)		5xAWG22 (0.34mm ²)	
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
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Other accessories options

See accessories section			
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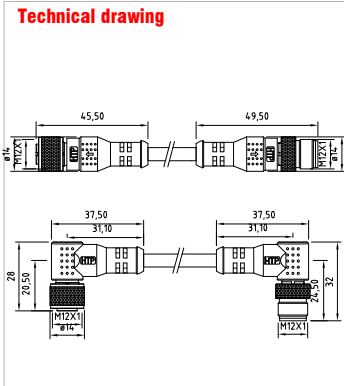
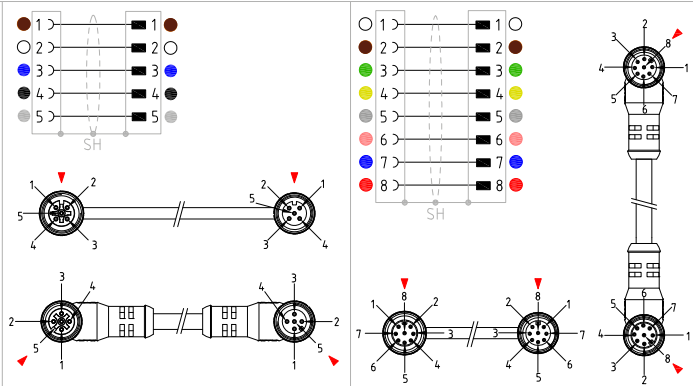
Notes:

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

M12 CIRCULAR CONNECTORS

Moulded cable connectors - A-coded

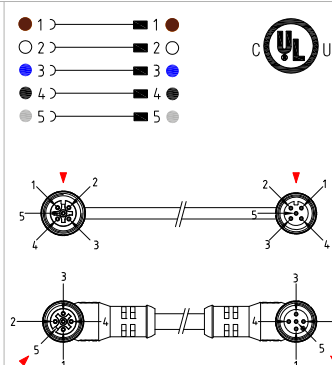
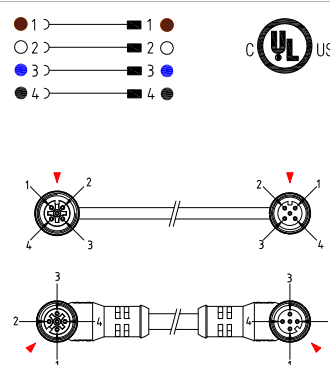
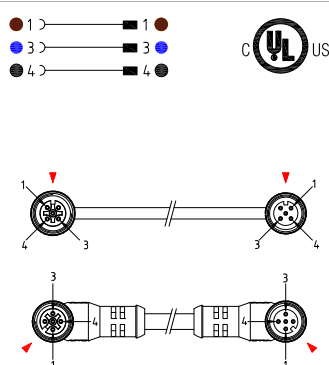
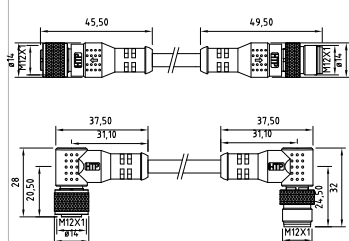


Technical drawing					
Product description					
Connector type	Circular connector with moulded cable		Circular connector with moulded cable		
Conforms to	IEC 61076-2-101		IEC 61076-2-101		
Construction type	M12 A-Coded		M12 A-Coded		
Description	Extension M12-M12 connectors TOTALLY SHIELDED with moulded cable		Extension M12-M12 connectors TOTALLY SHIELDED with moulded cable		
Part number	12FJ5F1Z12MJ	12FV5F1Z12MV	12FJ8J1Z12MJ	12FV8J1Z12MV	
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		
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	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		
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					

M12 CIRCULAR CONNECTORS



Technical drawing



Product description

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	12FD331Z12MD	12FA331Z12MA	12FD411Z12MD	12FA411Z12MA	12FD511Z12MD	12FA511Z12MA
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 ²)	4xAWG22 (0.34mm ²)	5xAWG22 (0.34mm ²)
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
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Other accessories options

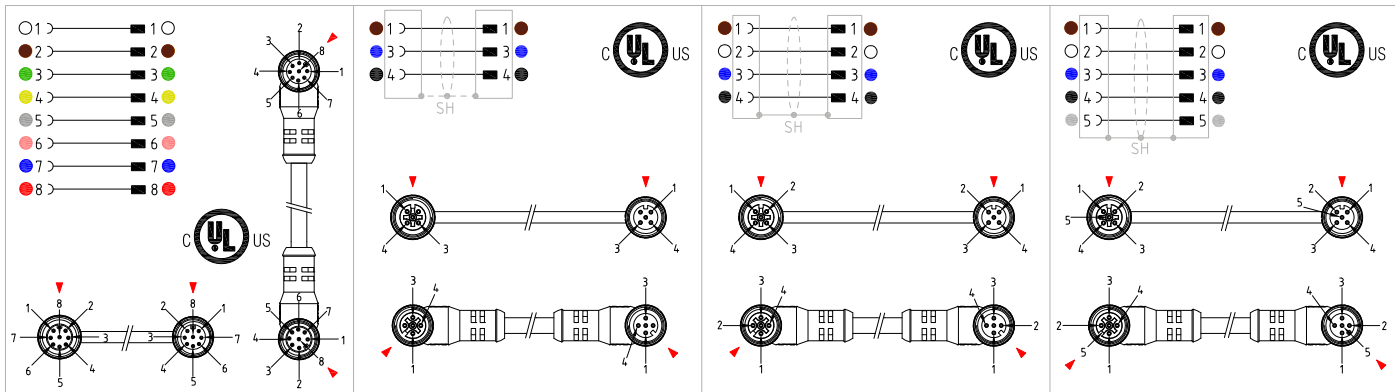
See accessories section

Notes:

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

M12 CIRCULAR CONNECTORS

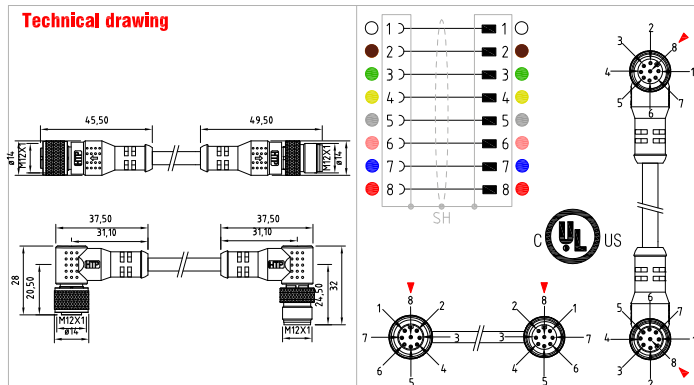
Moulded cable connectors - A-coded



Product description							
Circular connector with moulded cable IEC 61076-2-101 / UL approved		Circular connector with moulded cable IEC 61076-2-101 / UL approved		Circular connector with moulded cable IEC 61076-2-101 / UL approved		Circular connector with moulded cable	
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	
12FD8S1Z12MD	12FA8S1Z12MA	12FJ331Z12MJ	12FV331Z12MV	12FJ431Z12MJ	12FV431Z12MV	12FJ531Z12MJ	12FV531Z12MV
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: See the general features and codification scheme page 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	12FJ8P1Z12MJ-UL	12FV8P1Z12MV-UL
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 (0.25mm ²)
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
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Other accessories options

See accessories section

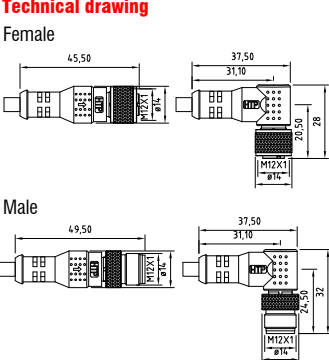
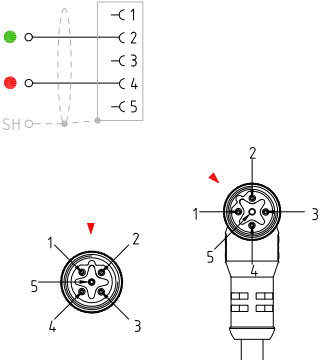
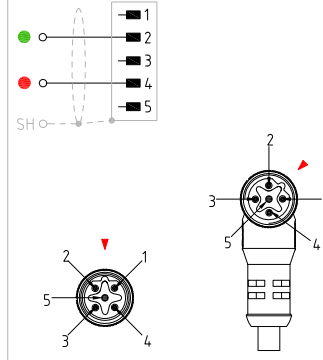
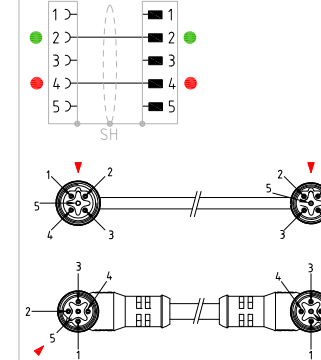
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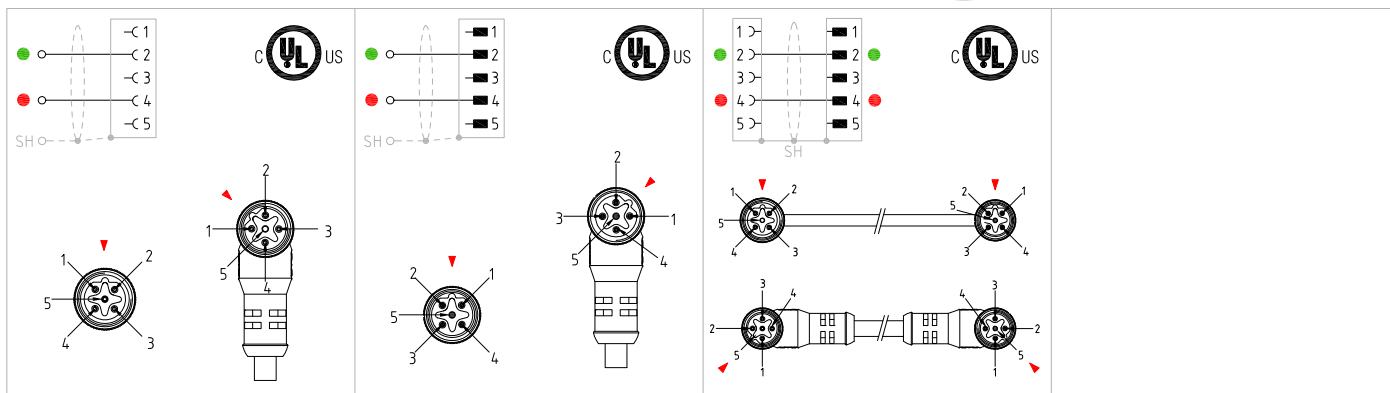
Connectors available with different features:
See the general features and codification scheme page
See the cables list section

M12 CIRCULAR CONNECTORS

Moulded cable connectors - B-coded



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 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-12FJ5T1Z-K6-IS	B-12FV5T1Z-K6-IS	B-12MJ5T1Z-K6-IS	B-12MV5T1Z-K6-IS	B-12FJ5T1Z12MJ-K6-IS B-12FV5T1Z12MV-K6-IS		
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		
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	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		
Packaging							
Qty/Bag	1 pc / bag		1 pc / bag		1 pc / bag		
Other accessories options							
See accessories section							
Notes:							
Connectors available with different feautures: 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	
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-12FJ5T1Z-K6-UL	B-12FV5T1Z-K6-UL	B-12MJ5T1Z-K6-UL	B-12MV5T1Z-K6-UL	B-12FJ5T1Z12MJ-K6-UL	B-12FV5T1Z12MV-K6-UL
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	

Technical data

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(0.25mm ²)		1x2xAWG24(0.25mm ²)		1x2xAWG24(0.25mm ²)	
Red; Green		Red; Green		Red; Green	
ø8.2mm (±0.3)		ø8.2mm (±0.3)		ø8.2mm (±0.3)	
1m		1m		1m	

Packaging

1 pc / bag	1 pc / bag	1 pc / bag
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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

M12 CIRCULAR CONNECTORS

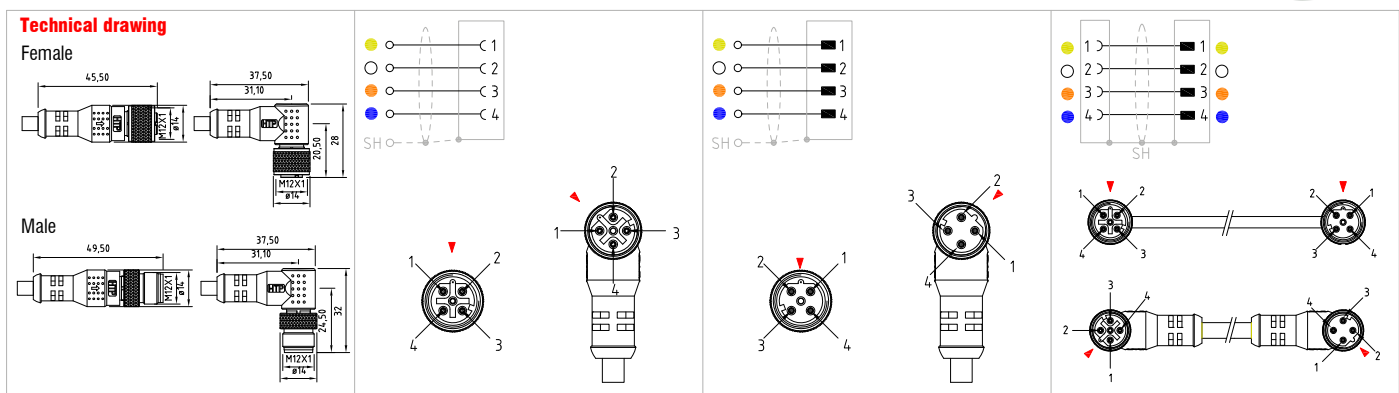
Moulded cable connectors - C-coded /
Panel mount connectors C-coded



Technical drawing 					
Product description					
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	C-12MD3011Z	C-12MA3011Z	C-12FP3000-PG9	C-12FR3000-PG9	C-12FP3010C-PG9 C-12FR3010C-PG9
Housing type	Straight 180°		Frontal panel side	Back panel side	Frontal 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		-		-
Technical data					
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 ²		-		3 x 0.5mm ²
Conductor colours	Brown; Blue; Yellow/Green		-		Brown; Blue; Yellow/Green
Cable diameter	ø5mm (±0.3)		-		0.3m
Cable length	1m				
Packaging					
Qty/Bag	1 pc / bag		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					

M12 CIRCULAR CONNECTORS

Moulded cable connectors - D-coded



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	D-12FJ4401Z-K6-IS	D-12FV4401Z-K6-IS	D-12MJ4401Z-K6-IS	D-12MV4401Z-K6-IS	D-12MJ4401Z12FJ-K6-IS	D-12MV4401Z12FV-K6-IS
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(0.34mm ²)		1x4xAWG22(0.34mm ²)		1x4xAWG22(0.34mm ²)	
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
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Other accessories options

See accessories section

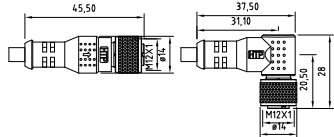
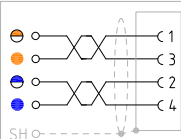
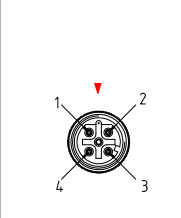
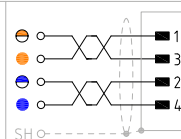
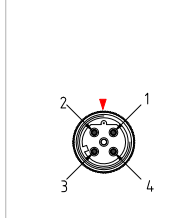
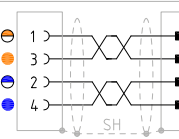
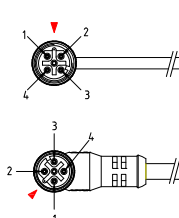
Note:

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

M12 CIRCULAR CONNECTORS

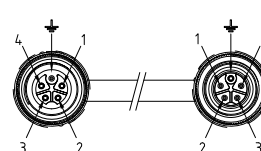
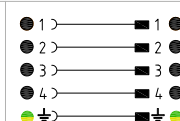
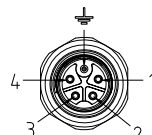
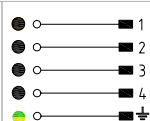
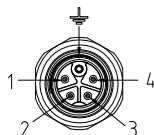
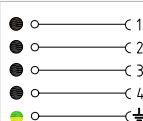
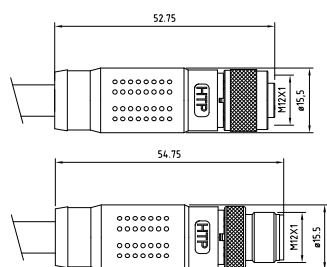
Moulded cable connectors - D-coded



Technical drawing							
<div><div>Female</div><div></div></div>		<div></div> <div></div>		<div></div> <div></div>		<div></div> <div></div>	
Product description							
Connector type	Circular connector with moulded cable		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		IEC 61076-2-101 / UL approved
Construction type	M12 D-Coded		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		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	D-12FJ4661Z-K6-UL		D-12FV4661Z-K6-UL	D-12MJ4661Z-K6-UL	D-12MV4661Z-K6-UL	D-12FJ4661Z12MJ-UL	D-12FV4661Z12MV-UL
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 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	
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							



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	K-12FD5461Z	K-12MD5461Z	K-12FD5461Z12MD
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 ²	5G1.5mm ²	5G1.5mm ²
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
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Other accessories options

See accessories section

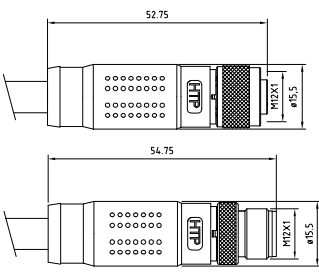
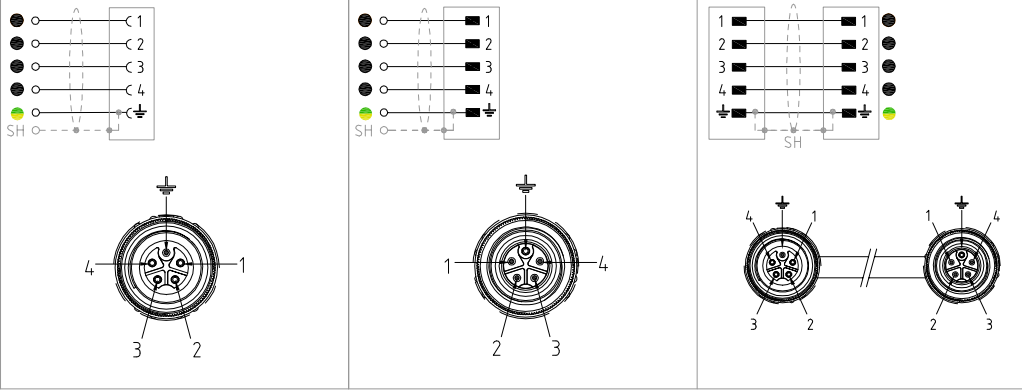
Notes:

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

M12 CIRCULAR CONNECTORS

Moulded cable connectors - K-coded



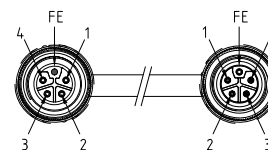
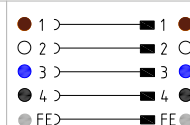
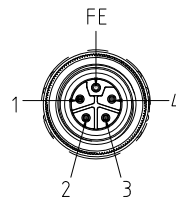
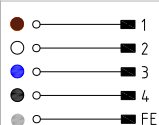
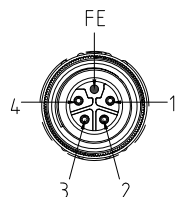
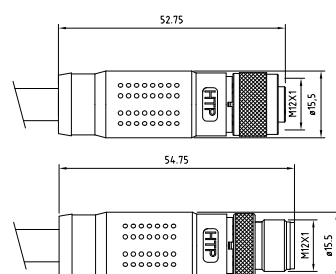
Technical drawing 			
			
Product description			
Connector type	Circular connector with moulded cable	Circular connector with moulded cable	Circular connector with moulded cable
Conforms to	IEC 61076-2-111	IEC 61076-2-111	IEC 61076-2-111
Construction type	M12 K-Coded	M12 K-Coded	M12 K-Coded
Description	Circular connector M12 series, K-coded, 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	K-12FJ5351Z-K6-IS	K-12MJ5351Z-K6-IS	K-12FJ5351Z12MJ
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 SHIELDED	PVC/PVC CEI2022 SHIELDED	PVC/PVC CEI2022 SHIELDED
Cable jacket colour	Black	Black	Black
No. Conductors / Section	5G1.5mm ²	5G1.5mm ²	5G1.5mm ²
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
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			

M12 CIRCULAR CONNECTORS

Moulded cable connectors - L-coded



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	L-12FD5731Z	L-12MD5731Z	L-12FD5731Z12MD
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 ²	5x1.5mm ²	5x1.5mm ²
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
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Other accessories options

See accessories section

Notes:

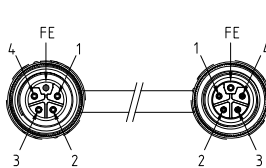
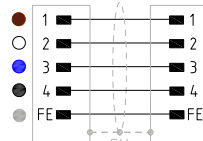
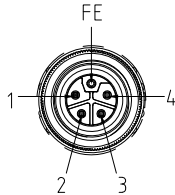
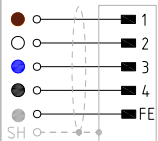
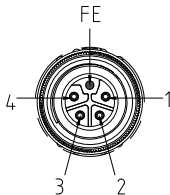
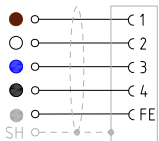
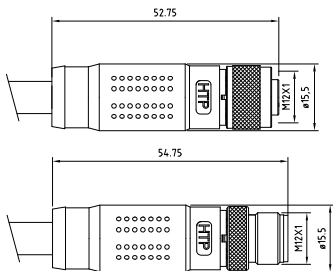
Connectors available with different features:
See the general features and codification scheme page
See the cables list section

M12 CIRCULAR CONNECTORS

Moulded cable connectors - L-coded



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, 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	L-12FJ5701Z-K6-IS	L-12MJ5701Z-K6-IS	L-12FJ5701Z12MJ
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 SHIELDED	PVC/PVC CEI2022 SHIELDED	PVC/PVC CEI2022 SHIELDED
Cable jacket colour	Black	Black	Black
No.Conductors / Section	5x1.5mm ²	5x1.5mm ²	5x1.5mm ²
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

Packaging

Qty/Bag	1 pc / bag	1 pc / bag	1 pc / bag
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Other accessories options

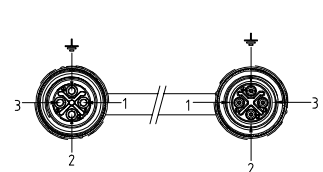
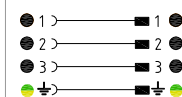
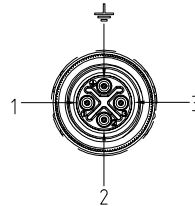
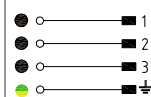
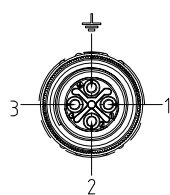
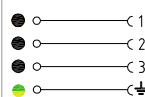
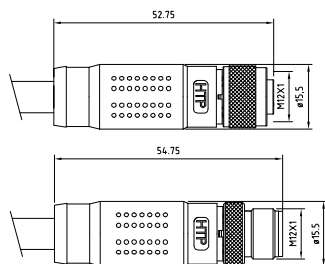
See accessories section

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 61076-2-111	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	S-12FD4461Z	S-12MD4461Z	S-12FD4461Z12MD
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 ²	4G1.5mm ²	4G1.5mm ²
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
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Other accessories options

See accessories section

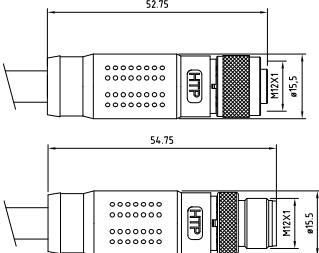
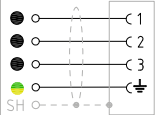
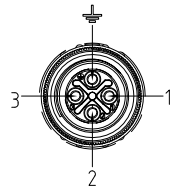
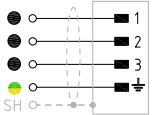
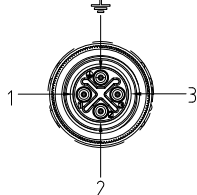
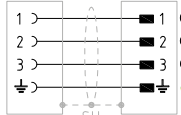
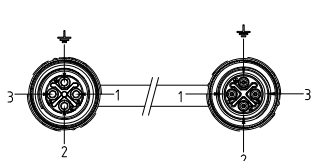
Notes:

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

M12 CIRCULAR CONNECTORS

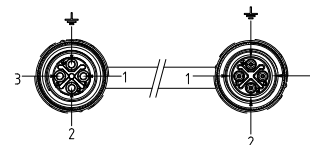
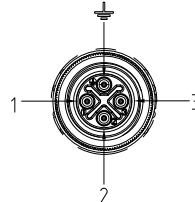
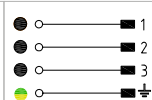
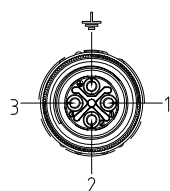
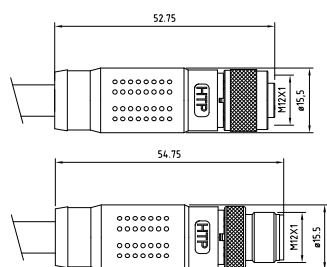
Moulded cable connectors - S-coded



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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	S-12FD4811Z-K6-UL	S-12MD4811Z-K6-UL	S-12FD4811Z12MD-UL
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
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Other accessories options

See accessories section

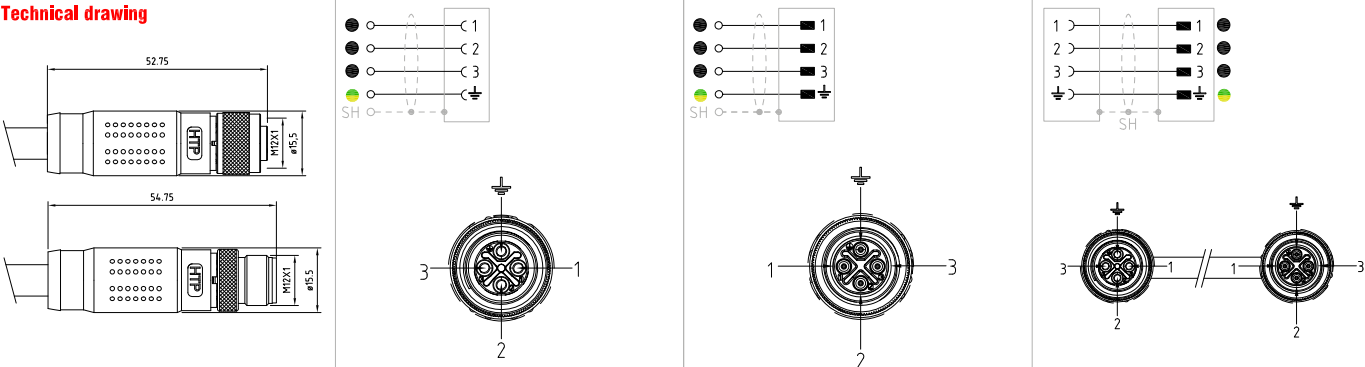
Notes:

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

M12 CIRCULAR CONNECTORS

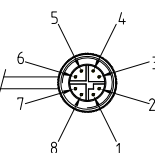
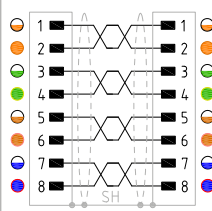
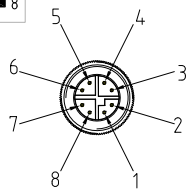
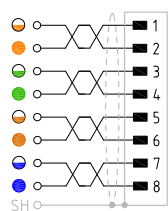
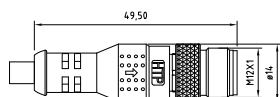
Moulded cable connectors - S-coded



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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	X-12MJ8711Z-K6-IS	X-12MJ871Z12MJ-K6-IS	
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(0.14mm ²)	4x2xAWG26(0.14mm ²)	
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	
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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, lined paper. It features approximately 20 evenly spaced horizontal grey lines across its entire width, providing a template for writing or drawing. The margins are consistent on all sides.

• GENERAL FEATURES PANEL MOUNT CONNECTORS:

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

Type of terminations :
Solder wires.
Solder PCB.

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

Internal core material :
PA66.

Operating temperature :
-25°C +90°C

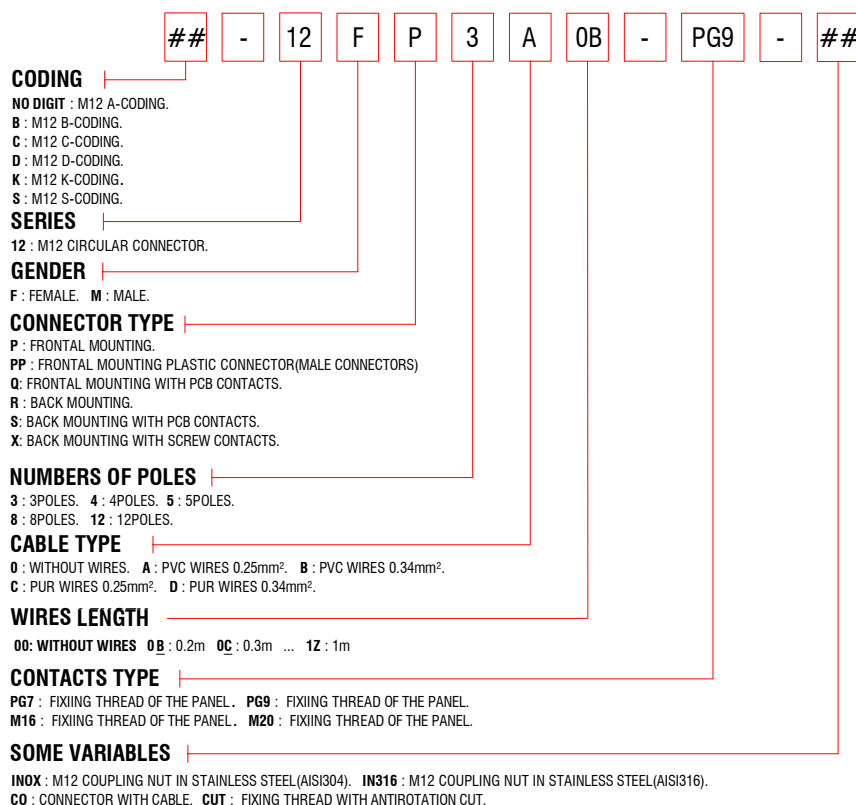
Fixing system :
M12 coupling nut.

Contact material and treatment :
Brass + Gold flash.

Flammability resistance :
UL94-V2 - Standard.

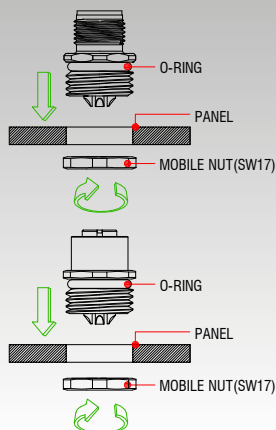
Max. screw torque IEC60947-1
M12 coupling nut torque 0.4N*m.

Protection class :
IP 67 (assembled).



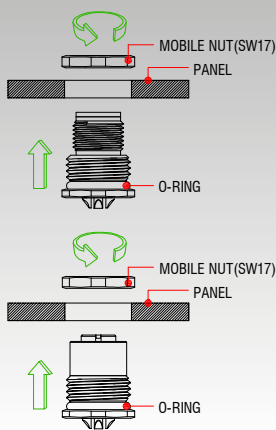
FRONT MOUNTING:

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.



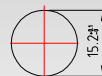
BACK MOUNTING:

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:

Suitable for standard connector.



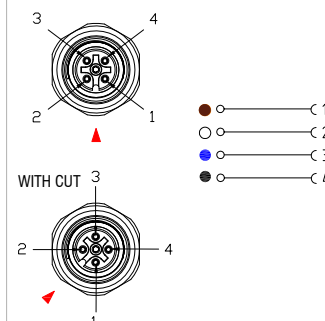
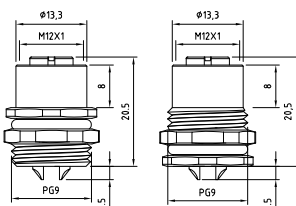
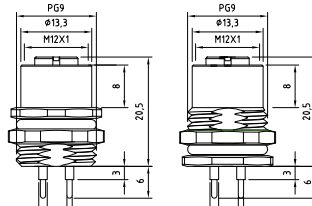
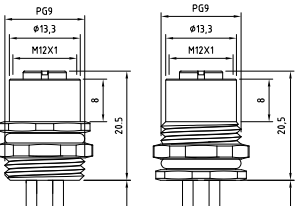
* Suitable for connector with cut on the fixed thread.



M12 CIRCULAR CONNECTORS

Panel mount - A-coded

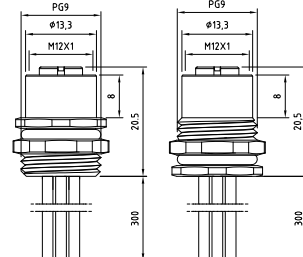
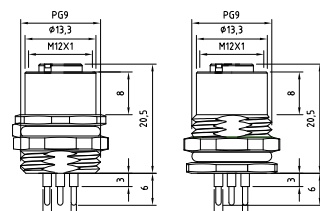
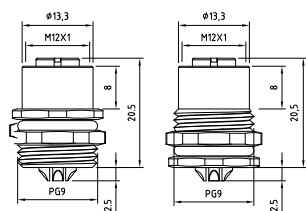
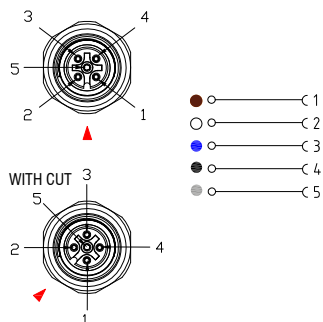


Technical drawing							
STD. 							
Product description							
Connector type		Circular connector panel mount		Circular connector panel mount		Circular connector panel mount	
Conforms to		IEC 61076-2-101		IEC 61076-2-101		IEC 61076-2-101	
Construction type		M12 A-Coded		M12 A -Coded		M12 A -Coded	
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		12FP4000-PG9	12FR4000-PG9	12FQ4000-PG9-CUT	12FS4000-PG9-CUT	12FP4A0C-PG9	12FR4A0C-PG9
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 ²	
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 feautures: 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	12FP5000-PG9	12FR5000-PG9	12FQ5000-PG9-CUT	12FS5000-PG9-CUT	12FP5A0C-PG9	12FR5A0C-PG9
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 ²
Conductor colours	-	-	Brown; White; Blue; Black;Grey
Cable diameter	-	-	-
Cable length	-	-	0.3m

Packaging

Qty/Bag	Not defined	Not defined	Not defined
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Other accessories options

See accessories section

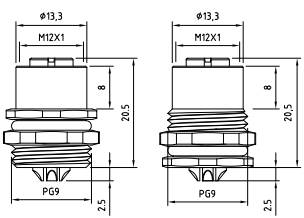
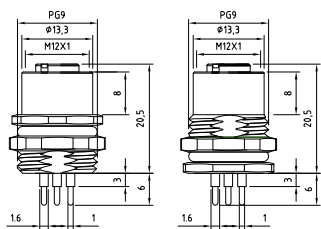
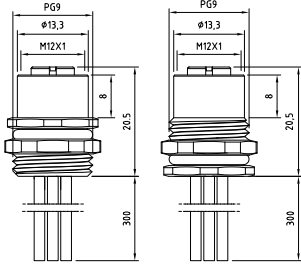
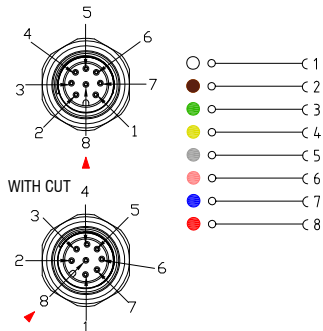
Notes:

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

M12 CIRCULAR CONNECTORS

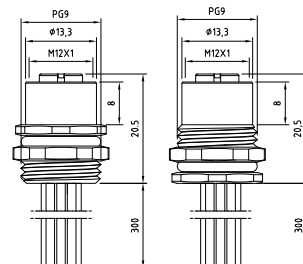
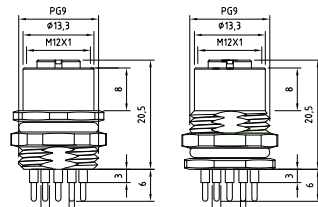
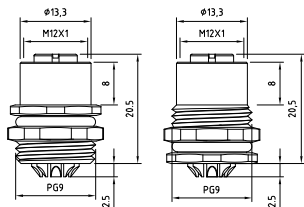
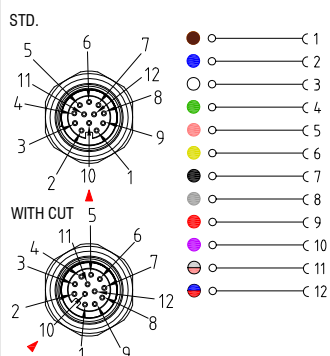
Panel mount - A-coded



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		12FP8000-PG9	12FR8000-PG9	12FQ8000-PG9-CUT	12FS8000-PG9-CUT	12FP8A0C-PG9	12FR8A0C-PG9
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		-	
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		2A		2A		2A	
O-ring material		NBR		NBR		NBR	
Cable type		-		-		PVC	
No. Conductors / Section		-		-		8 x 0.25mm ²	
Conductor colours		-		-		White;Brown;Green;Yellow;Grey;Pink;Blue;Red	
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 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	12FP12000-PG9	12FR12000-PG9	12FQ12000-PG9-CUT	12FS12000-PG9-CUT	12FP12K0C-PG9	12FR12K0C-PG9
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 ²
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
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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

M12 CIRCULAR CONNECTORS

Panel mount - A-coded

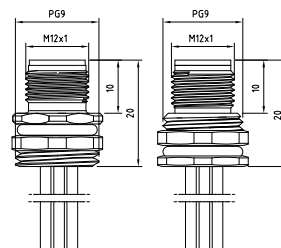
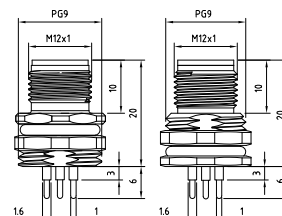
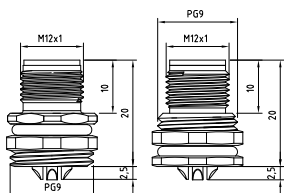
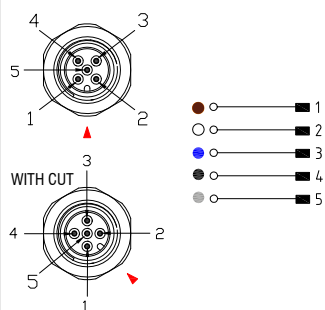


Technical drawing						
STD.						
Product description						
Connector type		Circular connector panel mount		Circular connector panel mount		Circular connector panel mount
Conforms to		IEC 61076-2-101		IEC 61076-2-101		IEC 61076-2-101
Construction type		M12 A-Coded		M12 A-Coded		M12 A-Coded
Description		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		12MP4000-PG9	12MR4000-PG9	12MQ4000-PG9-CUT	12MS4000-PG9-CUT	12MP4A0C-PG9 12MR4A0C-PG9
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		-
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 ²
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 feautures: 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 to panel mount with contacts suitable for solder PCB.		Circular connector M12 series,panel mount with PVC soldered wires.	
Part number	12MP5000-PG9	12MR5000-PG9	12MQ5000-PG9-CUT	12MS5000-PG9-CUT	12MP5A0C-PG9	12MR5A0C-PG9
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 ²
Conductor colours	-	-	Brown; White; Blue; Black;Grey
Cable diameter	-	-	-
Cable length	-	-	0.3m

Packaging

Qty/Bag	Not defined	Not defined	Not defined
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Other accessories options

See accessories section

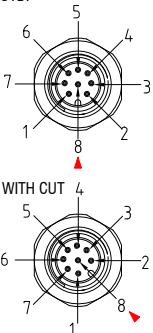
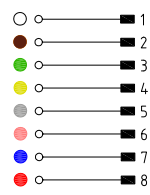
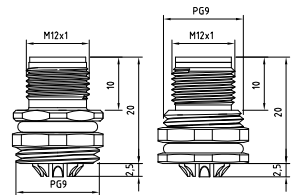
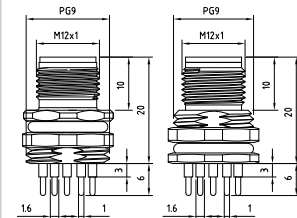
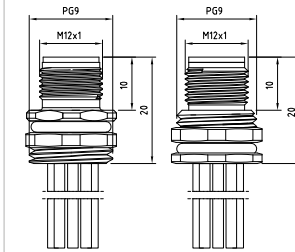
Notes:

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

M12 CIRCULAR CONNECTORS

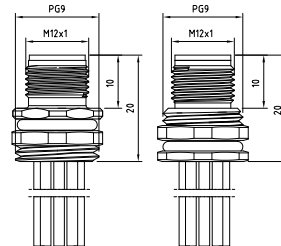
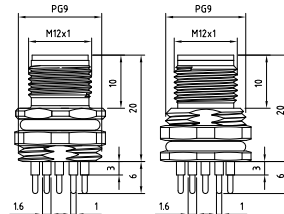
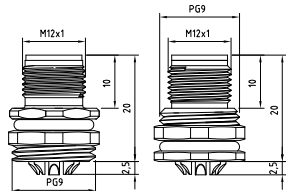
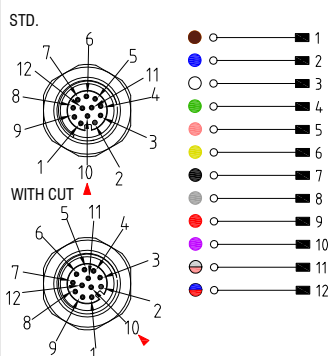
Panel mount - A-coded



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		12MP8000-PG9 12MR8000-PG9		12MQ8000-PG9-CUT 12MS8000-PG9-CUT		12MP8A0C-PG9 12MR8A0C-PG9			
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		-			
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		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			
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 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	12MP12000-PG9	12MR12000-PG9	12MQ12000-PG9-CUT	12MS12000-PG9-CUT	12MP12K0C-PG9	12MR12K0C-PG9
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 ²
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
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Other accessories options

See accessories section

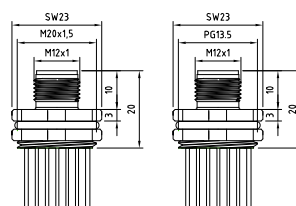
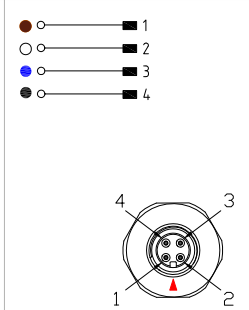
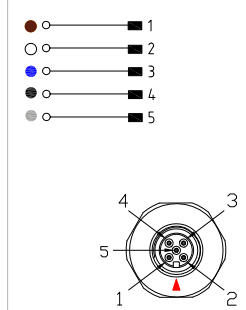
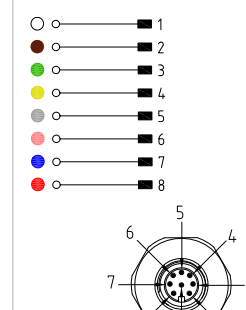
Notes:

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

M12 CIRCULAR CONNECTORS

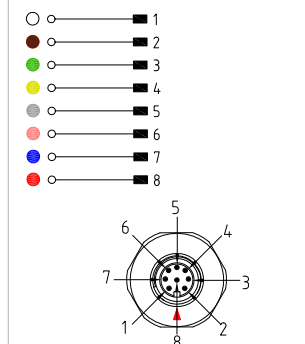
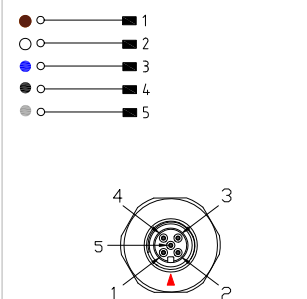
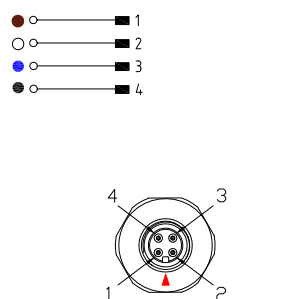
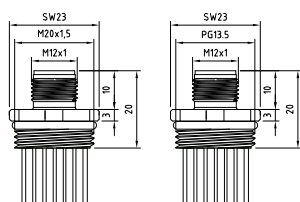
Panel mount - A-coded



Technical drawing			
			
			
			
Product description			
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	12MP4A0C-PG13.5	12MP4A0C-M20	12MP5A0C-PG13.5 12MP5A0C-M20
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	-		-
Technical data			
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		White;Brown;Green;Yellow;Grey;Pink;Blue;Red
Cable diameter	-		-
Cable length	0.3m		0.3m
Packaging			
Qty/Bag	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



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	12MPP4A0C-PG13.5	12MPP4A0C-M20	12MPP5A0C-PG13.5	12MPP5A0C-M20	12MPP8A0C-PG13.5	12MPP8A0C-M20
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 ²		5 x 0.25mm ²		8 x 0.25mm ²	
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
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Other accessories options

See accessories section

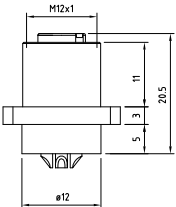
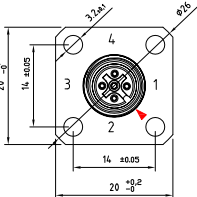
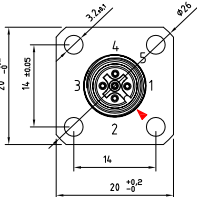
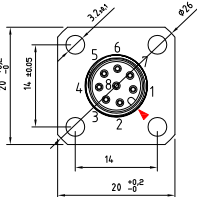
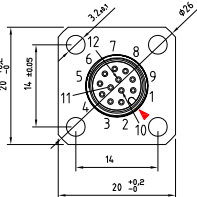
Notes:

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

M12 CIRCULAR CONNECTORS

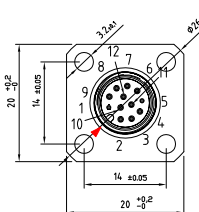
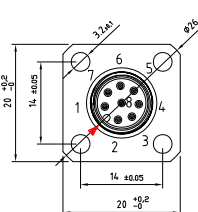
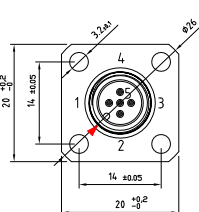
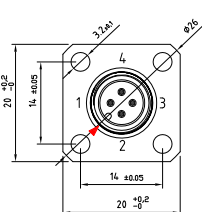
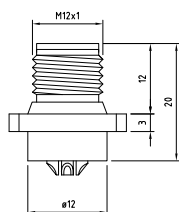
Panel mount - A-coded



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	12FP4000-FL	12FP5000-FL	12FP8000-FL	12FP12000-FL
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	12MP4000-FL	12MP5000-FL	12MP8000-FL	12MP12000-FL
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
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Other accessories options

See accessories section

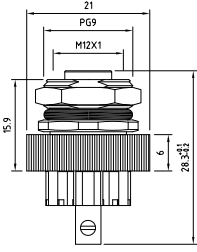
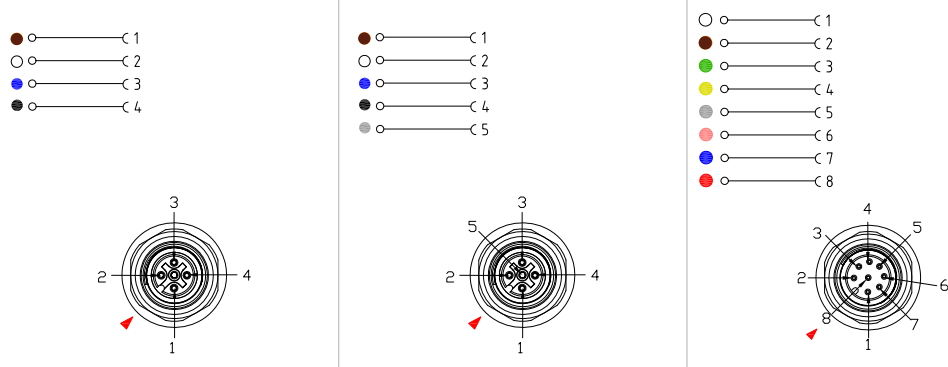
Notes:

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

M12 CIRCULAR CONNECTORS

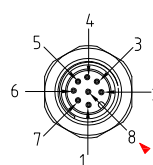
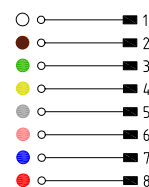
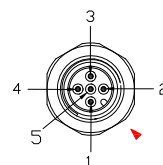
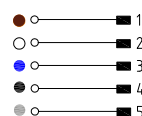
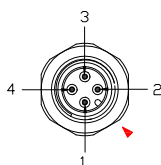
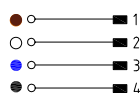
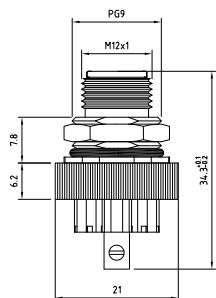
Panel mount - A-coded



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	12FX4000-PG9-CUT	12FX5000-PG9-CUT	12FX8000-PG9-CUT
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
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 0.50mm ² (20AWG)	From 0.14(26AWG) to 0.50mm ² (20AWG)	From 0.14(26AWG) to 0.50mm ² (20AWG)
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



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	12MX4000-PG9-CUT	12MX5000-PG9-CUT	12MX8000-PG9-CUT
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 0.50mm ² (20AWG)	From 0.14(26AWG) to 0.50mm ² (20AWG)	From 0.14(26AWG) to 0.50mm ² (20AWG)

Packaging

Qty/Bag	Not defined	Not defined	Not defined
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Other accessories options

See accessories section

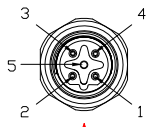
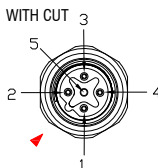
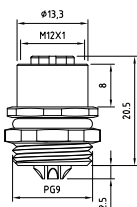
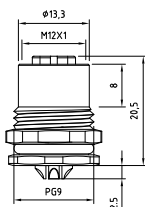
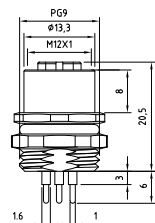
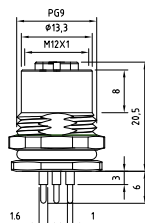
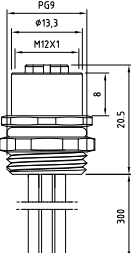
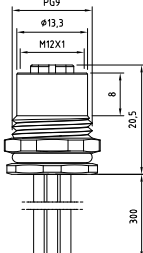
Notes:

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

M12 CIRCULAR CONNECTORS

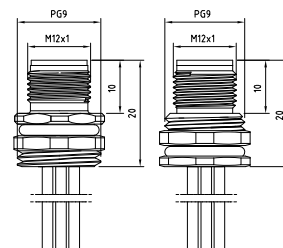
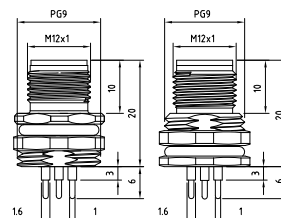
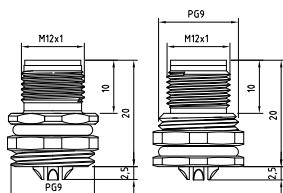
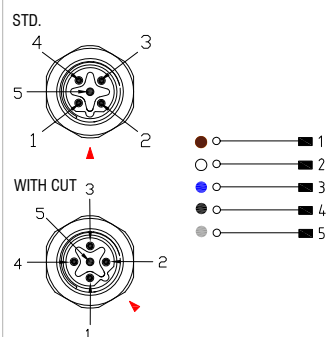
Panel mount - B-coded



Technical drawing							
<div><div>STD.</div><div></div><div><div>WITH CUT</div><div></div></div><div><div><div><div></div></div><div>C 1</div></div><div><div><div></div></div><div>C 2</div></div><div><div><div></div></div><div>C 3</div></div><div><div><div></div></div><div>C 4</div></div><div><div><div></div></div><div>C 5</div></div></div></div>		<div><div></div><div></div></div>		<div><div></div><div></div></div>		<div><div></div><div></div></div>	
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-12FP5000-PG9	B-12FR5000-PG9	B-12FQ5000-PG9-CUT	B-12FS5000-PG9-CUT	B-12FP5A0C-PG9	B-12FR5A0C-PG9
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 ²	
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 feautres:							
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-12MP5000-PG9	B-12MR5000-PG9	B-12MQ5000-PG9-CUT	B-12MS5000-PG9-CUT	B-12MP5A0C-PG9	B-12MR5A0C-PG9
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 ²
Conductor colours	-	-	Brown; White; Blue; Black; Grey
Cable diameter	-	-	-
Cable length	-	-	0.3m

Packaging

Qty/Bag	Not defined	Not defined	Not defined
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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

M12 CIRCULAR CONNECTORS

Panel mount - D-coded

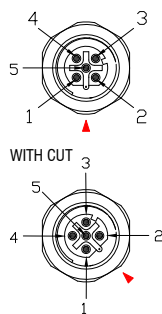


Technical drawing							
<div>STD. WITH CUT </div>							
Product description							
Connector type		Circular connector panel mount		Circular connector panel mount		Circular connector panel mount	
Conforms to		IEC 61076-2-101		IEC 61076-2-101		IEC 61076-2-101	
Construction type		M12 D-Coded		M12 D-Coded		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		D-12FP5000-PG9	D-12FR5000-PG9	D-12FQ5000-PG9-CUT	D-12FS5000-PG9-CUT	D-12FP5A0C-PG9	D-12FR5A0C-PG9
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 ²	
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							

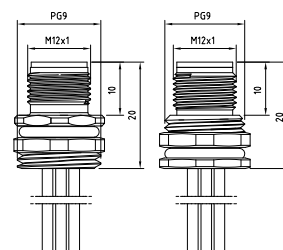
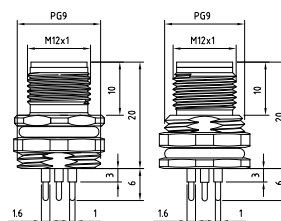
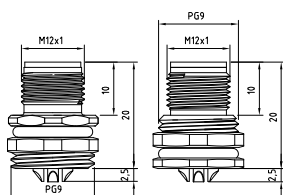
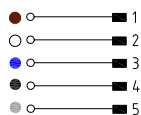
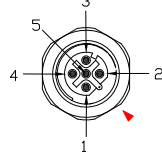


Technical drawing

STD.



WITH CUT



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	D-12MP5000-PG9	D-12MR5000-PG9	D-12MQ5000-PG9-CUT	D-12MS5000-PG9-CUT	D-12MP5A0C-PG9	D-12MR5A0C-PG9
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 ²	
Conductor colours	-		-		Brown; White; Blue; Black;Grey	
Cable diameter	-		-		-	
Cable length	-		-		0.3m	

Packaging

Qty/Bag	Not defined	Not defined	Not defined
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Other accessories options

See accessories section

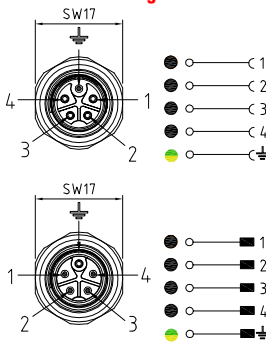
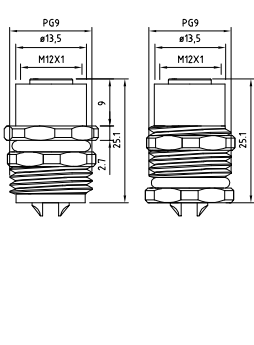
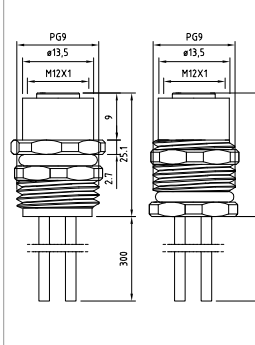
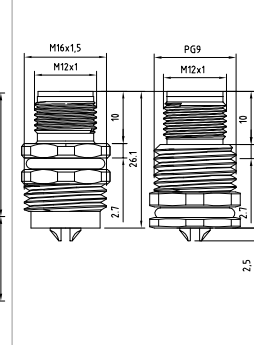
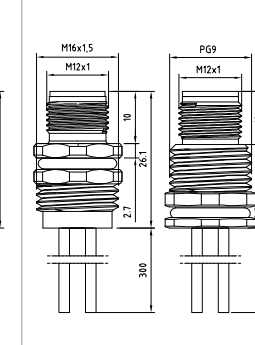
Notes:

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

M12 CIRCULAR CONNECTORS

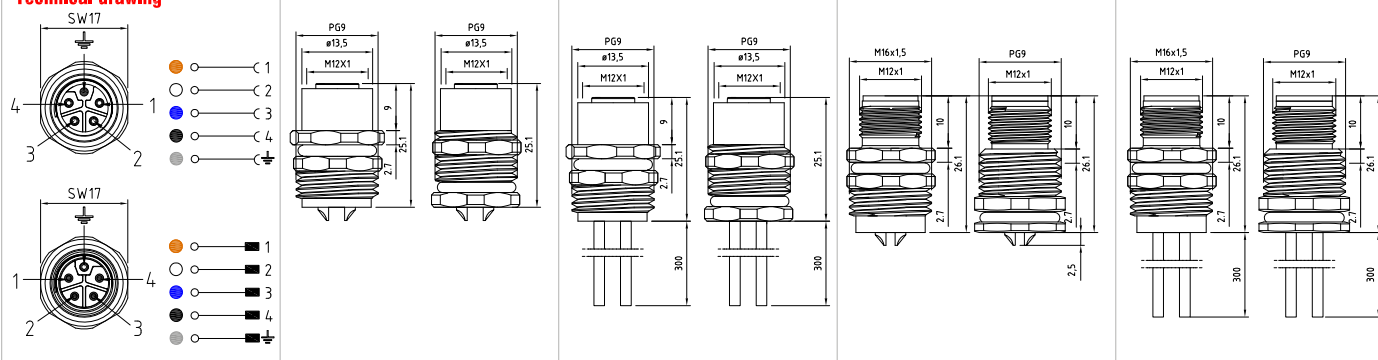
Panel mount - K-coded



Technical drawing									
									
Product description									
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	K-12FP5000-PG9	K-12FR5000-PG9	K-12FP5460C-PG9	K-12FR5460C-PG9	K-12MP5000-PG9	K-12MR5000-PG9	K-12MP5460C-PG9	K-12MR5460C-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		Male
Number of contacts	4poles + P.E.		4poles + P.E.		4poles + P.E.		4poles + P.E.		4poles + P.E.
Fixing thread	PG9		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 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		PVC
No. Conductors / Section	-		4x1.5mm²		-		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		Bk 1; Bk 2; Bk 3; Bk 4; Yellow/Green
Cable diameter	-		-		-		-		-
Cable length	-		0.3m		-		0.3m		0.3m
Packaging									
Qty/Bag	Not defined		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 61076-2-111		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 ²		-		4x1.5mm ²	
Conductor colours	-		Brown; White; Blue; Black; Grey		-		Brown; White; Blue; Black; Grey	
Cable diameter	-		-		-		-	
Cable length	-		0.3m		-		0.3m	

Packaging

Qty/Bag	Not defined	Not defined	Not defined	Not defined
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Other accessories options

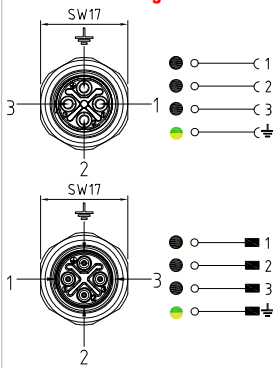
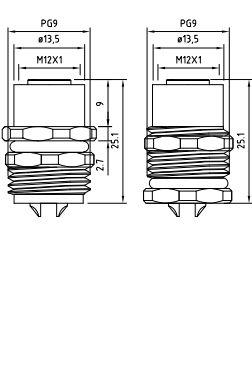
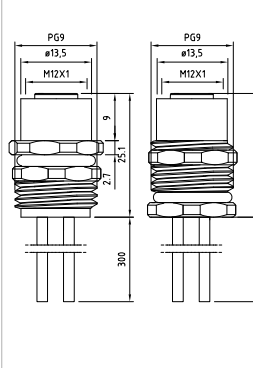
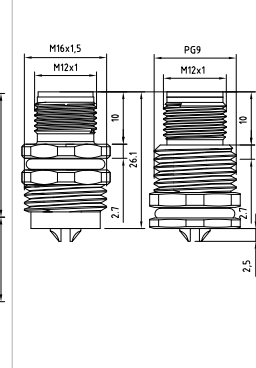
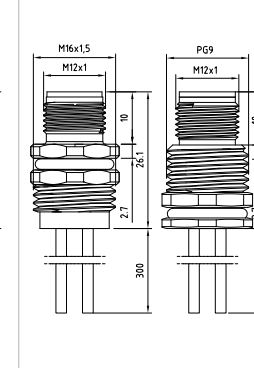
See accessories section

Notes:

M12 CIRCULAR CONNECTORS

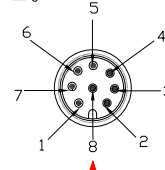
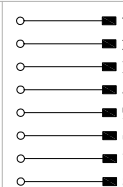
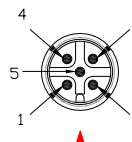
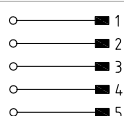
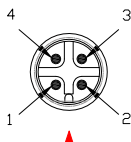
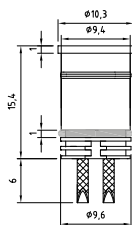
Panel mount - S-coded



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		S-12FP4000-PG9	S-12FR4000-PG9	S-12FP4810C-PG9	S-12FR4810C-PG9	S-12MP4000-PG9	S-12MR4000-PG9	S-12MP4810C-PG9	S-12MR4810C-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		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		-		4x1.5mm²		-		4x1.5mm²	
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	12MN4000	12MN5000	12MN8000
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
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Other accessories options

See accessories section

Notes:

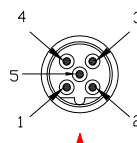
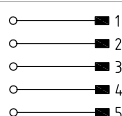
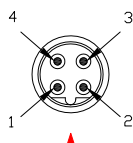
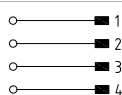
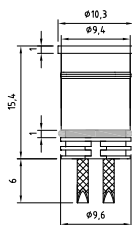
Connectors available with different features:
See the general features and codification scheme page
See the cables list section

Internal cores - A-coded

233



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-12MN4000	B-12MN5000	
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	
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Other accessories options

See accessories section

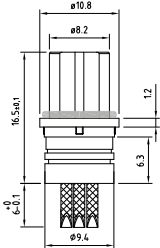
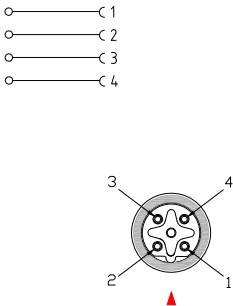
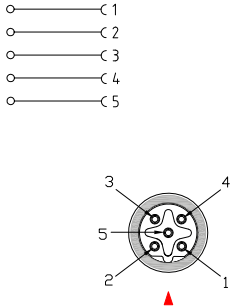
Notes:

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

M12 CIRCULAR CONNECTORS

Internal cores - B-coded



Technical drawing <div>  </div>			
			
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-12FN4000	B-12FN5000	
Internal core housing type	Connector panel mount	Connector panel mount	
Contacts type	Female	Female	
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 feautres: See the general features and codification scheme page See the cables list section			

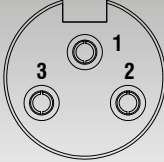
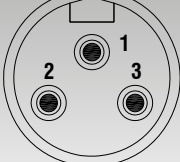
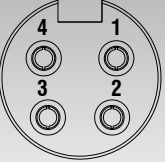
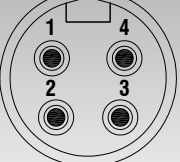
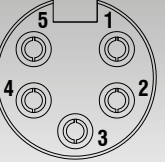
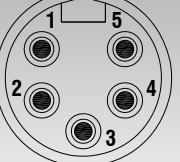












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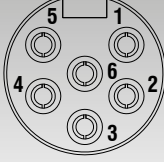
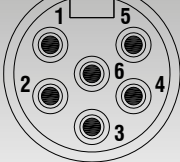








7/8 " CIRCULAR CONNECTORS

7/8 " CIRCULAR CONNECTORS

Field attachable connectors - General features and codification scheme

FEMALE	MALE	FEMALE	MALE	FEMALE	MALE
					
3 POLES: 1 (P.E.): YELLOW/GREEN  2 : BROWN  3 : BLUE 		4 POLES: 1 : BLACK  2 : BLUE  3 : BROWN  4 (P.E.) : YELLOW/GREEN 		5 POLES: 1 : WHITE  2 : BLUE  3 (P.E.): YELLOW/GREEN  4 : BROWN  5 : BLACK 	

FEMALE	MALE
	
6 POLES: 1 : WHITE  2 : BLUE  3 (P.E.): YELLOW/GREEN  4 : BROWN  5 : BLACK  6 : GREY 	

• GENERAL FEATURES OF FIELD ATTACHABLE CONNECTORS:

Cable Gland :
PG11 : \varnothing 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.

	78	F	C	3	000	-	##
SERIES	78 : 7/8" CIRCULAR CONNECTOR.						
GENDER	F : FEMALE. M : MALE.						
HOUSING TYPE	C : STRAIGHT HOUSING 180°.						
NUMBERS OF POLES	3 : 3POLES. 4 : 4POLES. 5 : 5POLES. 6 : 6POLES.						
CABLE TYPE AND LENGTH	000 : WITHOUT CABLE.						
SOME VARIABLES	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.						

7/8 " CIRCULAR CONNECTORS

Field attachable connectors



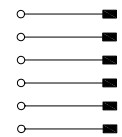
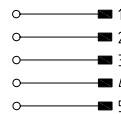
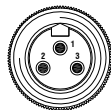
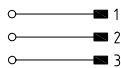
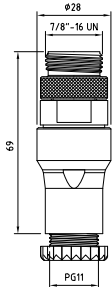
Technical drawing				
Product description				
Connector type	Circular connector field attachable	Circular connector field attachable	Circular connector field attachable	Circular connector field attachable
Conforms to	--	--	--	--
Construction type	7/8"-16 UN	7/8"-16 UN	7/8"-16 UN	7/8"-16 UN
Part number	78FC3000	78FC4000	78FC5000	78FC6000
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
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				

7/8 " CIRCULAR CONNECTORS

Field attachable connectors



Technical drawing



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	78MC3000	78MC4000	78MC5000	78MC6000
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
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Other accessories options

See accessories section

Notes:

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

7/8 " CIRCULAR CONNECTORS

Moulded cable connectors - General features and codification scheme



• GENERAL FEATURES OF MOULDED CONNECTORS:

Conductor cross section :
1.50mm²(16AWG).

Housing material :
Polypropylene.

Operating temperature :
-40°C +90°C.

Fixing system :
7/8" coupling nut.

Internal core material :
PVC.

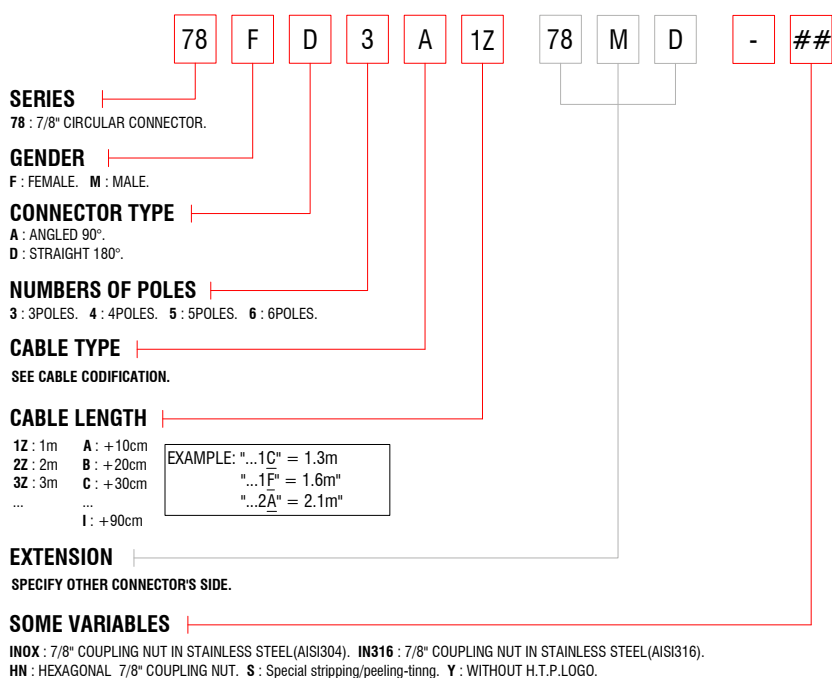
Max. screw torque IEC60947-1
7/8" coupling nut torque 0.8 N*m.

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 mm ±0.3	Temperature range °C
A	PVC/PVC	CEI2022	Black	1.50mm ²	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 ²	3 *	ø 7.8mm	-40°C / +80°C
					4 *	ø 10.2mm	-40°C / +80°C
					5 *	ø 11mm	-40°C / +80°C

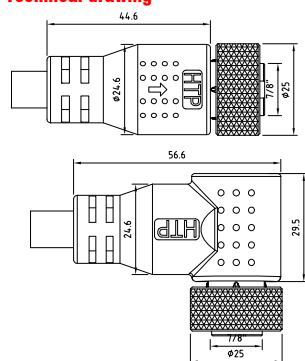
* = Cables with minimum quantity required.

7/8 " CIRCULAR CONNECTORS

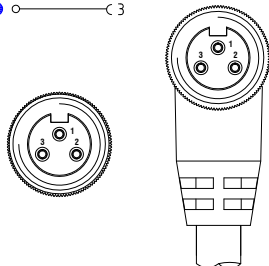
Moulded cable connectors



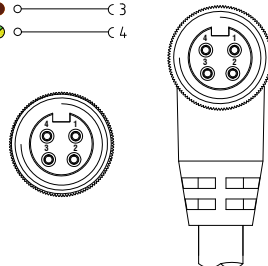
Technical drawing



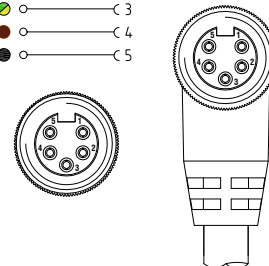
- C 1
- C 2
- C 3



- 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	78FD3A1Z	78FA3A1Z	78FD4A1Z	78FA4A1Z	78FD5A1Z	78FA5A1Z
Housing type	Straight 180°		Straight 180°		Straight 180°	
	Angled 90°		Angled 90°		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 ²		4x1.50mm ²		5x1.50mm ²	
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
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Other accessories options

-

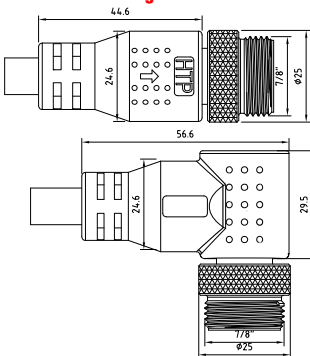
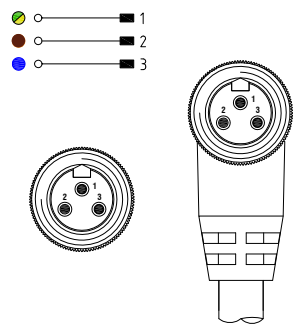
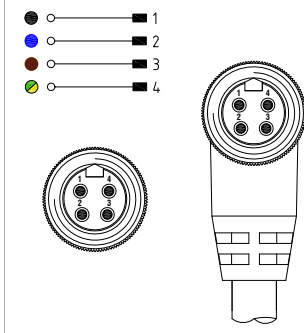
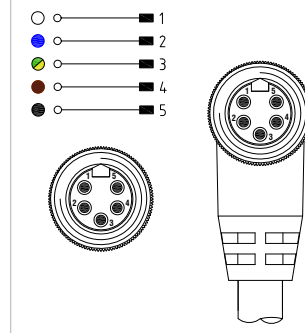
Notes:

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

7/8 " CIRCULAR CONNECTORS

Moulded cable connectors



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	78MD3A1Z	78MA3A1Z	78MD4A1Z	78MA4A1Z	78MD5A1Z	78MA5A1Z	
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	3x1.50mm²			4x1.50mm²		5x1.50mm²	
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							
-							
Notes: Connectors available with different features: See the general features and codification scheme page							

• GENERAL FEATURES PANEL MOUNT CONNECTORS:

Conductor cross section :
1.50mm²(16AWG).

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 :
-40°C +90°C.

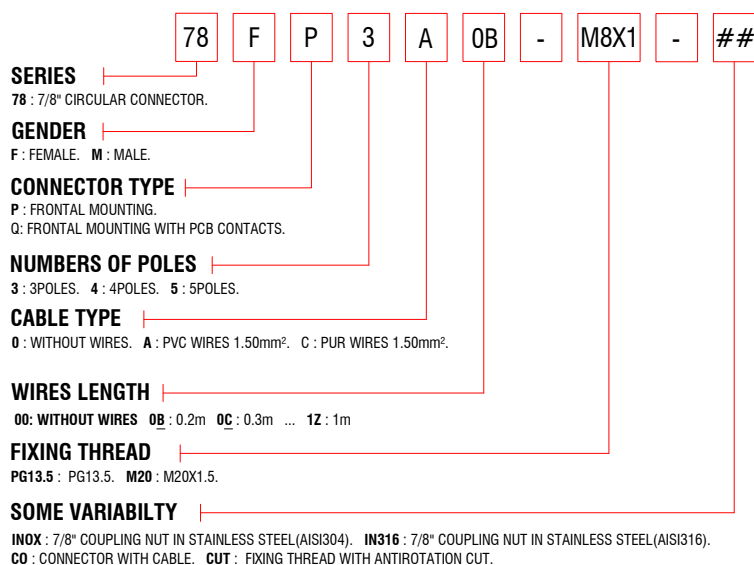
Fixing system :
7/8" coupling nut.

Contact material and treatment :
Brass + Gold flash.

Flammability resistance :
V2 - Standard.

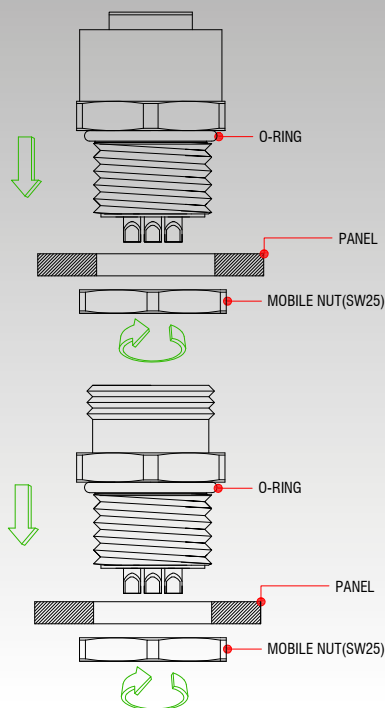
Max. screw torque IEC60947-1
7/8" coupling nut torque 0.8 N*m

Protection class :
IP 67 (assembled).



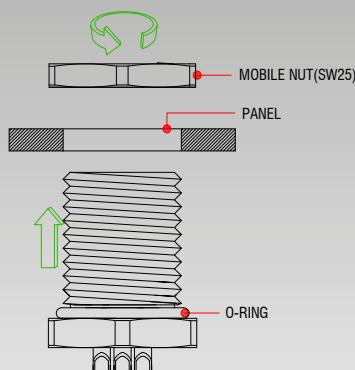
FRONT MOUNTING:

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:

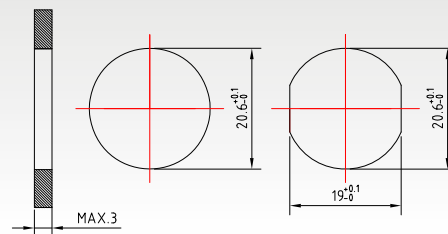
The type of mounting of the panel connector into the panel is defined with reference to the way the connector is mounted into the panel. In back mounting the mobile nut is in the front side towards the panel.



PANEL FEATURES:

Suitable for standard connector PG13.5.

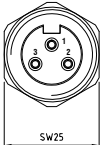
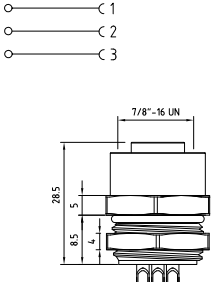
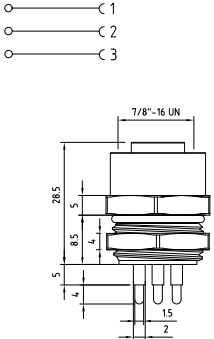
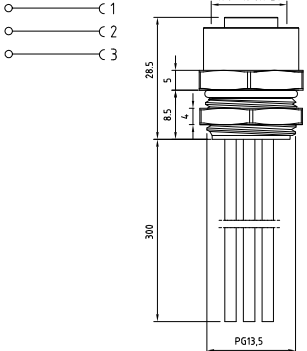
* Suitable for connector PG13.5 with cut on the fixed thread.



7/8 " CIRCULAR CONNECTORS

Panel mount connectors



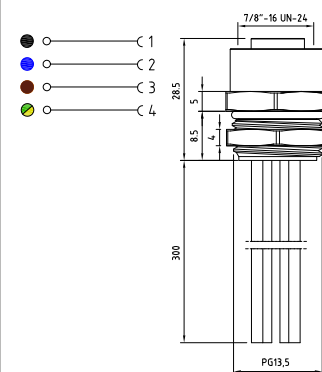
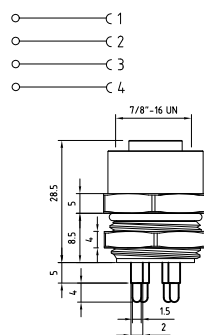
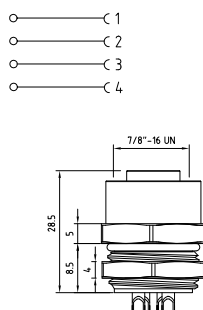
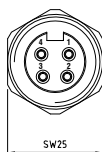
Technical drawing 			
Product description	78FP3000-PG13.5	78FQ3000-PG13.5	78FP3A0C-PG13.5
Connector type	Circular connector to panel	Circular connector to panel	Circular connector to panel
Conforms to	-	-	-
Construction type	7/8"-16 UN	7/8"-16 UN	7/8"-16 UN
Description	Circular connector 7/8" series 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	78FP3000-PG13.5	78FQ3000-PG13.5	78FP3A0C-PG13.5
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
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 ²
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 feautres: See the general features and codification scheme page			

7/8 " CIRCULAR CONNECTORS

Panel mount connectors



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	78FP4000-PG13.5	78FQ4000-PG13.5	78FP4A0C-PG13.5
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 ²
Conductor colours	-	-	Black; Blue; Brown; Yellow/green;
Cable diameter	-	-	-
Cable length	-	-	0.3m

Packaging

Qty/Bag	Not defined	Not defined	Not defined
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Other accessories options

-			
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Notes:

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

7/8 " CIRCULAR CONNECTORS

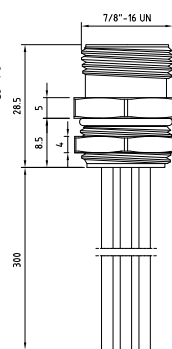
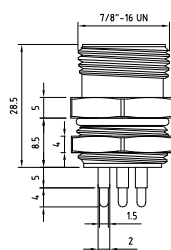
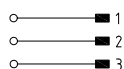
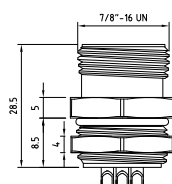
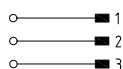
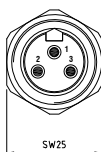
Panel mount connectors



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	78FP4000-PG13.5	78FQ5000-PG13.5	78FP5A0C-PG13.5
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
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 ²
Conductor colours	-	-	White; Blue; Yellow/green; Brown; Black;
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			



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	78MP3000-PG13.5	78MQ3000-PG13.5	78MP3A0C-PG13.5
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 ²
Conductor colours	-	-	Yellow/green; Brown; Blue;
Cable diameter	-	-	-
Cable length	-	-	0.3m

Packaging

Qty/Bag	Not defined	Not defined	Not defined
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Other accessories options

-


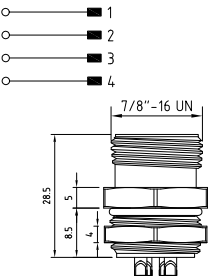
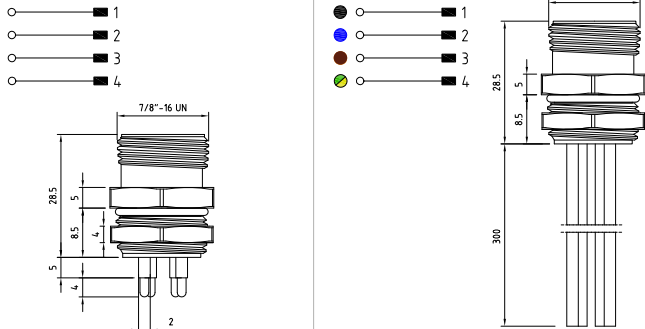
Notes:

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

7/8 " CIRCULAR CONNECTORS

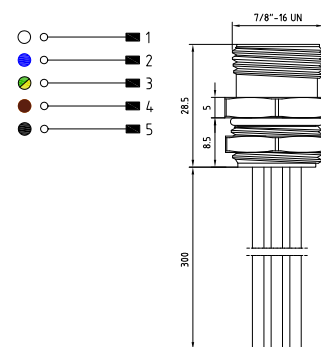
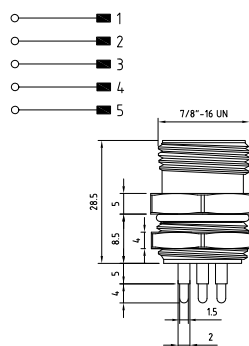
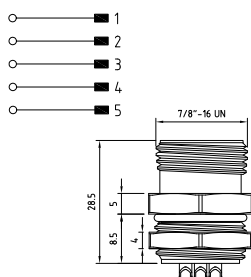
Panel mount connectors



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	78MP4000-PG13.5	78MQ4000-PG13.5	78MP4A0C-PG13.5
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
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 ²
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			
-			
Notes: Connectors available with different feautres: 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	78MP5000-PG13.5	78MQ5000-PG13.5	78MP5A0C-PG13.5
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 ²
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
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Other accessories options

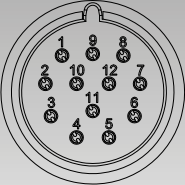
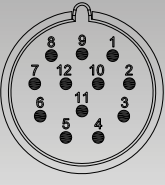
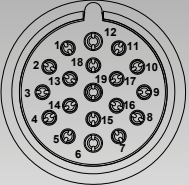
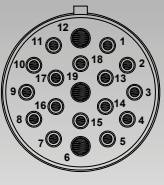
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Notes:

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



M23 CIRCULAR CONNECTORS

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

GENERAL FEATURES OF MOULDED / PANEL MOUNT CONNECTORS:

Conductor cross section :

Power contacts:
0.82mm²(18AWG).

Signal contacts:
0.34mm²(22AWG).

Rated Voltage:
150V AC/DC.

Rated current:

12poles: 8A.

19poles: 10A (power contacts), 8A(signal contacts).

Fixing system :

M23 coupling nut.

Type of terminations :

Solder wires.

Contact material and treatment :

Brass + Gold flash.

Housing material :

Moulded connectors:
Polypropylene.

Panel mount:

Brass + Nickel plated.

Stainless steel AISI304(upon request)

Internal core material :

PA66.

Coupling nut material :

Brass + Nickel plated.

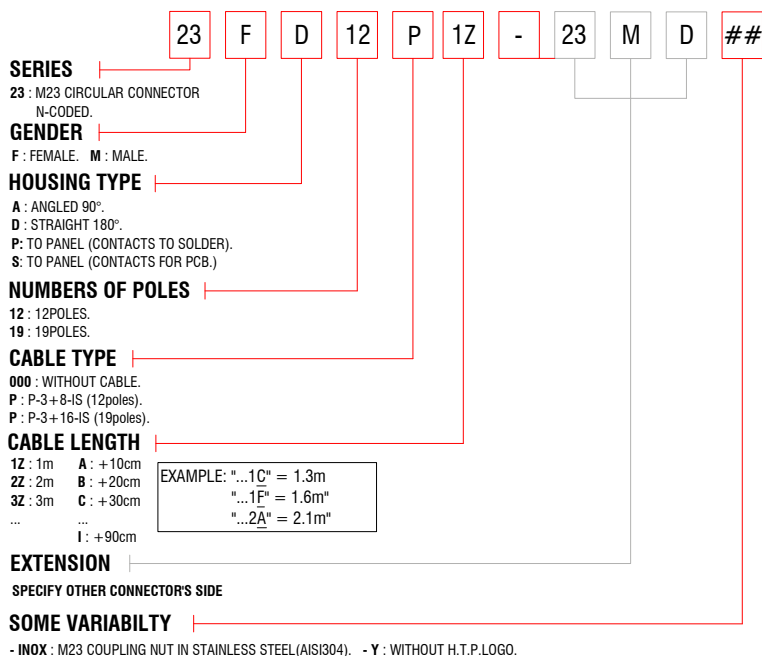
Stainless steel AISI304(upon request).

Protection class :

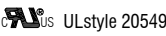
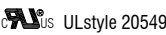
IP 67.

Operating temperature :

-25°C + 90°C.



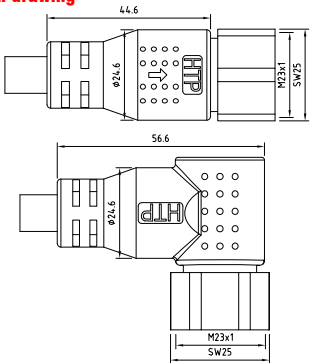
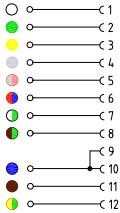
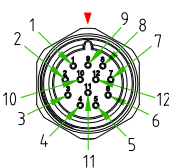
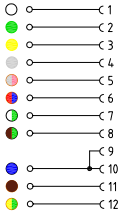
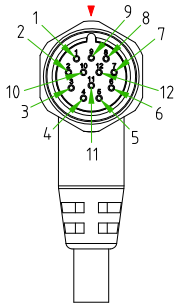
M23 CONNECTORS CABLE:

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 (0.82mm ²) (0.34mm ²)	3 + 8	ø8.8mm	-40°C / + 80°C
P-3+16-IS	PUR/PP	 ULstyle 20549	Black	3GAWG 18 + 16xAWG 22 (0.82mm ²) (0.34mm ²)	3 + 16	ø10.6mm	-40°C / + 80°C

M23 CIRCULAR CONNECTORS

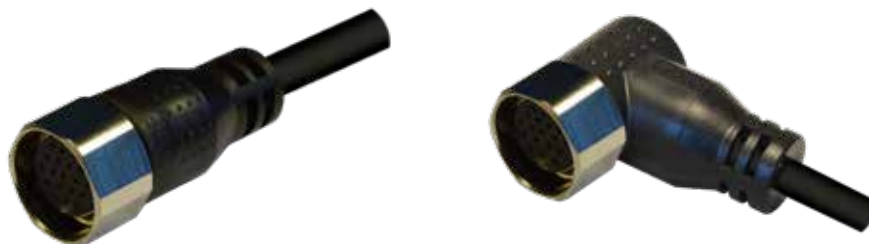
Moulded cable connectors



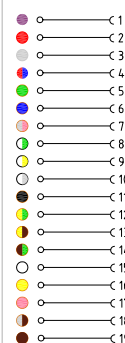
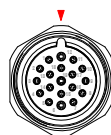
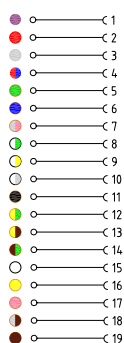
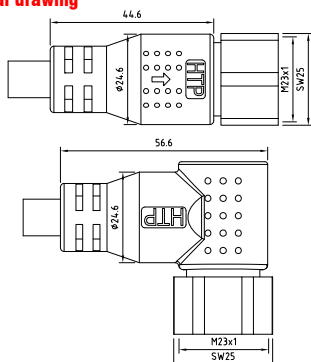
<div> <div> Technical drawing  </div> <div>   </div> <div>   </div> </div>																																												
<div> Product description </div> <table> <tr> <td>Connector type</td><td>Circular connector with moulded cable</td><td>Circular connector with moulded cable</td></tr> <tr> <td>Construction type</td><td>M23 N-Coded</td><td>M23 N-Coded</td></tr> <tr> <td>Description</td><td>Circular connector M23 series with moulded cable</td><td>Circular connector M23 series with moulded cable</td></tr> <tr> <td>Part number</td><td>23FD12P1Z-K6-IS</td><td>23FA12P1Z-K6-IS</td></tr> <tr> <td>Housing type</td><td>Straight 180°</td><td>Angled 90°</td></tr> <tr> <td>Cable gland</td><td>Moulded cable</td><td>Moulded cable</td></tr> <tr> <td>Contacts type</td><td>Female</td><td>Female</td></tr> <tr> <td>Number of contacts</td><td>12poles</td><td>12poles</td></tr> <tr> <td>Housing colour</td><td>Black</td><td>Black</td></tr> </table>			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	23FD12P1Z-K6-IS	23FA12P1Z-K6-IS	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															
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	23FD12P1Z-K6-IS	23FA12P1Z-K6-IS																																										
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																																										
<div> Technical data </div> <table> <tr> <td>Type of termination</td><td>Contacts to solder wires</td><td>Contacts to solder wires</td></tr> <tr> <td>Contacts material</td><td>Brass + Gold flash</td><td>Brass + Gold flash</td></tr> <tr> <td>Coupling nut type</td><td>Hexagonal (SW25)</td><td>Hexagonal (SW25)</td></tr> <tr> <td>M23 coupling nut material</td><td>Brass + Nickel plated</td><td>Brass + Nickel plated</td></tr> <tr> <td>M23 coupling nut torque</td><td>-</td><td>-</td></tr> <tr> <td>Rated voltage</td><td>150V AC/DC</td><td>150V AC/DC</td></tr> <tr> <td>Rated current</td><td>8A</td><td>8A</td></tr> <tr> <td>O-ring material</td><td>-</td><td>-</td></tr> <tr> <td>Cable type</td><td>PUR/TPO ULstyle20549</td><td>PUR/TPO ULstyle20549</td></tr> <tr> <td>Cable jacket colour</td><td>Black</td><td>Black</td></tr> <tr> <td>No. Conductors / Section</td><td>8x22AWG + 3x18AWG</td><td>8x22AWG + 3x18AWG</td></tr> <tr> <td>Conductor colours</td><td>Wh;Gn;Ye;Gy;Gy/Pk;Rd/Bu;Wh/Gn;Bn/Gn;Bu;Bn;Ye/Gn.</td><td>Wh;Gn;Ye;Gy;Gy/Pk;Rd/Bu;Wh/Gn;Bn/Gn;Bu;Bn;Ye/Gn.</td></tr> <tr> <td>Cable diameter</td><td>ø8.8mm (±0.3)</td><td>ø8.8mm (±0.3)</td></tr> <tr> <td>Cable length</td><td>1m</td><td>1m</td></tr> </table>			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;Bn/Gn;Bu;Bn;Ye/Gn.	Wh;Gn;Ye;Gy;Gy/Pk;Rd/Bu;Wh/Gn;Bn/Gn;Bu;Bn;Ye/Gn.	Cable diameter	ø8.8mm (±0.3)	ø8.8mm (±0.3)	Cable length	1m	1m
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<div> Other accessories options </div> <div>See accessories section</div>																																												
<div> Notes: Connectors available with different features: See the general features and codification scheme page See the cables list section </div>																																												

M23 CIRCULAR CONNECTORS

Moulded cable connectors



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	23FD19P1Z-K6-IS	23FA19P1Z-K6-IS
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;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;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
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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

M23 CIRCULAR CONNECTORS

Moulded cable connectors



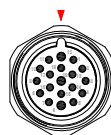
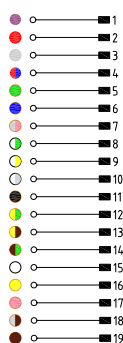
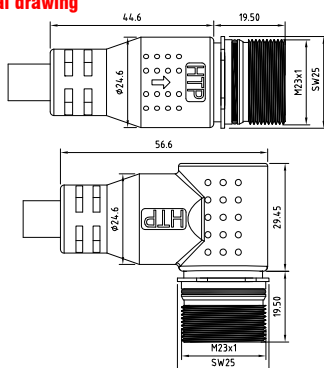
Technical drawing <p>The technical drawing shows three views of the M23 connectors. The top view shows the straight connector with dimensions: 44.6 mm length, 19.50 mm diameter, and 56.6 mm length for the angled version. The bottom view shows the angled connector with dimensions: 29.45 mm length and 19.50 mm diameter. The pin configurations are shown as 12-pin circular connectors with color-coded pins (1-12) and a central ground pin (11).</p>		
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	23MD12P1Z-K6-IS	23MA12P1Z-K6-IS
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; Bn/Gn;Bu;Bn;Ye/Gn.	Wh;Gn;Ye;Gy;Gy/Pk;Rd/Bu;Wh/Gn; 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 feautres: See the general features and codification scheme page See the cables list section		

M23 CIRCULAR CONNECTORS

Moulded cable connectors



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	23MD19P1Z-K6-IS	23MA19P1Z-K6-IS
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;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;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
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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

M23 CIRCULAR CONNECTORS

Moulded cable connectors



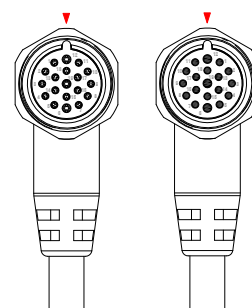
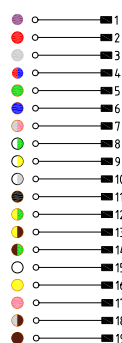
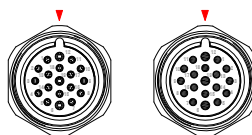
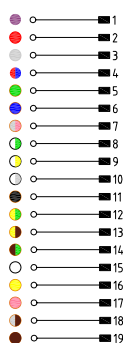
Technical drawing		
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Product description		
Connector type	Circular connectors with moulded cable	Circular connectors with moulded cable
Construction type	M23 N-Coded	M23 N-Coded
Description	Extension M23-M23 connectors with moulded cable	Extension M23-M23 connectors with moulded cable
Part number	23FD12P1Z23MD-K6-IS	23FA12P1Z23MA-K6-IS
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
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;Bn/Gn;Bu;Bn;Ye/Gn.	Wh;Gn;Ye;Gy;Gy/Pk;Rd/Bu;Wh/Gn;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 feautres: See the general features and codification scheme page See the cables list section		

M23 CIRCULAR CONNECTORS

Moulded cable connectors



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	23FD19P1Z23MD-K6-IS	23FA19P1Z23MA-K6-IS
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; 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; 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
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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

M23 CIRCULAR CONNECTORS

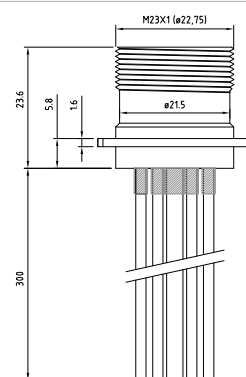
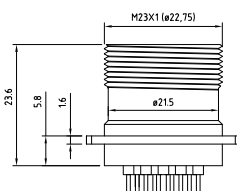
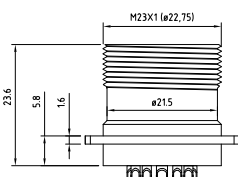
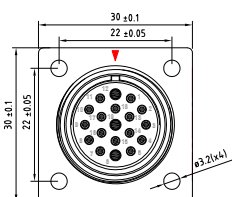
Panel mount connectors



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,panle mount, with contacts suitable for solder PCB.	Circular connector M23 series,panel mount, with PVC soldered wires.
Part number	23MP12000-FL	23MS12000-FL	23MP12P0C-FL
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
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	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
Packaging			
Qty/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			



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	23MP19000-FL	23MS19000-FL	23MP19P0C-FL
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	-	-	-
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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 : \varnothing CABLE 6.5 - 9.5mm.

Conductor cross section :
0.14(26AWG)...1mm²(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.

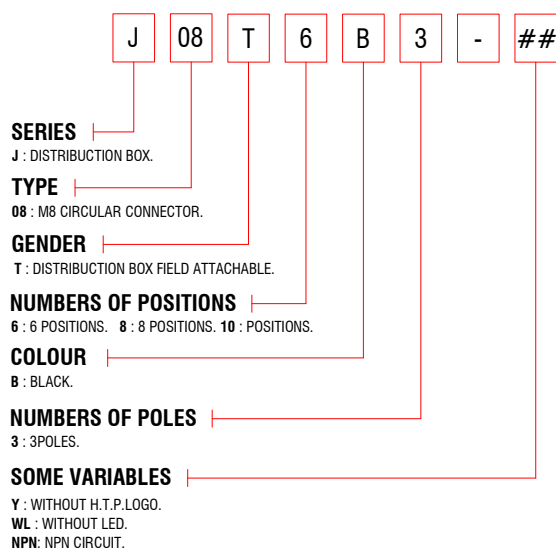
Internal core material :
PA66 UL94-V2.

Coupling nut material :
Brass + Nickel plated.

Flammability resistance :
UL94-V2 - Standard.

Protection class :
IP 67 (assembled).

Operating temperature :
-40°C +90°C.



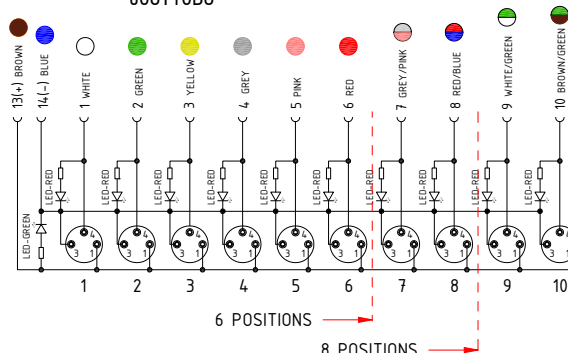
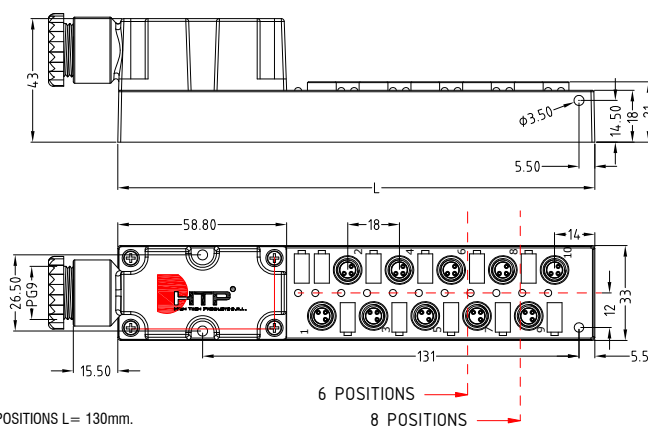
J08T6B3



J08T8B3



J08T10B3



DISTRIBUTION BOXES

M8 with moulded cable

• 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.

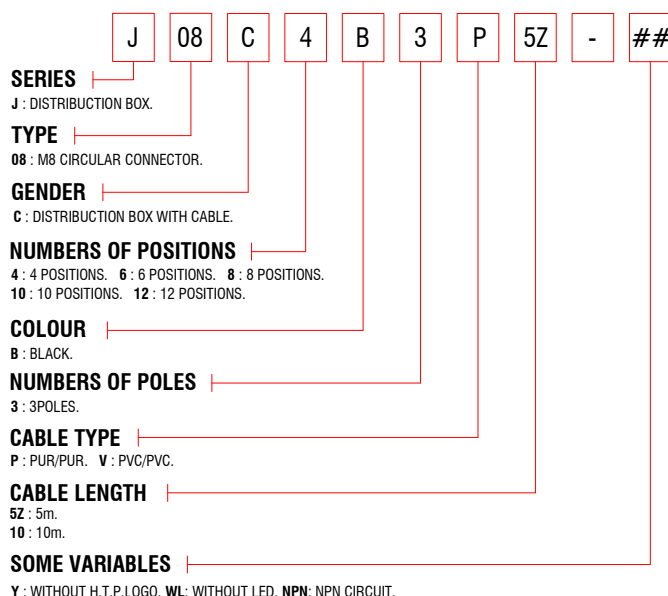
Internal core material :
PA66 UL94-V2.

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...



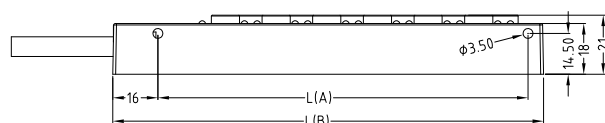
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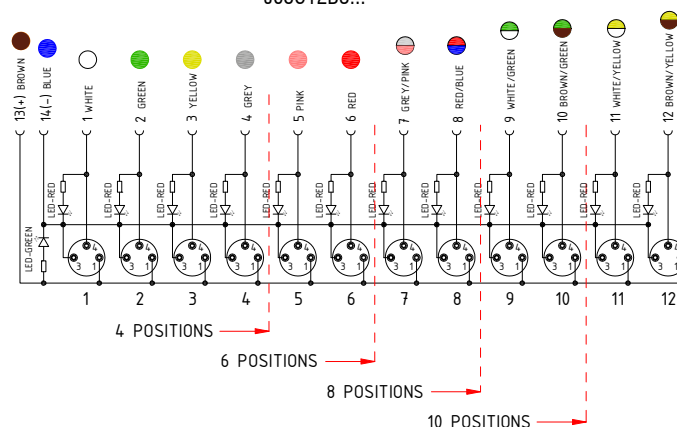
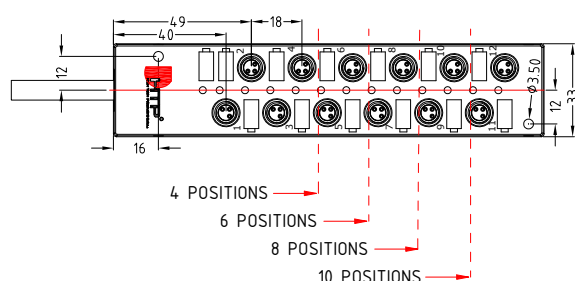
J08C8B3...



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.



● **GENERAL FEATURES:**

Type of terminations :
M12 connector.

Rated voltage:
10-30V DC.

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

Flammability resistance :
UL94-V2 - Standard.

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

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

M8 Contact material and treatment :
Brass + Gold flash.

Protection class :
IP 67 (assembled).

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

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.

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.

Coupling nut material :
Brass + Nickel plated.

SIGNAL per OUTLET:
Single.

J 08 M 4 B 3 - ##

SERIES
J : DISTRIBUTION BOX.

TYPE
08 : M8 CIRCULAR CONNECTOR.

GENDER
M : DISTRIBUTION BOX WITH M12.

NUMBERS OF POSITIONS
4 : 4 POSITIONS. 6 : 6 POSITIONS. 8 : 8 POSITIONS.
10 : 10 POSITIONS. 12 : 12 POSITIONS.

COLOUR
B : BLACK.

NUMBERS OF POLES
3 : 3POLES.

SOME VARIABLES
Y : WITHOUT H.T.P. LOGO.
WL : WITHOUT LED.
NPN : NPN CIRCUIT.



J08M4B3



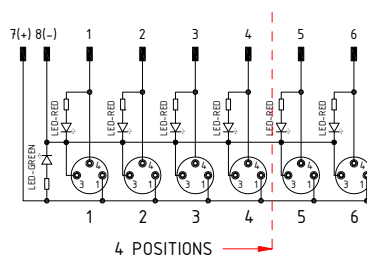
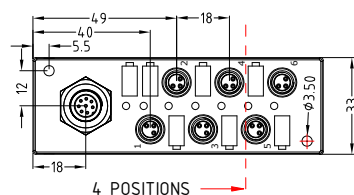
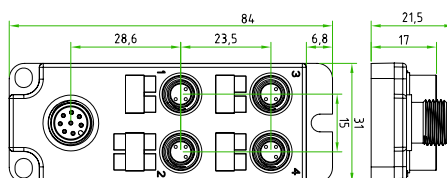
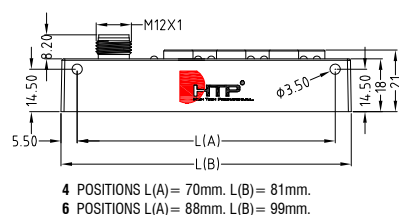
J08M6B3



J08S4B3



J08S4B3-L8



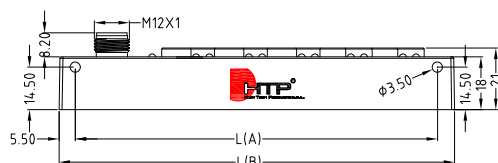
NEW

DISTRIBUTION BOXES

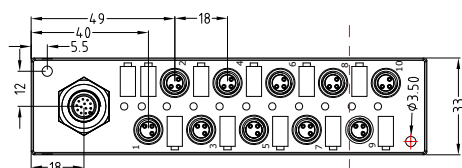
M8 distribution boxes with M12 INPUT connector



J08M8B3



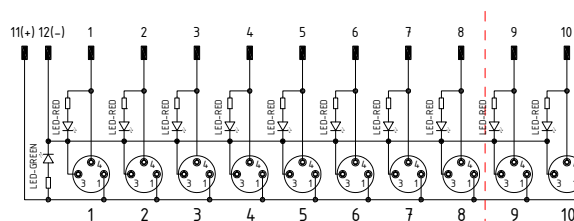
8 POSITIONS L(A) = 105.75mm. L(B) = 116.75mm.
10 POSITIONS L(A) = 123.50mm. L(B) = 134.90mm.



8 POSITIONS



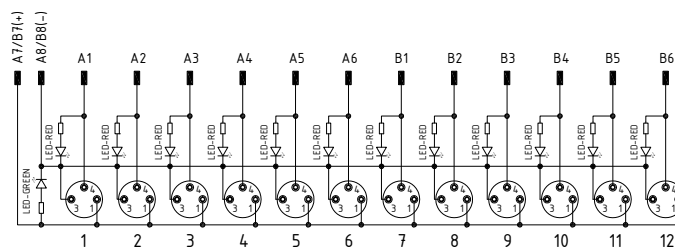
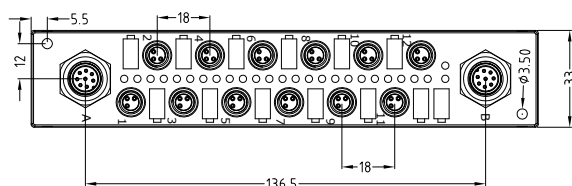
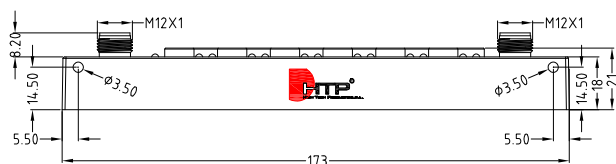
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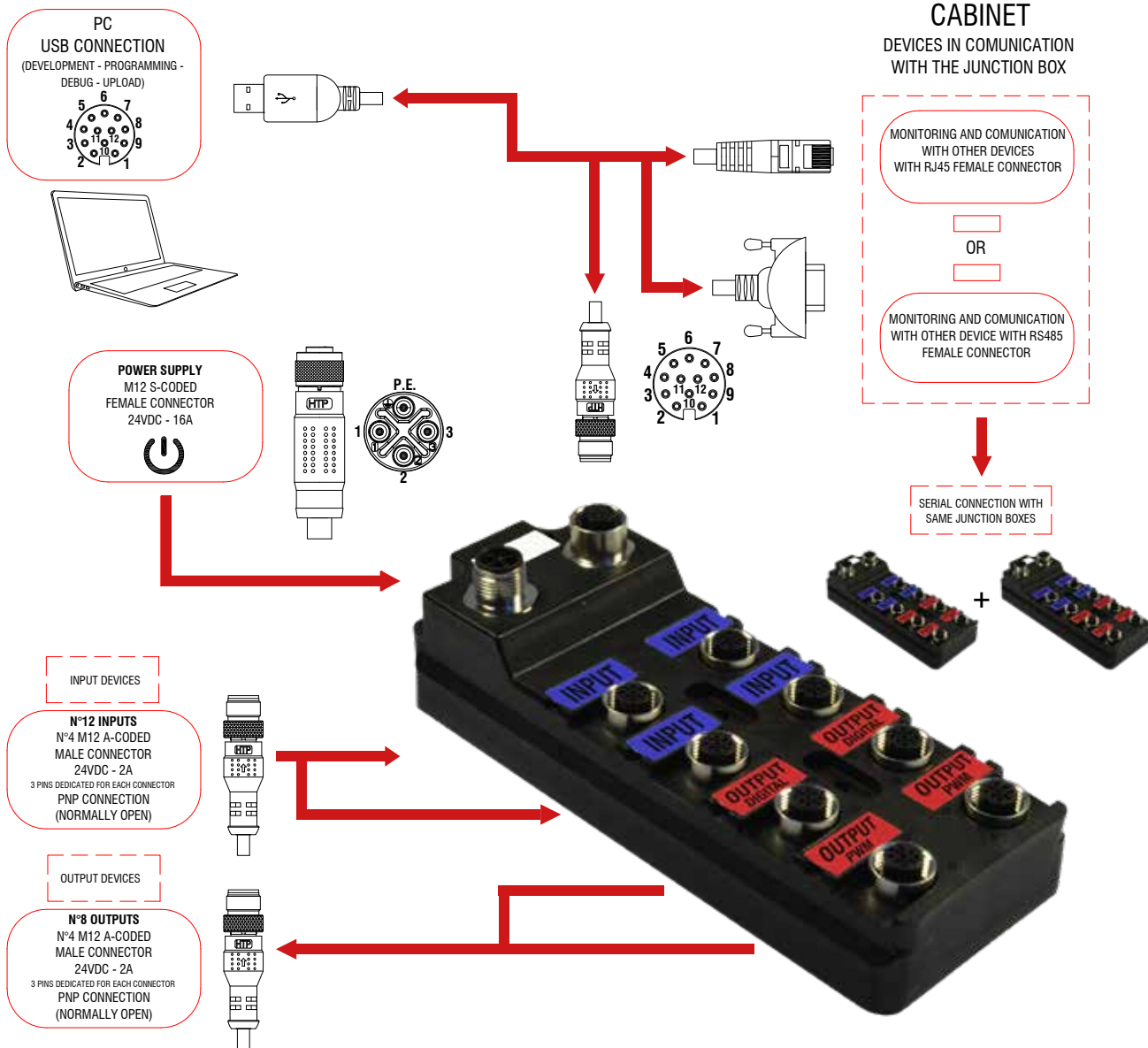
8 POSITIONS



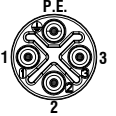
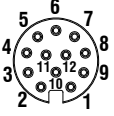
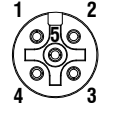
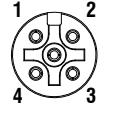
J08M12B3

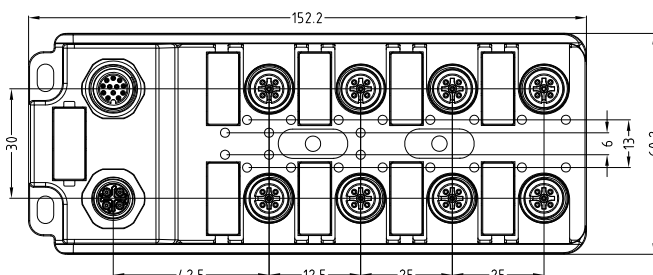
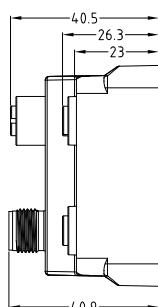


IP67 SMART JUNCTION BOX WITH INTEGRATED PLC



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 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				



DISTRIBUTION BOXES

IP67 Smart junction box with integrated PLC



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"> User friendly programming language (Sequential function chart) derived from GRAFCET and IEC-61131-3 Fast program-debug-deploy cycle 			

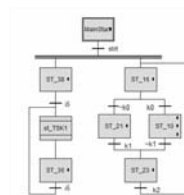
The application development environment is based on a graphical environment running upon the Windows Operating systems (from Windows XP to Windows 10), which assists the designer throughout the whole design cycle of an embedded application, from the sketch of the first modules to the deployment of the 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.



Validation of the design and codes generation

This application can validate and generate the code necessary to create the working file to upload on the Junction box.

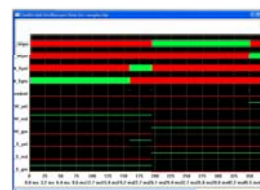
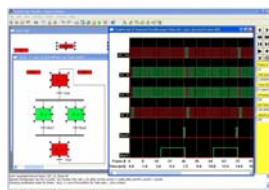
The validation explain clearly, which are the mistakes made during the program creation, making a report file available directly on the application.

During the codes generation phase can be made all the file, also the one usable to make the simulation.

Simulation of the design, possibly interacting with a model of the controlled periphery

Using the same application, easily can be made a step by step simulation, focused specific inputs, outputs, tasks and variables present on the flow chart steps.

It is possible changing the simulating visualization focus, in real time.



Upload of the embedded application to the target physical junction box

Thanks the connection available by USB, it is easily uploading the application using the code generation, on the junction box.

Test of the design within the physical environment

Using the application is possible to verify the correct operation of the program, directly on the junction box.

Diagnosis of the physical environment

It is easy to verify the correct operation of the junction box during the work functions

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
KIT components features			
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
Notes:	<ul style="list-style-type: none"> Usually to get the Junction Box is needed to buy the KIT complete of components In special cases it is possible to buy a part of the kit, please contact us to verify the feasibility 		



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-PLC	pastic bag (complete of wiring diagram sheet)
OUTPUT connector part number	A4B0C-C3-C3-PLC	pastic bag (complete of wiring diagram sheet)
Notes:	<ul style="list-style-type: none"> please contact us to verify the MOQ to place a order 	



12MA12A5ZMB-PLC



A5B0C-C3-C3-PLC



A4B0C-C3-C3-PLC

DISTRIBUTION BOXES

M12 field attachable



GENERAL FEATURES:

Type of terminations :
Terminal block with screws.

Cable Gland :
PG13.5 : \varnothing CABLE 7 - 12mm.

Conductor cross section :
0.14(26AWG)...1.5mm²(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.

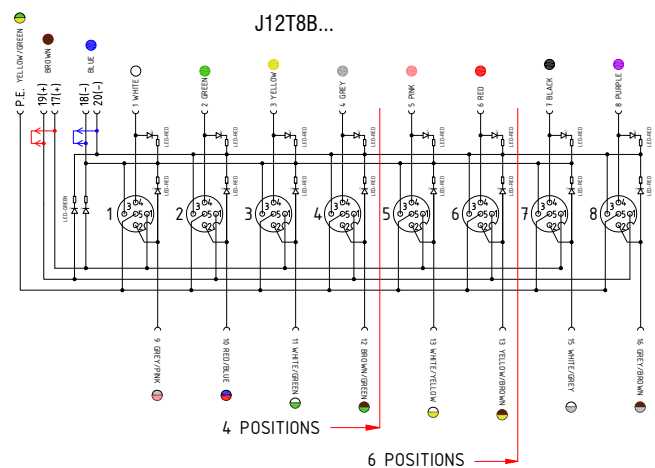
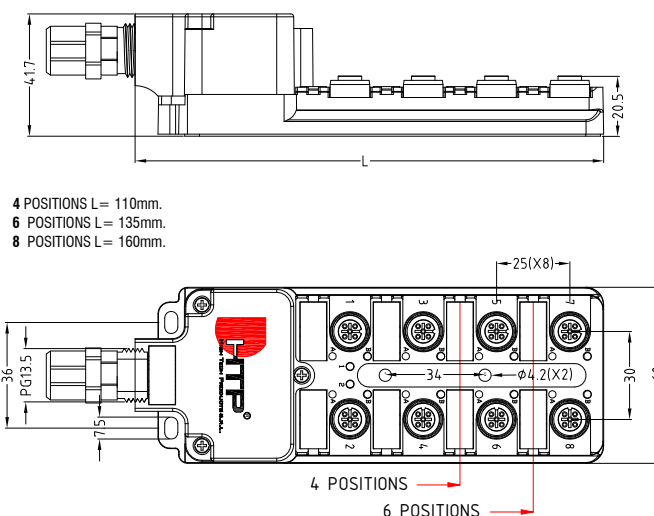
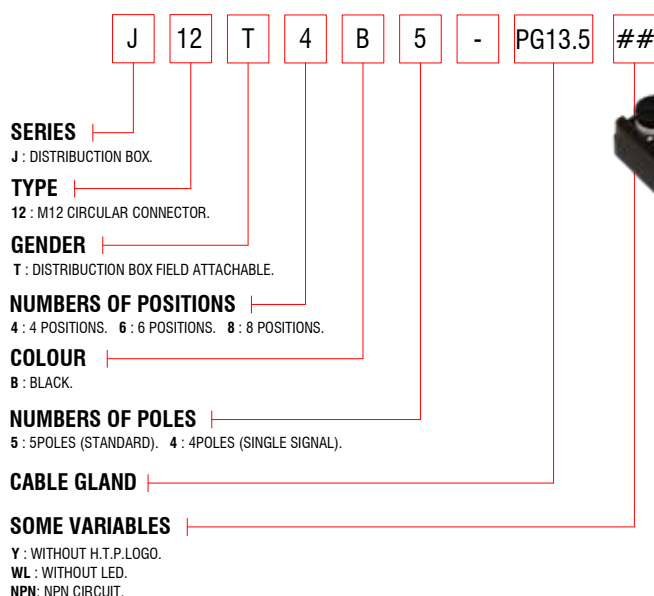
Internal core material :
PA66 UL94-V2.

Coupling nut material :
Brass+Nickel plated.

Flammability resistance :
UL94-V2 - Standard.

Protection class :
IP 67 (assembled).

Operating temperature :
-40°C +90°C.



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.

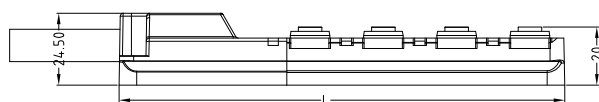
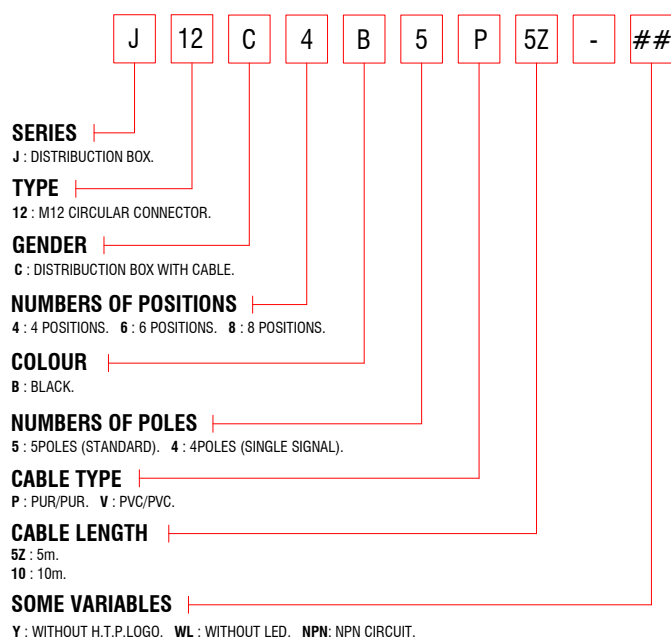
Internal core material :
PA66 UL94-V2.

Operating temperature :
-40°C + 90°C.

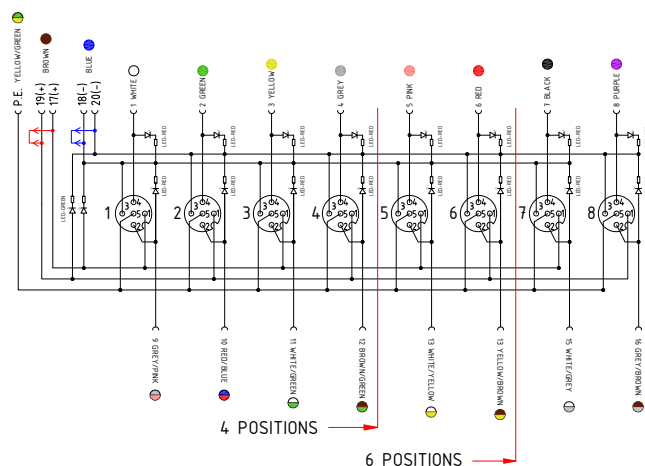
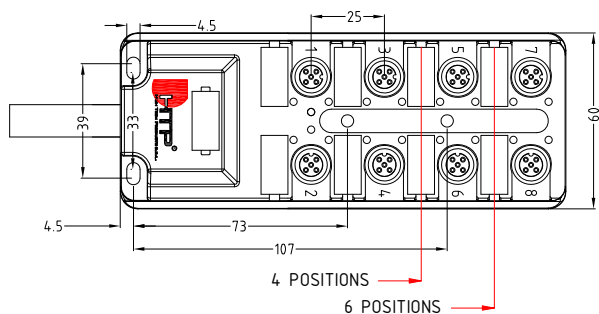
SIGNAL per OUTLET:
Double.
Single (upon request).

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

Coupling nut material :
Brass + Nickel plated.



4 POSITIONS L = 102mm.
6 POSITIONS L = 130mm.
8 POSITIONS L = 150mm.

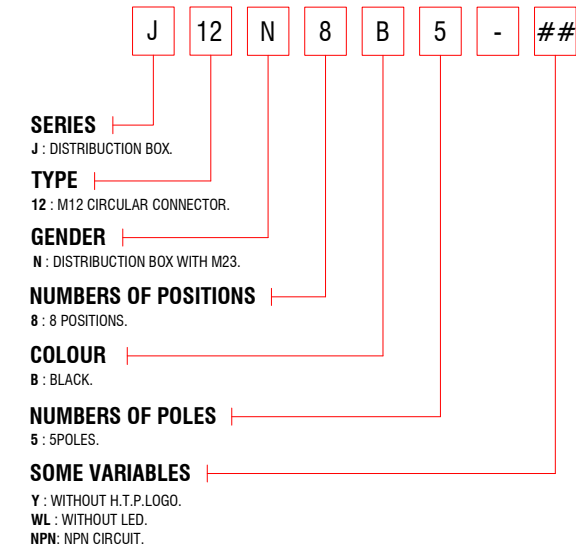


DISTRIBUTION BOXES
M12 distribution boxes with M23 INPUT connector

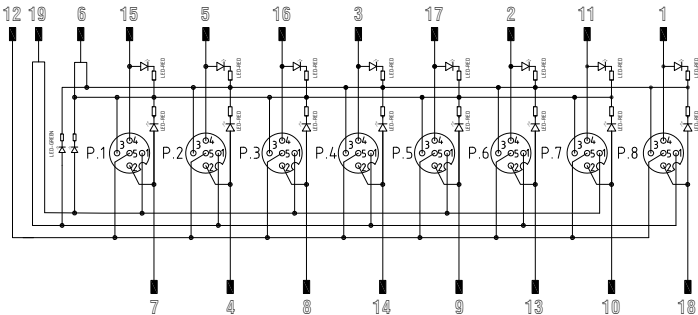
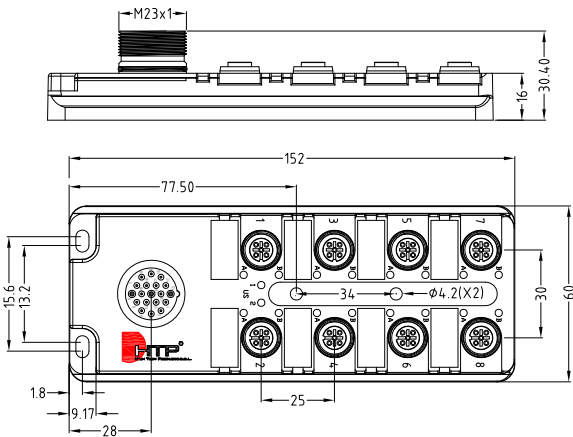


• GENERAL FEATURES:

Type of terminations : M23 connector.	Rated voltage: 10-30V DC.	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: 4A. Total rated current: 12A.	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 : M12 coupling nut.	Internal core material : PA66 UL94-V2.	
SIGNAL per OUTLET: Double. Single(Upon request).	Max. screw torque IEC60947-1 : M12 coupling nut torque 0.4 N*m.	Coupling nut material : Brass+Nickel plated.	
		Flammability resistance : UL94-V2 - Standard.	



J12N8B5



[illegible]



**AUTOMOTIVE / METRIPACK
CONNECTORS**

AUTOMOTIVE / METRIPACK CONNECTORS

Automotive connectors with moulded cable
interchangeable with METRIPACK 150series

• GENERAL FEATURES OF MOULDED CONNECTORS:

Conductor cross section :
0.34mm²(22AWG)...1(18AWG).

Contact seal material :
Round liquid silicone.

Protection class :
IP 67.

Fixing system :
Suitable for Metri-pack system
coupling.

Housing material :
Polypropylene.

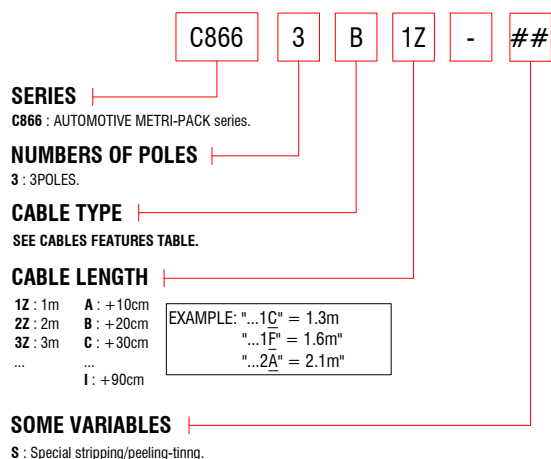
Operating temperature :
-25°C +90°C

Type of terminations :
Crimped wires.

Nominal current :
7,5A.

Contact material and treatment :
Brass + tin plated.

Max contact current :
15A.



• AUTOMOTIVE CONNECTORS CABLES:

Code	Material	Type of cable	Colour	Section	No.core	Cable ø mm ±0.3	Temperature range °C
01	PVC/PVC	IEC332-1 H03VVF	Black	0.50mm ²	3	ø5mm	-20°C / +80°C
02	PVC/PVC	IEC332-1 H05VVF	Black	0.75mm ²	3	ø6.7mm	-20°C / +80°C
B*	PVC/PVC	CEI2022	Black	0.34mm ²	3	ø 4.8mm	-20°C / +80°C
L	PVC/PVC	CEI2022	Grey RAL7032	0.34mm ²	3	ø 4.8mm	-20°C / +80°C
D*	PUR/PUR		Black	0.34mm ²	3	ø 4.8mm	-40°C / +80°C
BD*	PUR/PUR	Li-YY11Y	Black	0.75mm ²	3	ø6.7mm	-40°C / +80°C

* = Cables with minimum quantity required.

AUTOMOTIVE / METRIPACK CONNECTORS

Automotive connectors interchangeable with DT series with
moulded cable / General features and codification scheme



• GENERAL FEATURES OF MOULDED CONNECTORS:

Conductor cross section :
0.34(22AWG)...0.75mm²(18AWG).

Contact material and treatment :
Brass + tin plated.

Internal core material :
PA66.

Fixing system :
Interchangeable with DT series
connector system.

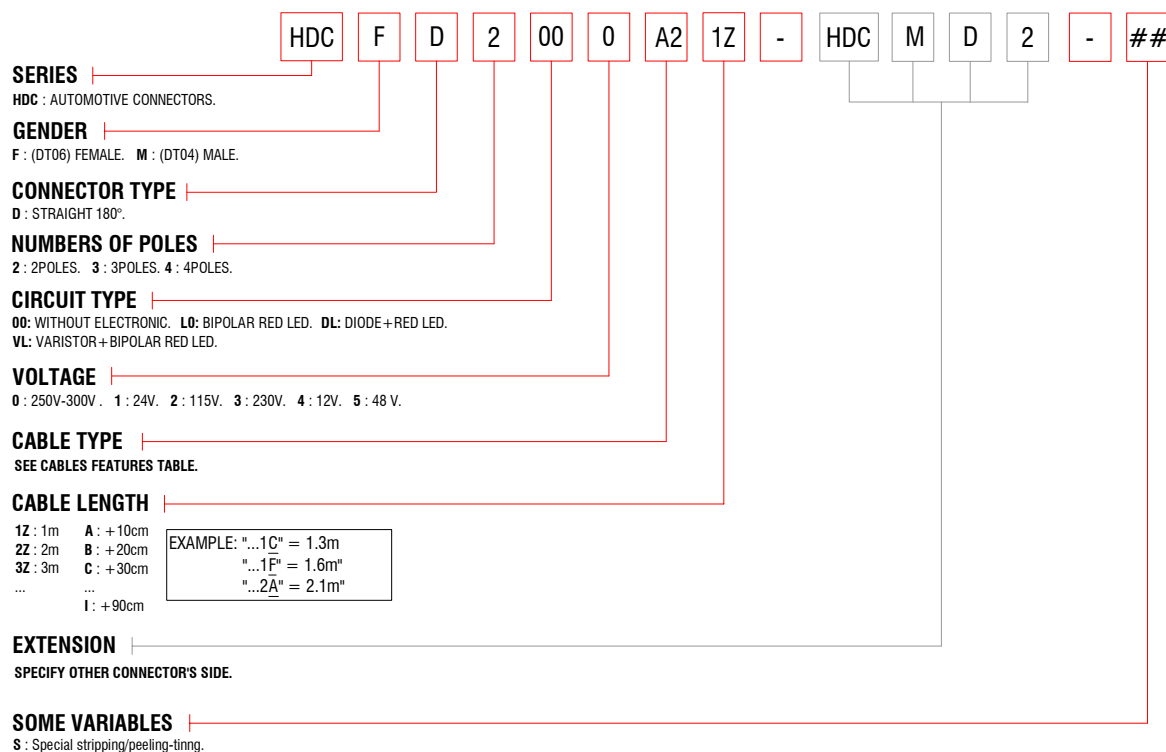
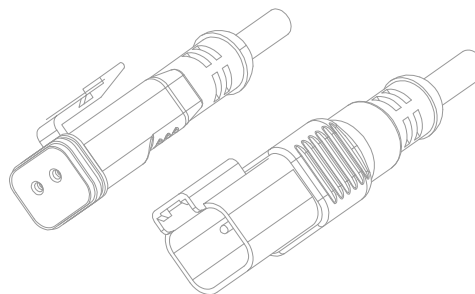
Contact seal material :
Round liquid silicone.

Protection class :
IP 67.

Type of terminations :
Crimping wires.

Housing material :
Polypropylene.

Operating temperature :
-25°C +90°C.

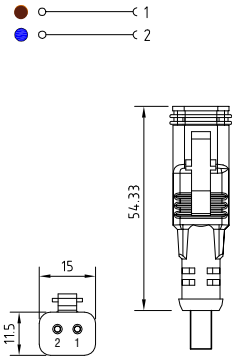
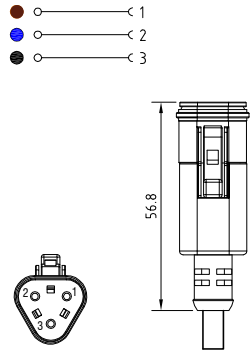
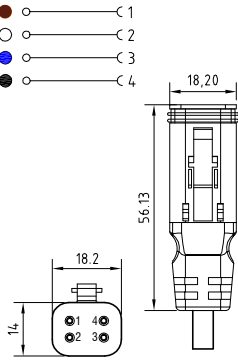
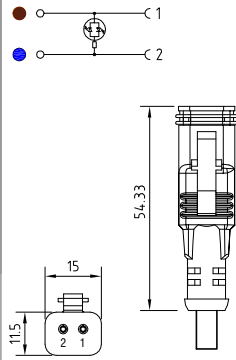


• AUTOMOTIVE CONNECTORS CABLES:

Code	Material	Type of cable	Colour	Section	No.core	Cable ø mm ±0.3	Temperature range °C	Wires colouring
BA	PUR/PUR	Li-YY11Y	Black	0.75mm ²	2	ø 6.5mm	-40°C / +80°C	Brown;Blue
BD	PUR/PUR	Li-YY11Y	Black	0.75mm ²	3	ø 6.7mm	-40°C / +80°C	Brown;Blue;Black
BE	PUR/PUR	Li-YY11Y	Black	0.75mm ²	4	ø 7 mm	-40°C / +80°C	Brown;Blue;Black;White

* = Cables with minimum quantity required.

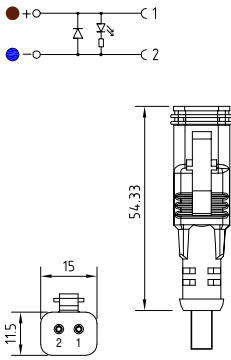
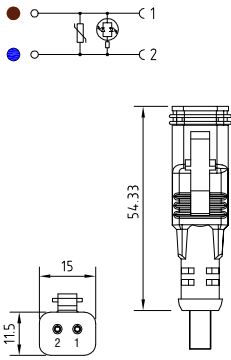


Technical drawing				
				
Product description				
Connector type	Automotive/Valve connector	Automotive/Valve connector	Automotive/Valve connector	Automotive/Valve connector
Interchangeable to	Deutsch DT06	Deutsch DT06	Deutsch DT06	Deutsch DT06
Construction type	Valve connector DT series	Valve connector DT series	Valve connector DT series	Valve connector DT series
Description	Automotive/Valve connector with moulded cable. Connector without electronic.	Automotive/Valve connector with moulded cable. Connector without electronic.	Automotive/Valve connector with moulded cable. Connector without electronic.	Automotive/Valve connector with moulded cable. Connector with electronic.
Part number	HDCFD2000BA1Z	HDCFD3000BD1Z	HDCFD4000BE1Z	HDCFD2L01BA1Z
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	2x0.75mm ²	3x0.75mm ²	4x0.75mm ²	2x0.75mm ²
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				

AUTOMOTIVE / METRIPACK CONNECTORS

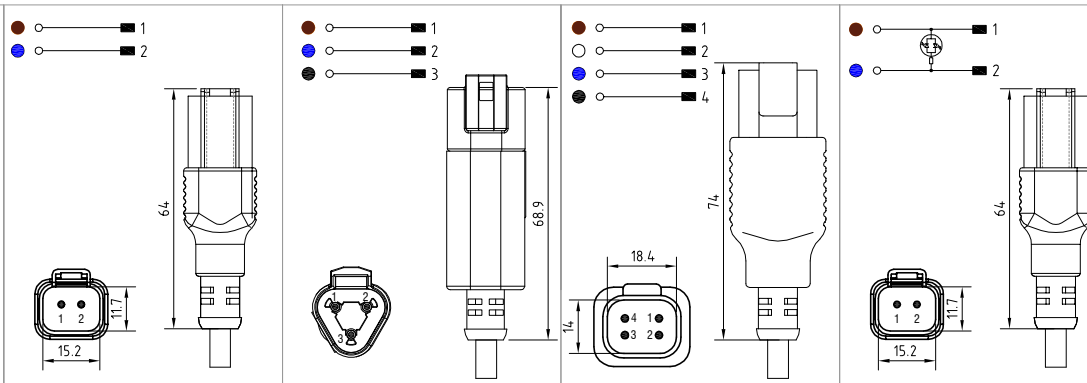
Automotive connectors interchangeable with DT series
with moulded cable



Technical drawing				
Product description				
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. Connector with electronic.	Automotive/Valve connector with moulded cable. Connector with electronic.		
Part number	HDCFD2DL1BA1Z	HDCFD2VL1BA1Z		
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		
Technical data				
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 ²	2x0.75mm ²		
Conductor colours	Brown; Blue	Brown; Blue		
Cable diameter	ø6.5mm (±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 feautres: See the general features and codification scheme page See the cables list section				



Technical drawing



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. Connector without electronic.	Automotive/Valve connector with moulded cable. Connector without electronic.	Automotive/Valve connector with moulded cable. Connector without electronic.	Automotive/Valve connector with moulded cable. Connector with electronic.
Part number	HDCMD2000BA1Z	HDCMD3000BD1Z	HDCMD4000BE1Z	HDCMD2L01BA1Z
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 ²	3x0.75mm ²	4x0.75mm ²	2x0.75mm ²
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
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Other accessories options

See accessories section

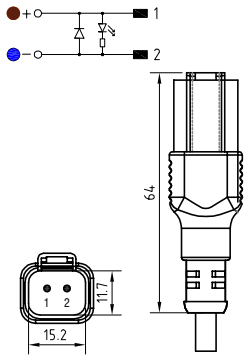
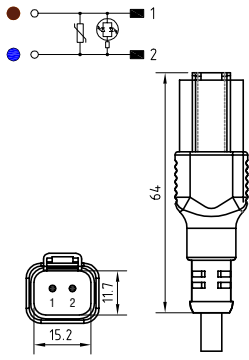
Notes:

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

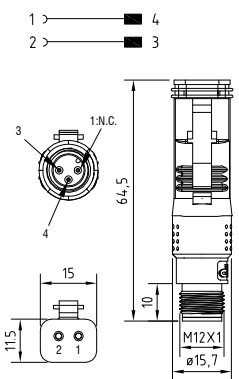
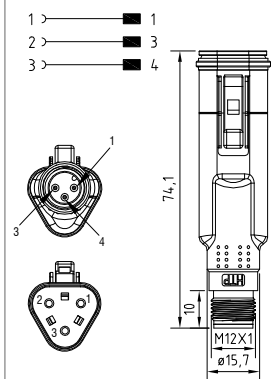
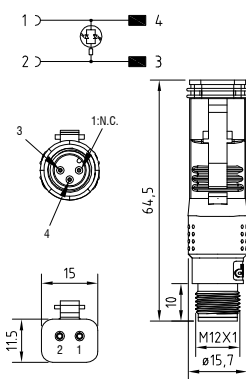
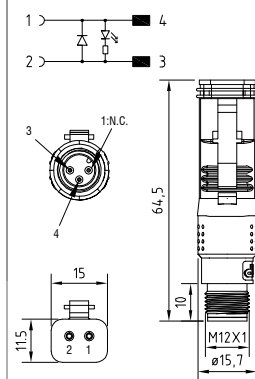
AUTOMOTIVE / METRIPACK CONNECTORS

Automotive connectors interchangeable with DT series
with moulded cable



Technical drawing				
Product description				
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. Connector with electronic.	Automotive/Valve connector with moulded cable. Connector with electronic.		
Part number	HDCMD2DL1BA1Z	HDCMD2VL1BA1Z		
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		
Technical data				
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 ²	2x0.75mm ²		
Conductor colours	Brown; Blue	Brown; Blue		
Cable diameter	ø6.5mm (±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				



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	HDCFD2000-12MD	HDCFD3000-12MD	HDCFD2L01-12MD	HDCFD2DL1-12MD
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
Internal cores 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.

AUTOMOTIVE / METRIPACK CONNECTORS

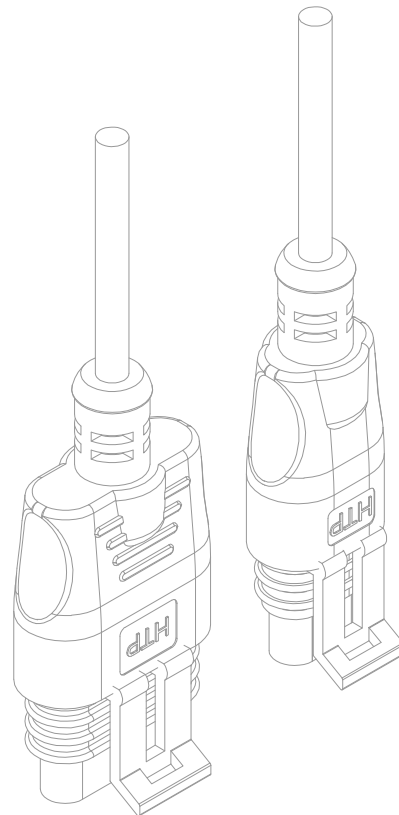
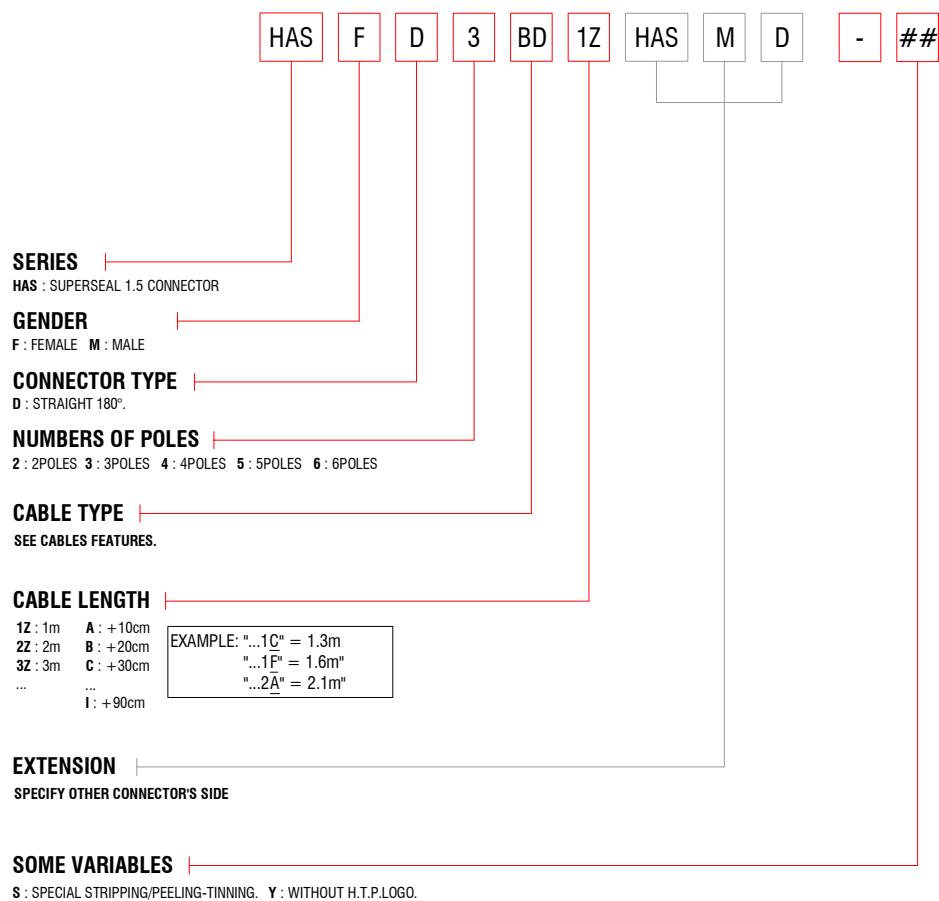
Automotive connectors interchangeable with DT series with moulded cable

Automotive connectors interchangeable with DT series with moulded cable



AUTOMOTIVE / METRIPACK CONNECTORS

Automotive Superseal 1.5mm connectors with moulded cable
/ General features and codification scheme Automotive



• SUPERSEAL CONNECTORS CABLES:

Code	Material	Type of cable	Colour	Section	No.core	Cable ø mm ±0.3	Temperature range °C	Wires colouring
BA	PUR/PUR	Li-YY11Y	Black	0.75mm ²	2	ø 6.5mm	-40°C / +80°C	Brown;Blue
BD	PUR/PUR	Li-YY11Y	Black	0.75mm ²	3	ø 6.7mm	-40°C / +80°C	Brown;Blue;Black
BE	PUR/PUR	Li-YY11Y	Black	0.75mm ²	4	ø 7 mm	-40°C / +80°C	Brown;Blue;Black;White
BF	PUR/PUR	Li-YY11Y	Black	0.75mm ²	5	ø 7.5 mm	-40°C / +80°C	Brown;Blue;Black;White;Grey
BG*	PUR/PUR	Li-YY11Y	Black	0.75mm ²	6	ø 8 mm	-40°C / +80°C	Green; Brown; White; Pink; Grey; Yellow

* = Cables with minimum quantity required.

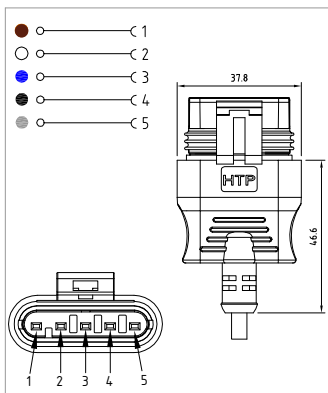
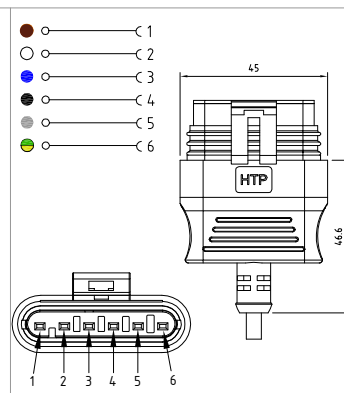
AUTOMOTIVE / METRIPACK CONNECTORS

Superseal 1.5mm connectors with moulded cable



Technical drawing			
Product description			
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	HASFD2BA1Z	HASFD3BD1Z	HASFD4BE1Z
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
Technical data			
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 ²	3x0.75mm ²	4x0.75mm ²
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
Packaging			
Qty/Bag	1 pc / bag	1 pc / bag	1 pc / bag
Other accessories options			
See accessories section			
Notes:			



			
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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		
HASFD5BF1Z	HASFD6BG1Z		
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 ²	6x0.75mm ²		
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		
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Other accessories options

See accessories section			
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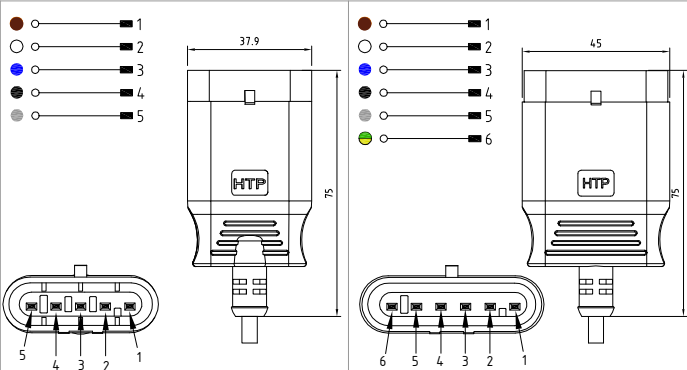
Notes:

AUTOMOTIVE / METRIPACK CONNECTORS

Superseal 1.5mm connectors with moulded cable



Technical drawing			
Product description			
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	HASMD2BA1Z	HASMD3BD1Z	HASMD4BE1Z
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
Technical data			
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 ²	3x0.75mm ²	4x0.75mm ²
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
Packaging			
Qty/Bag	1 pc / bag	1 pc / bag	1 pc / bag
Other accessories options			
See accessories section			
Notes:			



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		
HASMD5BF1Z	HASMD6BG1Z		
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		
5x0.75mm²	6x0.75mm²		
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		
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Other accessories options

See accessories section			
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Notes:

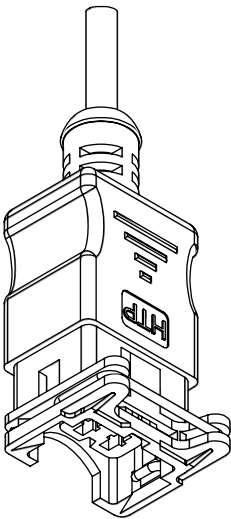
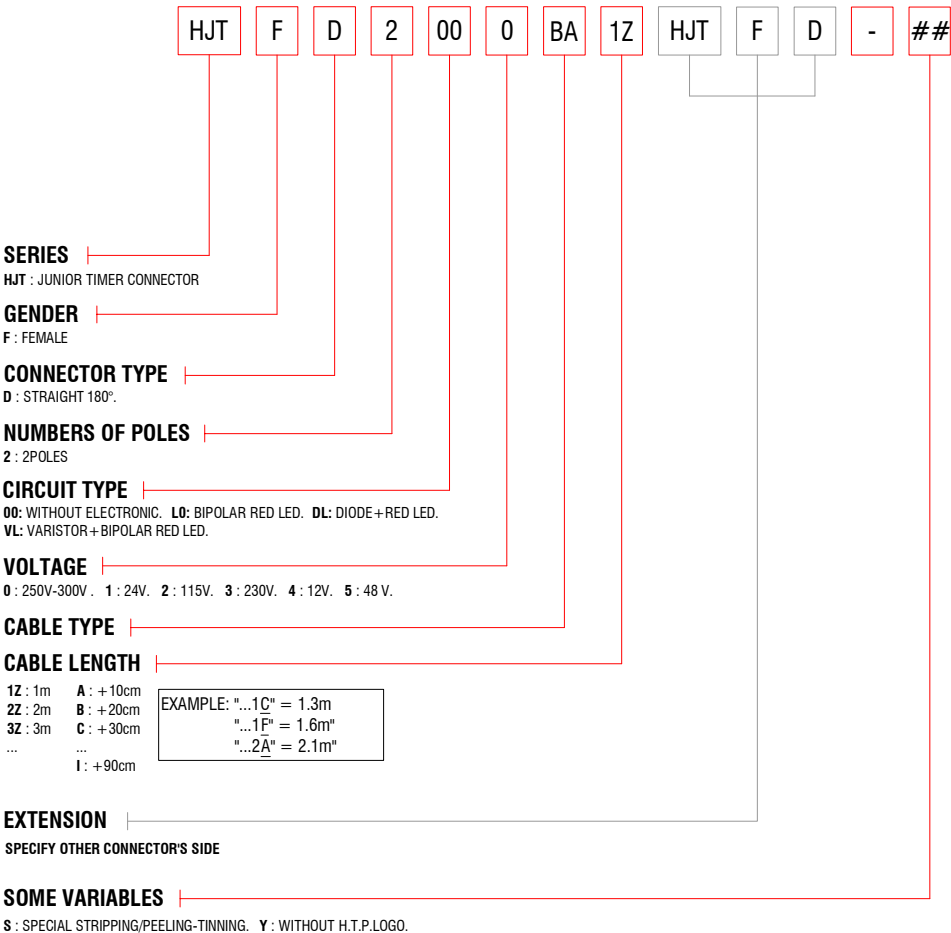
AUTOMOTIVE / METRIPACK CONNECTORS

Superseal 1.5mm connectors with moulded cable



Technical drawing				
Product description				
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	HASFD2000-12MD	HASFD3000-12MD	HASFD4000-12MD	HASFD5000-12MD
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
Technical data				
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
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 feautures: See the general features and codification scheme page See the cables list section				

GENERAL FEATURES OF MOULDED CONNECTORS:



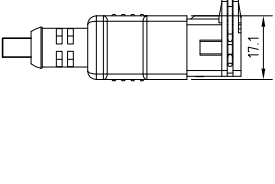
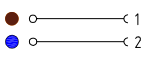
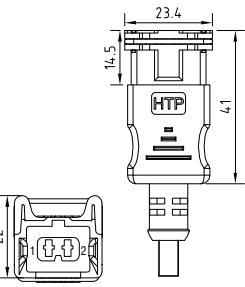
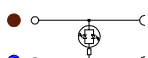
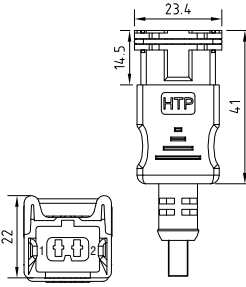
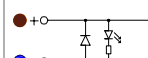
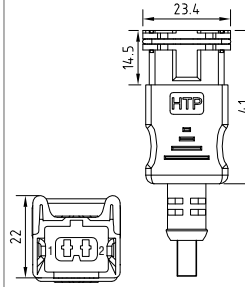
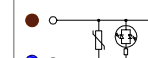
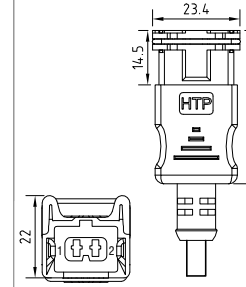
SUPERSEAL CONNECTORS CABLES:

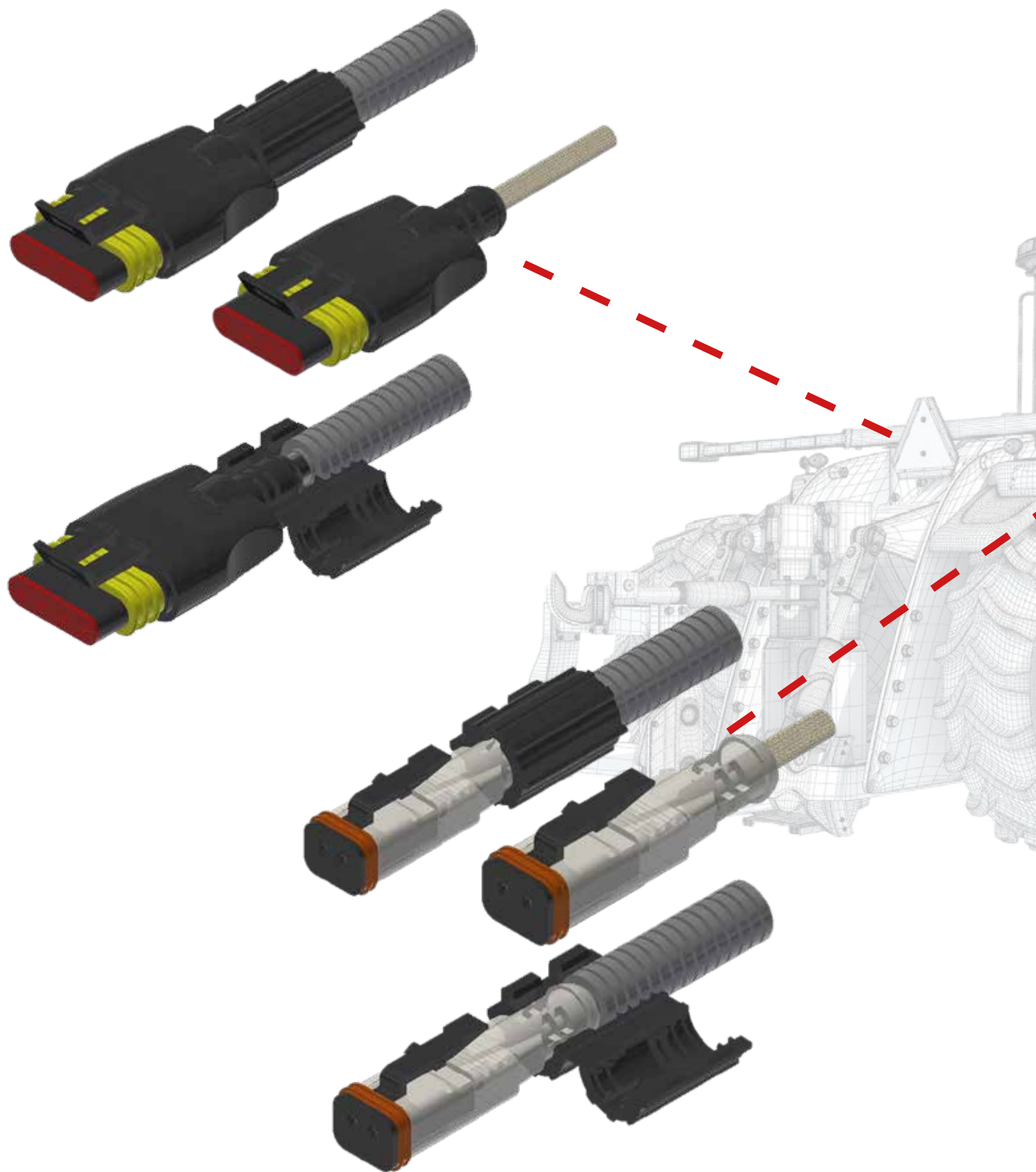
Code	Material	Type of cable	Colour	Section	No.core	Cable ø mm ±0.3	Temperature range °C	Wires colouring
A2	PVC/PVC	IEC332-1 H05VVF	Black	0.75mm²	2	ø 6mm	-20°C / +80°C	Brown;Blue
A9	PUR/PUR		Black	0.75mm²	2	ø 6mm	-40°C / +80°C	Brown;Blue
BA	PUR/PUR	Li-YY11Y	Black	0.75mm²	2	ø 6.5mm	-40°C / +80°C	Brown;Blue

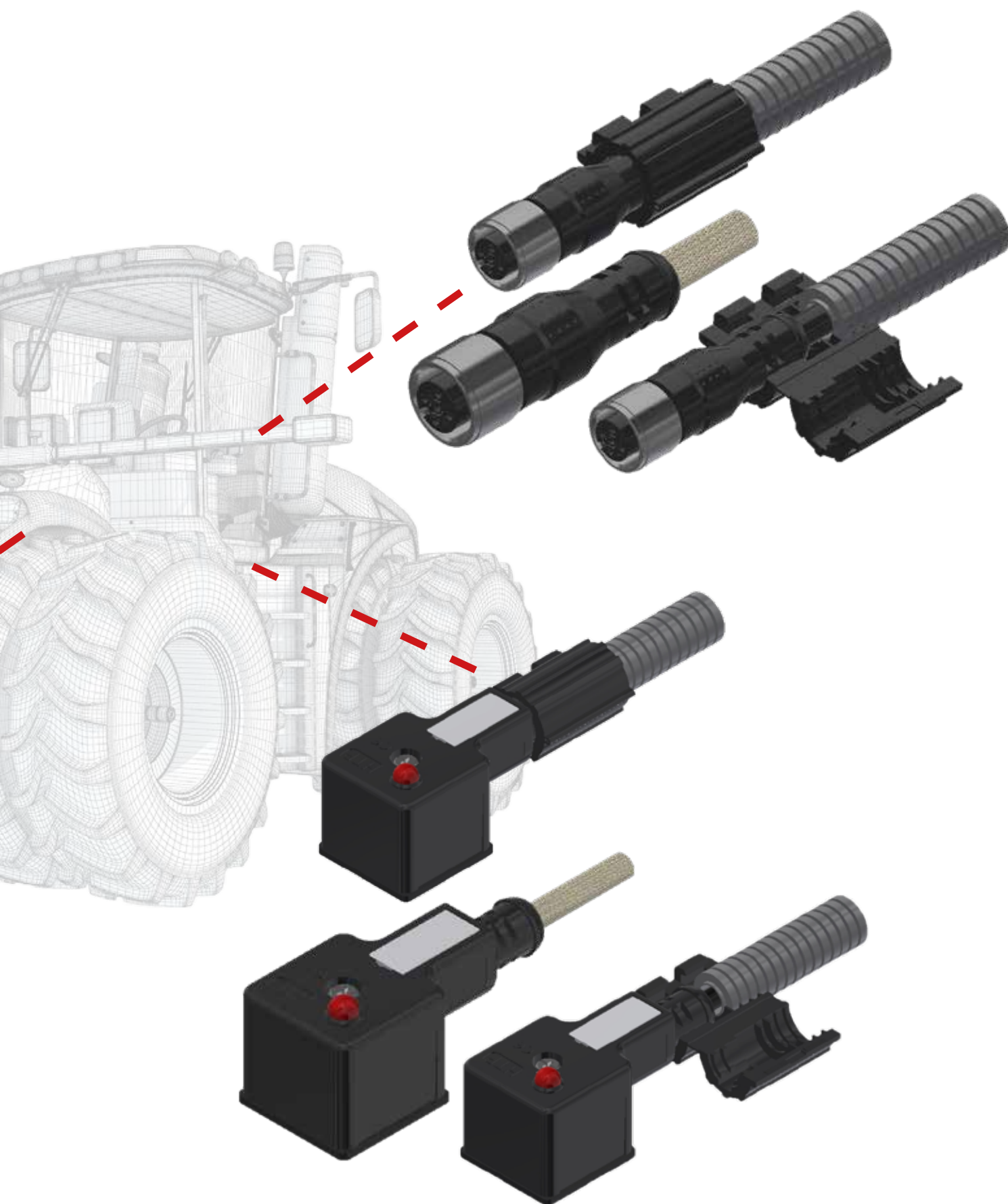
AUTOMOTIVE / METRIPACK CONNECTORS

Junior Timer connectors



Technical drawing 				
	 	 	 	 
Product description				
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	HJTFD2000BA1Z	HJTFD2L01BA1Z	HJTFD2DL1BA1Z	HJTFD2VL1BA1Z
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
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
Internal core 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 ²	2x0.75mm ²	2x0.75mm ²	2x0.75mm ²
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
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 LED colours.				





Notes:

[illegible]

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.

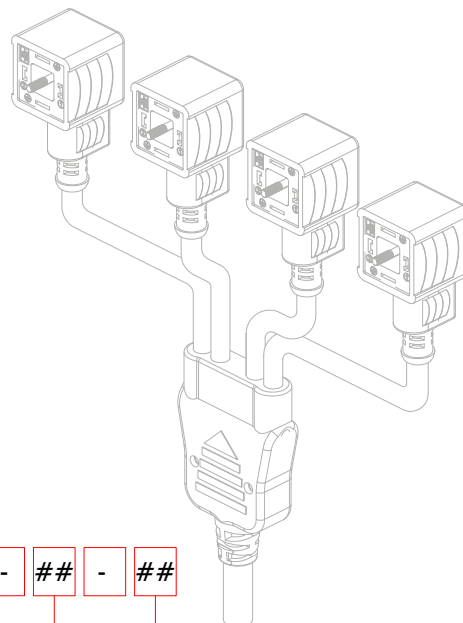
Contact material and treatment :
Brass + Silver plated.

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 HD5VVF	Black	0.75mm ²	4	ø7mm	-20°C / +80°C
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3 EXITS:

C2	PVC/PVC	IEC332-1 HD5VVF	Black	0.75mm ²	5	ø8.3mm	-20°C / +80°C
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4-5-6 EXITS:

8N	PVC/PVC	CEI2022	Black	0.34mm ²	8	ø8.3mm	-20°C / +80°C
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7-8 EXITS:

4P	PUR/TPO	ULstyle 20549	Black	0.34mm ² 0.75mm ²	8 3	ø8.8mm	-25°C / +80°C
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9-10-11-12-13-14-15-16 EXITS:

8P	PUR/TPO	ULstyle 20549	Black	0.34mm ² 0.75mm ²	16 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.

SPECIAL CONNECTORS

M8-M12 Splitter connectors - General features and codification scheme



• GENERAL FEATURES:

Conductor cross section :

M8: 0.14(26AWG) ... 0.5mm²(20AWG).

M12: 0.25(24AWG) ... 0.75mm²(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.

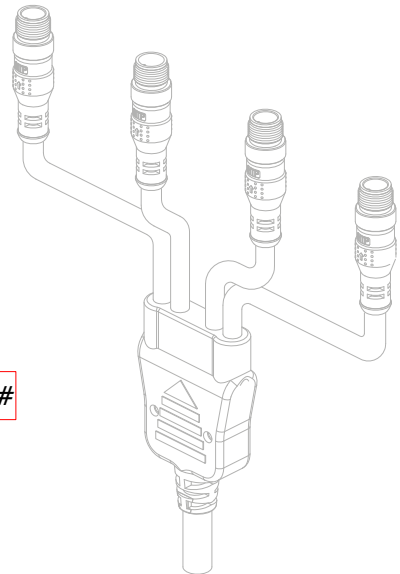
Stainless steel AISI304(upon request).

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:

B2	PVC/PVC	IEC332-1 H05VWF	Black	0.75mm ²	4	ø7mm	-20°C / +80°C
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3 EXITS:

C2	PVC/PVC	IEC332-1 H05VWF	Black	0.75mm ²	5	ø8.3mm	-20°C / +80°C
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4-5-6 EXITS:

B8	PVC/PVC	CEI2022	Black	0.34mm ²	8	ø8.3mm	-20°C / +80°C
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7-8 EXITS:

4P	PUR/TPO	ULstyle 20549	Black	0.34mm ² 0.75mm ²	8 3	ø8.8mm	-25°C / +80°C
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9-10-11-12-13-

14-15-16 EXITS:

8P	PUR/TPO	ULstyle 20549	Black	0.34mm ² 0.75mm ²	16 3	ø10.6mm	-25°C / +80°C
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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

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.

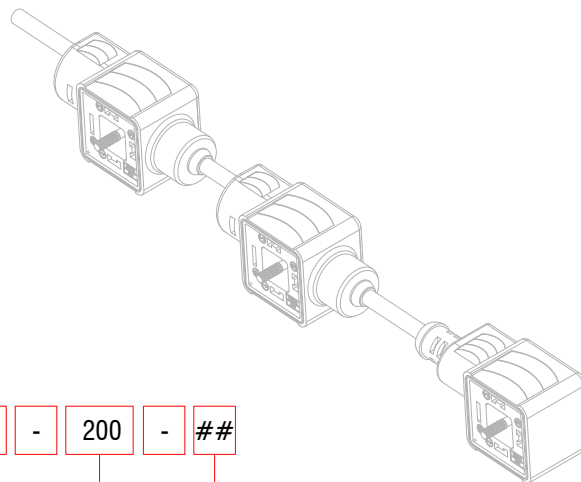
Contact material and treatment :
Brass + Silver plated.

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 HD5VVF	Black	0.5mm ²	4	ø6mm	-20°C / +80°C
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3 EXITS:

B1	PVC/PVC	CEI2022H0R	Black	0.5mm ²	5	ø6mm	-20°C / +80°C
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4-5-6 EXITS:

B-8	PVC/PVC	CEI2022	Black	0.34mm ²	6	ø6.5mm	-20°C / +80°C
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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.

SPECIAL CONNECTORS

Valve chain connectors - General features and codification scheme



• 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.

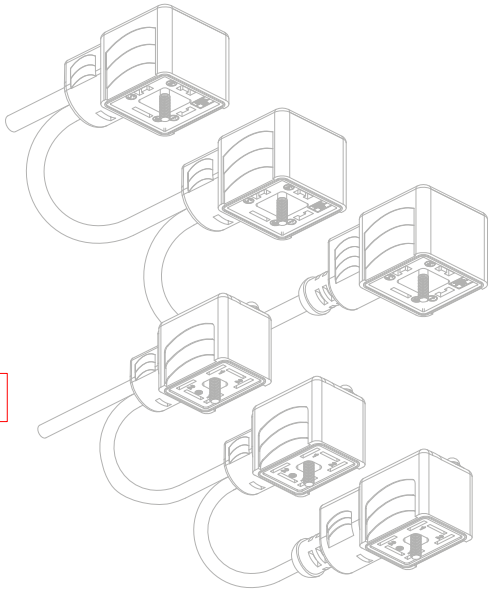
Contact material and treatment :
Brass + Silver plated.

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 H05VVF	Black	0.5mm ²	4	ø6mm	-20°C / +80°C
3 EXITS:	B1	PVC/PVC	CEI2022H0R	Black	0.5mm ²	5	ø6mm	-20°C / +80°C
4-5-6 EXITS:	B-6	PVC/PVC	CEI2022	Black	0.34mm ²	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.

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)

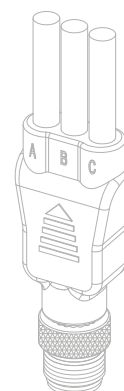
3 : 3POLES. **4 :** 4POLES. **8 :** 8POLES. **12 :** 12POLES.

RATED VOLTAGE (DIN conn.)

A : 24V. **B :** 115V. **C :** 230V. **D :** 12V. **E :** 48V.

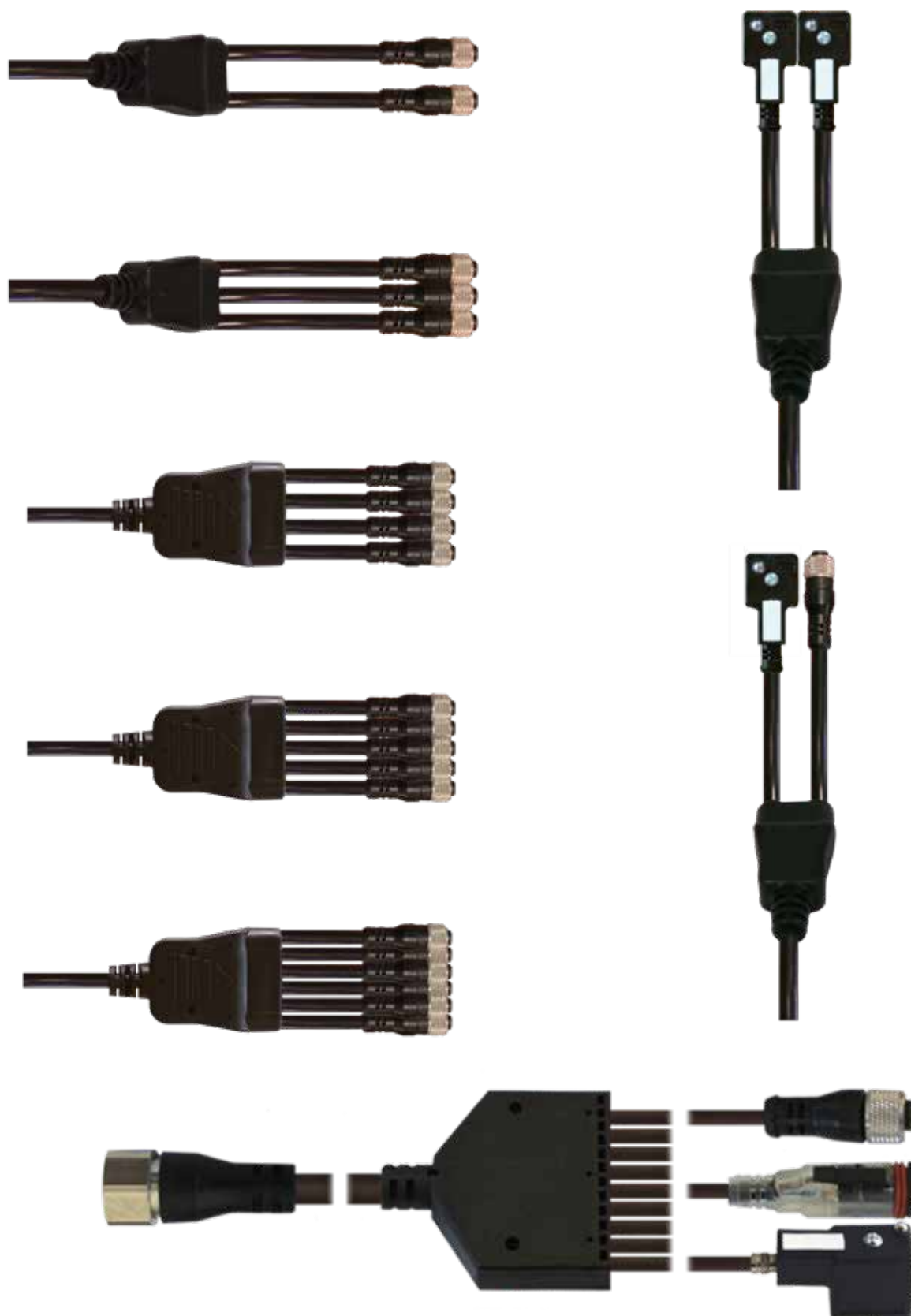
SOME VARIABLES

Y : WITHOUT H.T.P.LOGO. **##:** CUSTOMIZED VARIABLES.



SPECIAL CONNECTORS

Customized products



WE CAN PRODUCE CUSTOMIZED PRODUCTS IN CONFORMITY WITH CUSTOMER'S REQUIREMENTS; MULTIPLE CONNECTORS CAN BE RANGE FROM 2 UP TO 16 CONNECTORS.

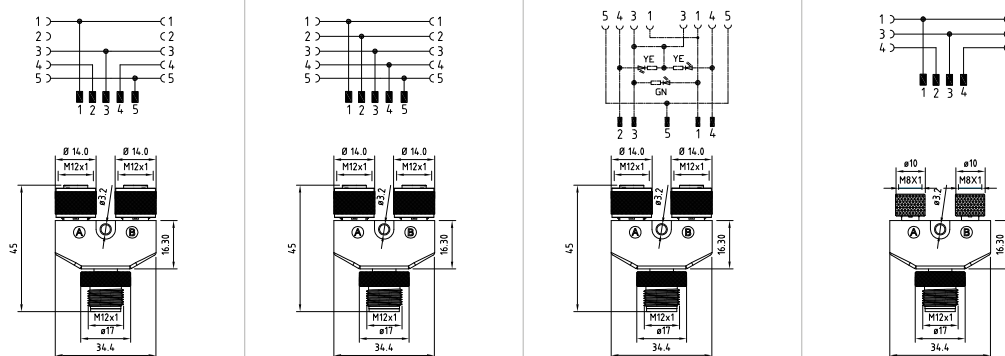


Customized products





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		12T34000	12T35000	12T45000	12T308F
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
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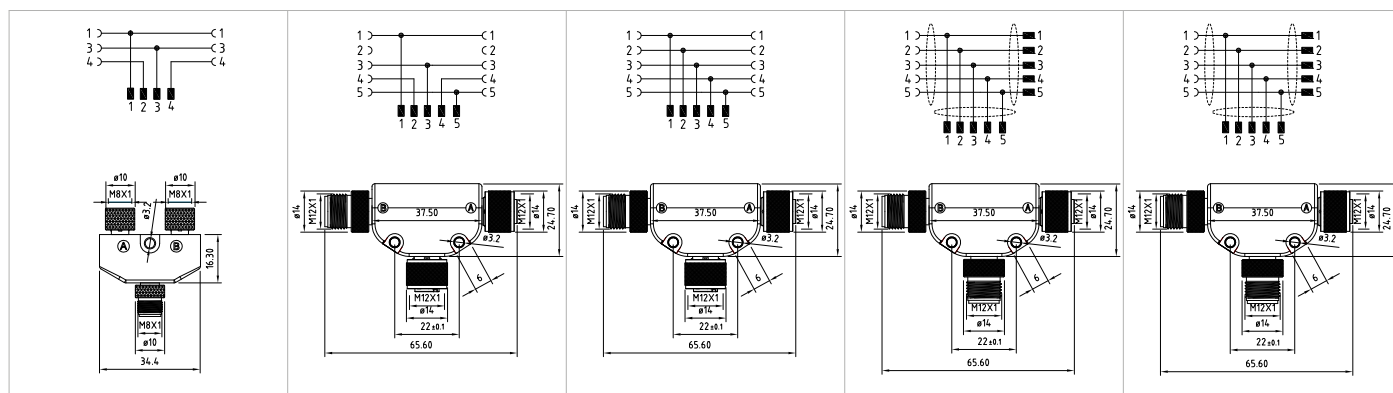
Other accessories options

See accessories section

Notes:

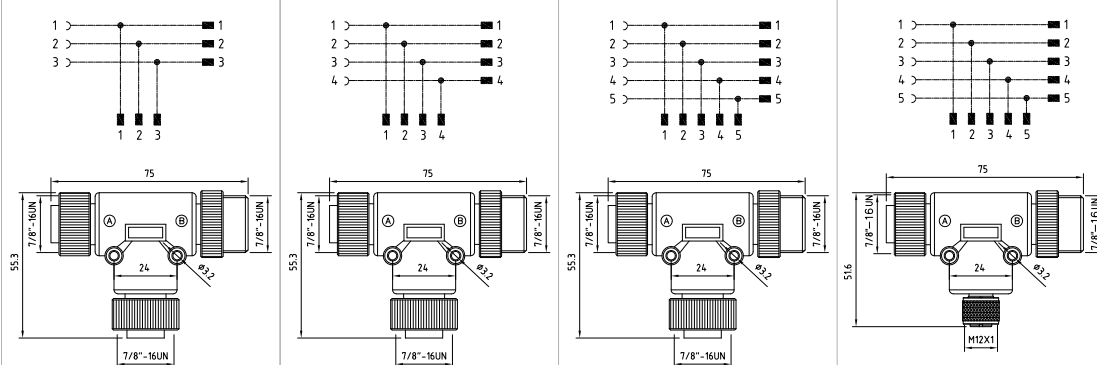
SPECIAL CONNECTORS

M8-M12 Y SPLITTER connectors





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		78T73000	78T74000	78T75000	78T76000
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	7/8" Female
	Side B	7/8" Male	7/8" Male	7/8" Male	7/8" Male
	INPUT side	7/8" Female	7/8" Female	7/8" Female	M12 Female
Number of contacts	Side A	3poles	4poles	5poles	5poles
	Side B	3poles	4poles	5poles	5poles
	INPUT side	3poles	4poles	5poles	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
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Other accessories options

See accessories section

Notes:

SPECIAL CONNECTORS

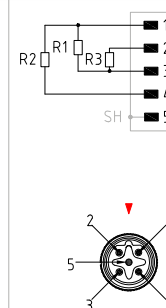
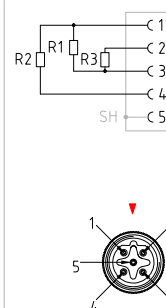
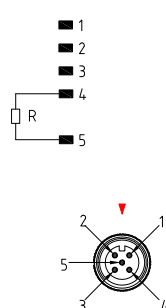
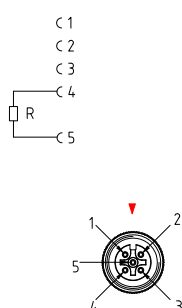
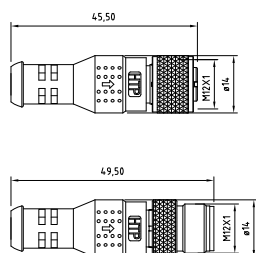
M8-M12 Adapter connectors



Technical drawing					
Product description					
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		08FD3-12MD3	08FD4-12MD4	12FD5-12FD5	12MD5-12MD5
Description		M8-M12 Adapter connector Female-Male	M8-M12 Adapter connector Female-Male	M12-M12 Adapter connector Female-Female	M12-M12 Adapter connector 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
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
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
Packaging					
Qty/Bag		1pc/Bag	1pc/Bag	1pc/Bag	1pc/Bag
Other accessories options					
See accessories section					
Notes:					



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	12FD5000-TERM	12MD5000-TERM	B-12FJ5000-TERM	B-12MJ5000-TERM
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
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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)...0.50mm²(20AWG).

Max. screw torque IEC60947-1
(Central fixing screw) :
Max. 0.5 N * m.

Type of terminations :
Solder wires.

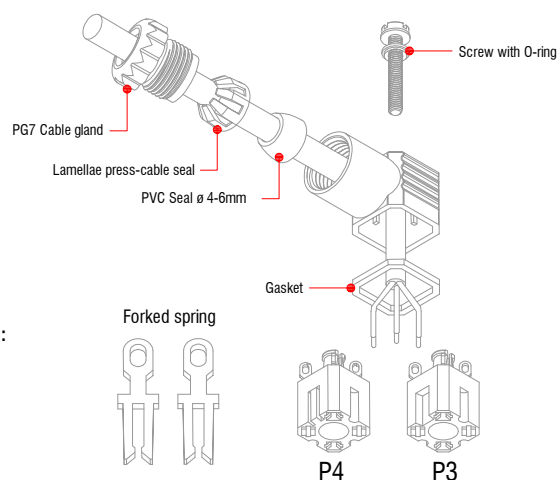
Contact material and treatment :
Brass + tin plated.

Housing material :
PA66 UL94-V2

Internal core material :
PA66 UL94-V2

Operating temperature :
-40°C +90°C

Protection class :
IP 65 (assembled).



SERIES

P3 : INDUSTRIAL CONNECTOR P3 SERIES
P4 : INDUSTRIAL CONNECTOR P4 SERIES
P6 : INDUSTRIAL CONNECTOR P6 SERIES

COLOUR
N : BLACK

CABLE GLAND
Z : PG7 (form C/MICRO INDUSTRIAL)

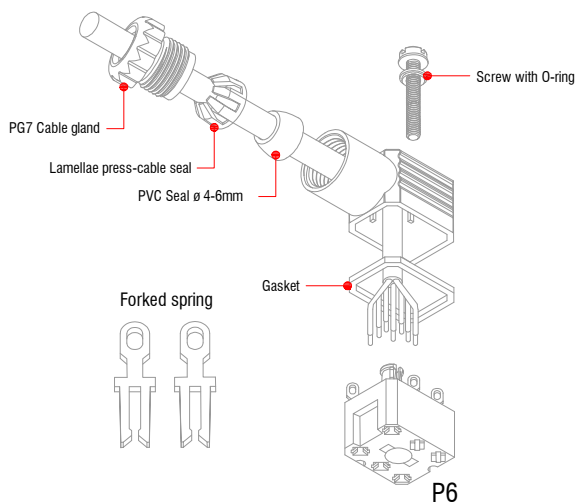
NUMBERS OF POLES
4 : 3POLES + EARTH (P3 CONNECTOR) / 4POLES(P4 CONNECTOR)
6 : 6POLES

CIRCUIT TYPE
00 : WITHOUT ELECTRONIC

VOLTAGE
0 : 50V AC/DC (P3-P6 CONNECTORS)
250V AC / DC (P4 CONNECTORS)

SOME VARIABLES
Y : WITHOUT HTP LOGO
H : HEXAGONAL PRESS CABLE SCREW

P3 N Z 4 00 0 - ##



GENERAL FEATURES BASIS:

SERIES

BP3 : INDUSTRIAL BASE P3 SERIES
BP4 : INDUSTRIAL BASE P4 SERIES
BP6 : INDUSTRIAL BASE P6 SERIES

COLOUR
N : BLACK

CABLE GLAND
Z : PG7 (form C/MICRO INDUSTRIAL)

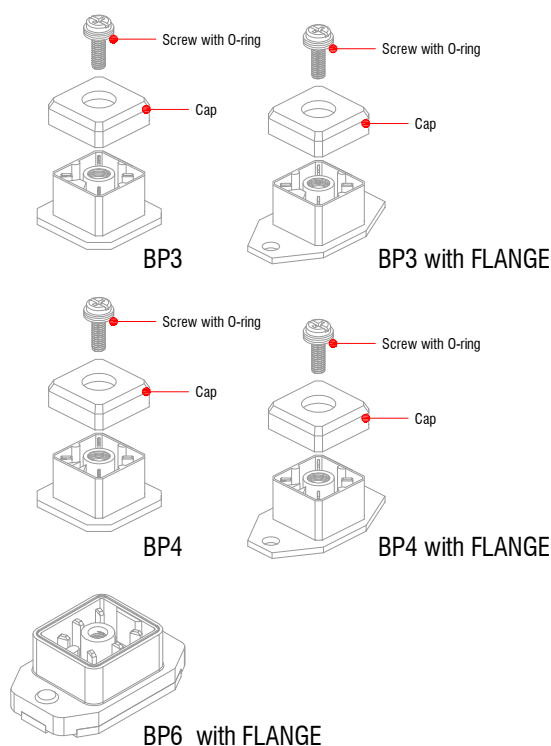
NUMBERS OF POLES
4 : 3POLES + EARTH (BP3 BASES) / 4POLES (BP4 BASES)
6 : 6POLES

CIRCUIT TYPE
00 : WITHOUT ELECTRONIC

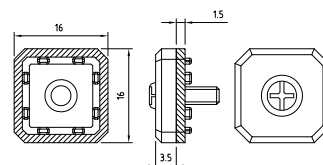
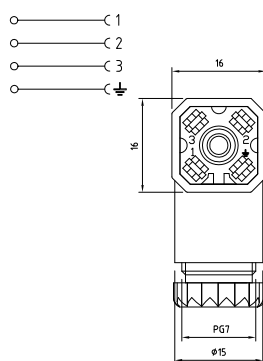
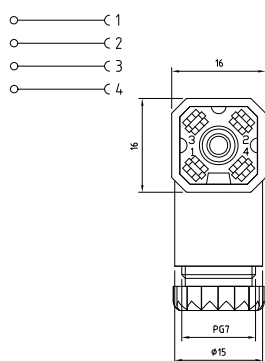
VOLTAGE
0 : 50V AC / DC (BP3-BP6 BASES)
250V AC / DC (BP4 BASES)

SOME VARIABLES
F : BASE WITH FLANGE
ASS : BASE ASSEMBLED WITH CAP (BP3-BP4 series)
FASS : BASE WITH FLANGE ASSEMBLED WITH CAP (BP3-BP4 series)

BP3 N 0 4 00 0 - ##

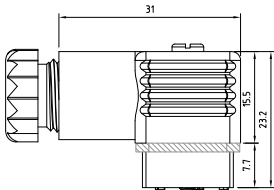
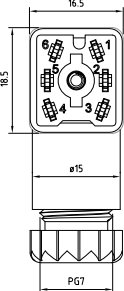


IEC 61984 connectors - Field attachable connectors



Connector type	Industrial connectors	Industrial connectors	Accessories
Conforms to	IEC 61984	IEC 61984	-
Construction type	-	-	-
Part number	P3NZ4000	P4NZ4000	BP3NZ4000-CAP
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
Technical data			
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	
Packaging			
Qty/Box	50pcs / bag	50pcs / bag	50pcs / bag
Other accessories options			
See accessories section			
Notes:			CAP suitable for BP3/BP4 connectors.

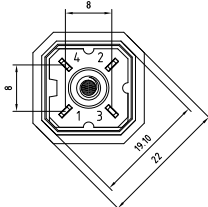

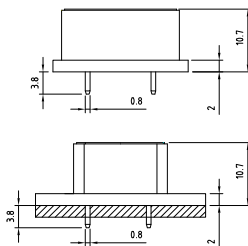
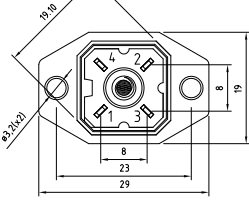

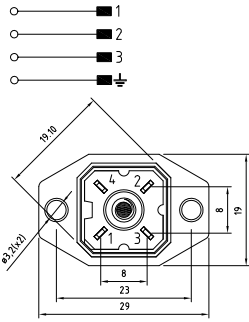
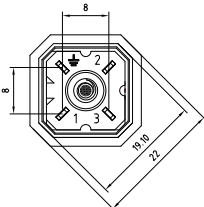

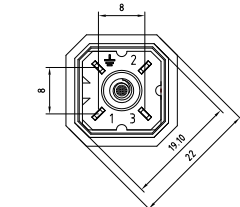
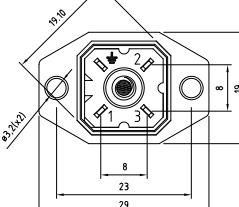

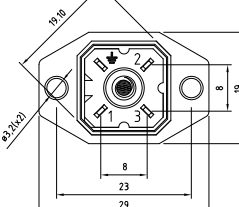


Technical drawing <div>  <div> <div> <div>○</div> <div>○</div> <div>○</div> <div>○</div> <div>○</div> <div>○</div> </div> <div> <div>1</div> <div>2</div> <div>3</div> <div>4</div> <div>5</div> <div>6</div> </div> </div> <div>  </div> </div>			
Product description			
Connector type	Industrial connectors		
Conforms to	IEC 61984		
Construction type	-		
Part number	P6NZ6000		
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:			

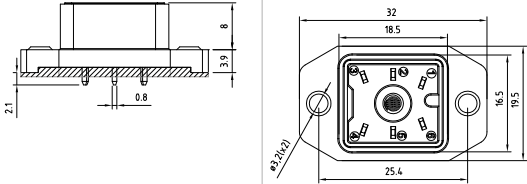
INDUSTRIAL CONNECTORS

IEC 61984 connectors - Field attachable connectors



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<div>Product description</div> <table><tr><td>Connector type</td><td>Industrial base</td><td>Industrial base</td><td>Industrial base</td><td>Industrial base</td></tr><tr><td>Conforms to</td><td>IEC 61984</td><td>IEC 61984</td><td>IEC 61984</td><td>IEC 61984</td></tr><tr><td>Construction type</td><td>-</td><td>-</td><td>-</td><td>-</td></tr><tr><td>Part number</td><td>BP3N04000</td><td>BP3N04000-F</td><td>BP4N04000</td><td>BP4N04000-F</td></tr><tr><td>Description</td><td>Industrial base 16X16mm BP3 series complete with flat gasket.</td><td>Industrial base 16X16mm BP3 series with flange,complete with flat gasket.</td><td>Industrial base 16X16mm BP4 series complete with flat gasket.</td><td>Industrial base 16X16mm BP4 series with flange,complete with flat gasket.</td></tr><tr><td>Number of contacts</td><td>4poles</td><td>4poles</td><td>3poles + P.E.</td><td>3poles + P.E.</td></tr><tr><td>Base colour</td><td>Black</td><td>Black</td><td>Black</td><td>Black</td></tr><tr><td>Gasket type</td><td>-</td><td>Flat NBR gasket</td><td>-</td><td>Flat NBR gasket</td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr></table>					Connector type	Industrial base	Industrial base	Industrial base	Industrial base	Conforms to	IEC 61984	IEC 61984	IEC 61984	IEC 61984	Construction type	-	-	-	-	Part number	BP3N04000	BP3N04000-F	BP4N04000	BP4N04000-F	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															
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Base colour	Black	Black	Black	Black																																																							
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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																																																							
<div>Packaging</div> <table><tr><td>Qty/Box</td><td>400pcs / box</td><td>300pcs / box</td><td>400pcs / box</td><td>300pcs / box</td></tr></table>					Qty/Box	400pcs / box	300pcs / box	400pcs / box	300pcs / box																																																		
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<div>Other accessories options</div> <p>See accessories section</p>																																																											
<div>Notes:</div> <table><tr><td>BP3N04000-ASS: Base assembled with cup.</td><td>BP3N04000-FASS: Base assembled with cup.</td><td>BP4N04000-ASS: Base assembled with cup.</td><td>BP3N04000-FASS: Base assembled with cup.</td></tr></table>					BP3N04000-ASS : Base assembled with cup.	BP3N04000-FASS : Base assembled with cup.	BP4N04000-ASS : Base assembled with cup.	BP3N04000-FASS : Base assembled with cup.																																																			
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<div> <div>Notes:</div> </div>																																																											

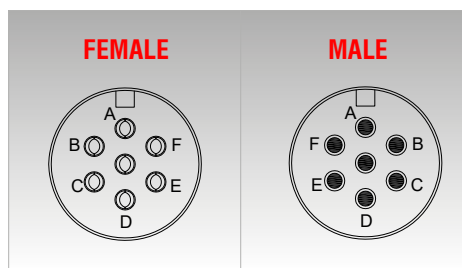
INDUSTRIAL CONNECTORS

EN175000 (interchangeable with MIL-C-5015) -
Field attachable connectors



• 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 : \varnothing cable 6-10mm (field attachable).

Conductor cross section :
0.5mm² (20AWG) ... 1.5mm² (16AWG).

Type of terminations :
Solder wires.

Contact material and treatment :
Brass + gold flash.

Housing material :
PA66 UL94-V2 (field attachable).
Brass + Nickel plated (to panel).

Coupling nut material:
Brass + Nickel plated.

Internal core material :
PA66 UL94-V2.

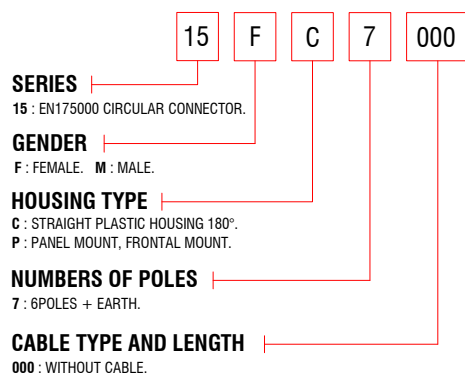
Protection class :
IP65 (assembled).

Operating temperature :
-40°C +90°C.

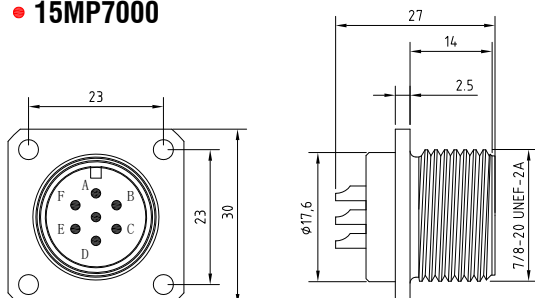
Rated voltage:
~ 60V / ~ 75V.

Rated insulation voltage:
~ 150V.

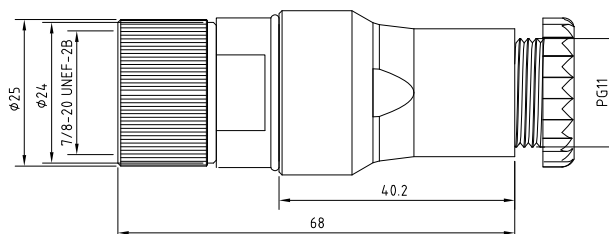
Nominal current :
6A (0.5mm²).
9A (1.5mm²).



• 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
LED-T0250-12MD	Polycarbonate	0.25m	24V DC	3,9 W	550 Lm	6000K Pure White	IP67	-25°C / +60°C	No.2
LED-T0500-12MD	Polycarbonate	0.5m	24V DC	7,7 W	1100 Lm	6000K Pure White	IP67	-25°C / +60°C	No.2
LED-T1000-12MD	Polycarbonate	1m	24V DC	15,4 W	2200 Lm	6000K Pure White	IP67	-25°C / +60°C	No.2
LED-T2000-12MD	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
LED-12FD-T0250-12MD	Polycarbonate	0.25m	24V DC	3,9 W	550 Lm	6000K Pure White	IP67	-25°C / +60°C	No.2
LED-12FD-T0500-12MD	Polycarbonate	0.5m	24V DC	7,7 W	1100 Lm	6000K Pure White	IP67	-25°C / +60°C	No.2
LED-12FD-T1000-12MD	Polycarbonate	1m	24V DC	15,4 W	2200 Lm	6000K Pure White	IP67	-25°C / +60°C	No.2
LED-12FD-T2000-12MD	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
LED-P0250-12MD	Polycarbonate	0.25m	24V DC	3,9 W	450 Lm	4500K Pure White	IP54	-25°C / +60°C	No.2
LED-P0500-12MD	Polycarbonate	0.5m	24V DC	7,7 W	900 Lm	4500K Pure White	IP54	-25°C / +60°C	No.3
LED-P1000-12MD	Polycarbonate	1m	24V DC	15,4 W	1800 Lm	4500K Pure White	IP54	-25°C / +60°C	No.4
LED-P2000-12MD	Polycarbonate	2m	24V DC	30,7 W	3600 Lm	4500K Pure White	IP54	-25°C / +60°C	No.6

INDUSTRIAL LIGHTING

IP67 / IP54 LED LIGHT TUBE



IP 54

Code	Material	Lighting Length	Rated Voltage	Rated Power	Luminous flux	Lighting colour	Protection class IP	Temperature range °C	No. of FIXING CLIPS
LED-12FD-P0250-12MD	Polycarbonate	0.25m	24V DC	3,9 W	450 Lm	4500K Pure White	IP54	-25°C / +60°C	No.2
LED-12FD-P0500-12MD	Polycarbonate	0.5m	24V DC	7,7 W	900 Lm	4500K Pure White	IP54	-25°C / +60°C	No.3
LED-12FD-P1000-12MD	Polycarbonate	1m	24V DC	15,4 W	1800 Lm	4500K Pure White	IP54	-25°C / +60°C	No.4
LED-12FD-P2000-12MD	Polycarbonate	2m	24V DC	30,7 W	3600 Lm	4500K Pure White	IP54	-25°C / +60°C	No.6



IP 67

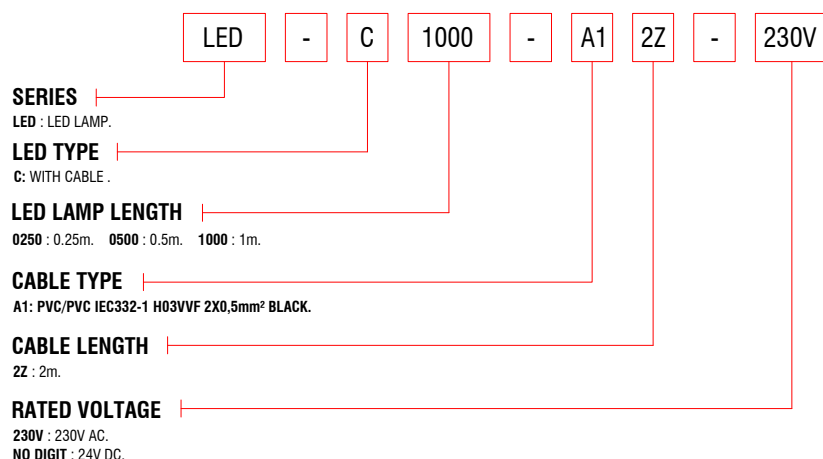
Code	Material	Lighting Length	Rated Voltage	Rated Power	Luminous flux	Lighting colour	Protection class IP	Temperature range °C	No. of FIXING CLIPS
LED-G0250-12MD	Borosilicate Glass	0.25m	24V DC	3,9 W	450 Lm	4500K Pure White	IP67	-25°C / +60°C	No.2
LED-G0500-12MD	Borosilicate Glass	0.5m	24V DC	7,7 W	900 Lm	4500K Pure White	IP67	-25°C / +60°C	No.3
LED-G1000-12MD	Borosilicate Glass	1m	24V DC	15,4 W	1800 Lm	4500K Pure White	IP67	-25°C / +60°C	No.4
LED-G2000-12MD	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
LED-12FD-G0250-12MD	Borosilicate Glass	0.25m	24V DC	3,9 W	450 Lm	4500K Pure White	IP67	-25°C / +60°C	No.2
LED-12FD-G0500-12MD	Borosilicate Glass	0.5m	24V DC	7,7 W	900 Lm	4500K Pure White	IP67	-25°C / +60°C	No.3
LED-12FD-G1000-12MD	Borosilicate Glass	1m	24V DC	15,4 W	1800 Lm	4500K Pure White	IP67	-25°C / +60°C	No.4
LED-12FD-G2000-12MD	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:**



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

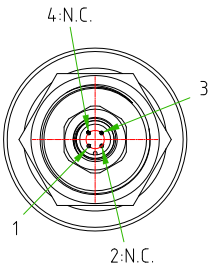
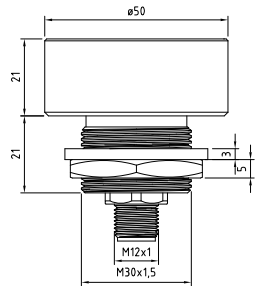
Rated Power:
ø 50mm : 2.5 W
ø 64mm : 4.2 W
- Light colour:**
6000K Cool White.

Lumens(25°C):
ø 50mm : 200Lm
ø 64mm : 330Lm

Life Time:
After 50000 hour light decay less then 30%.

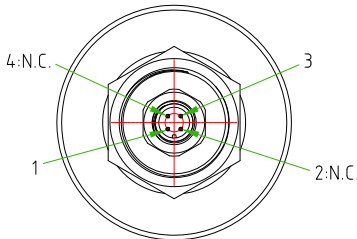
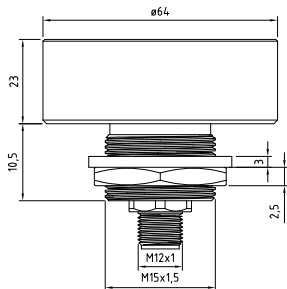
Packaging:
1piece / box.

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

This image shows a full page of blank, lined paper. It features approximately 20 evenly spaced horizontal grey lines across its entire width, providing a guide for handwriting or typing. The paper itself is a clean, off-white color.



**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.

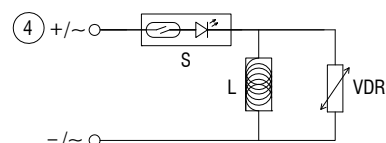
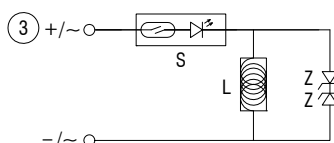
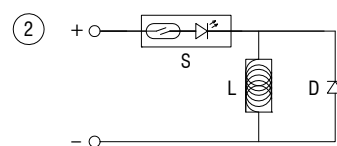
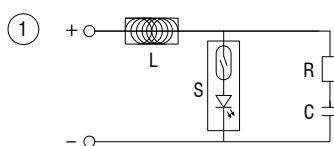
REED SWITCH: an electrical contact is switched by a magnetic field.

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.

SENSORS (MAGNETIC PROXIMITY SWITCHES)

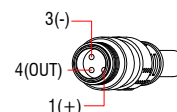
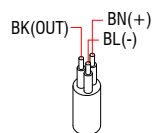
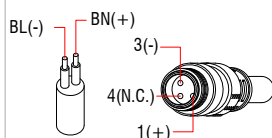
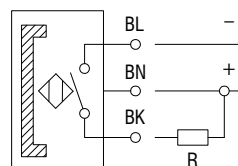
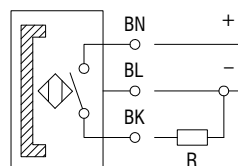
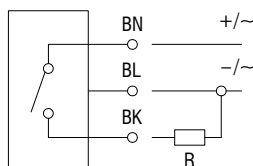
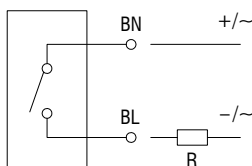
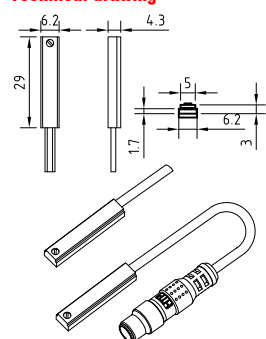
HSA Series



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	HSA1C225-G15	HSA4D225-G15	HSA4N225-G15	HSA4M225-G15
Extension Sensor+M8 conn. 0.3m	HSA2C203-G15	HSA3D203-G15	HSA3N203-G15	HSA3M203-G15
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 ⁷ imp	10 ⁷ imp	10 ⁹ imp	10 ⁹ 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 ²	3x0.14mm ²	3x0.14mm ²	3x0.14mm ²
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:				



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	HSL1C225-G15	HSL4D225-G15	HSL4N225-G15	HSL4M225-G15
Extension Sensor + M8 conn. 0.3m	HSL2C203-G15	HSL3D203-G15	HSL3N203-G15	HSL3M203-G15

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 ⁷ imp	10 ⁷ imp	10 ⁹ imp	10 ⁹ 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 ²	3x0.14mm ²	3x0.14mm ²	3x0.14mm ²
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
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Other accessories options

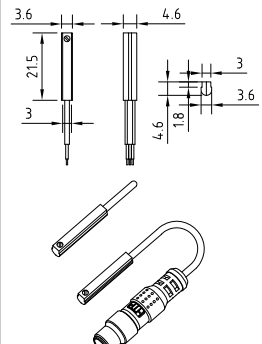
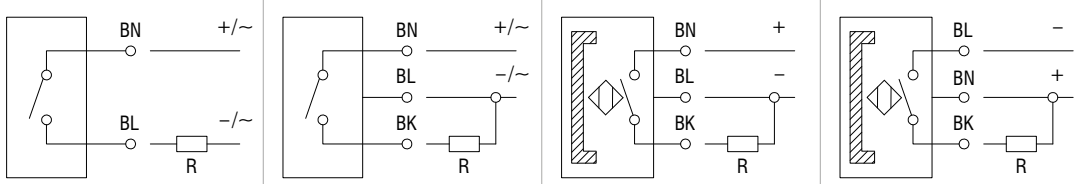
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Notes:

SENSORS (MAGNETIC PROXIMITY SWITCHES)

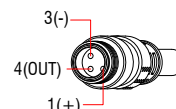
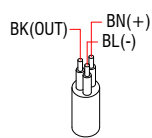
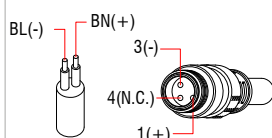
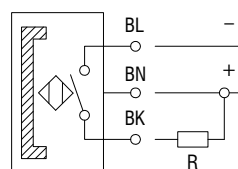
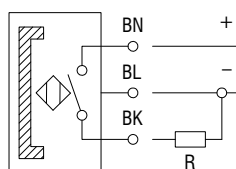
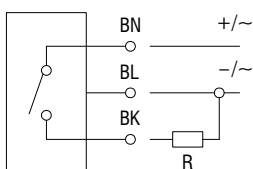
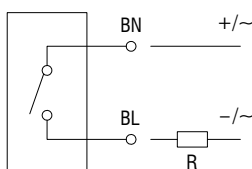
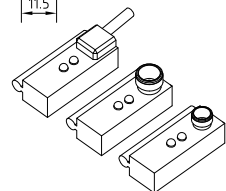
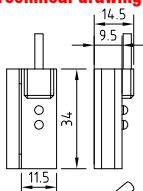
HSS Series



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	HSS1C225-G15	HSS4D225-G15	HSS4N225-G15	HSS4M225-G15
Extension Sensor+M8 conn. 0.3m	HSS2C203-G15	HSS3D203-G15	HSS3N203-G15	HSS3M203-G15
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	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 ⁷ imp	10 ⁷ imp	10 ⁹ imp	10 ⁹ 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 ²	3x0.14mm ²	3x0.14mm ²	3x0.14mm ²
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:				



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	HSM1C525-G15	HSM4D225-G15	HSM4N225-G15	HSM4M225-G15
With M8 plug	HSM2C5-G15	HSM3D2-G15	HSM3N2-G15	HSM3M2-G15
With M12 plug	HSM5C5-G15	HSM6D2-G15	HSM6N2-G15	HSM6M2-G15

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 ⁷ imp	10 ⁷ imp	10 ⁹ imp	10 ⁹ 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 ²	3x0.14mm ²	3x0.14mm ²	3x0.14mm ²
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
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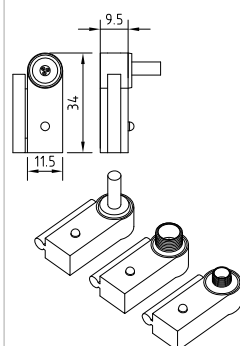
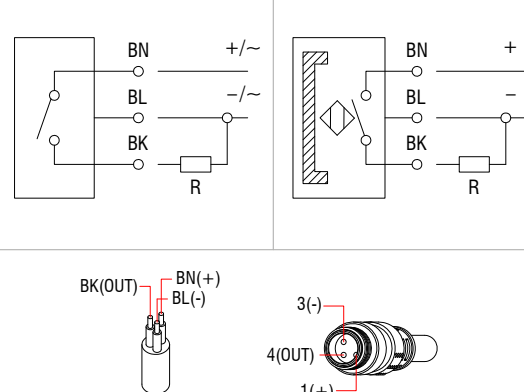
Other accessories options

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Notes:

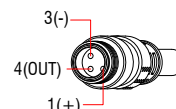
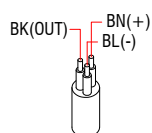
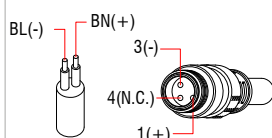
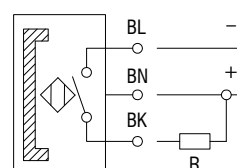
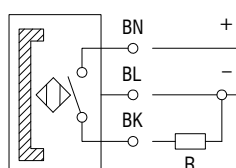
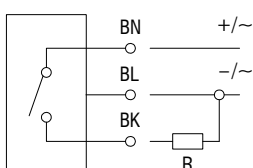
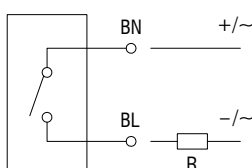
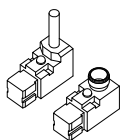
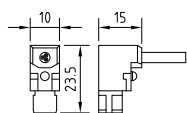
SENSORS (MAGNETIC PROXIMITY SWITCHES)
HSM Series



Technical drawing					
					
Product description					
Sensor type	3 wires REED NORMALLY OPEN	Magneto-resistive PNP NORMALLY OPEN			
Sensor Part Number:					
2.5m moulded cable	HSM7D225-G15	HSM7N225-G15			
With M8 plug	HSM8D2-G15	HSM8N203-G15			
With M12 plug	HSM9D2-G15	HSM9N203-G15			
Technical data					
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 ⁷ imp	10 ⁹ 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	3x0.14mm²	3x0.14mm²			
Conductor colours	Brown(+); Blue(-); Black(OUT)	Brown(+); Blue(-); Black(OUT)			
Cable length	2.5m	2.5m			
Packaging					
Qty/Box					
Other accessories options					
-					
Notes:					



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	HCB1C425-G15	HCB4D225-G15	HCB4N225-G15	HCB4M225-G15
With M8 plug	HCB2C4-G15	HCB3D2-G15	HCB3N2-G15	HCB3M2-G15

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 ⁷ imp	10 ⁷ imp	10 ⁹ imp	10 ⁹ 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 ²	3x0.14mm ²	3x0.14mm ²	3x0.14mm ²
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
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Other accessories options

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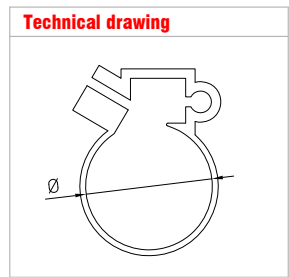
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SENSORS (MAGNETIC PROXIMITY SWITCHES)

Cylinder mounting clamps

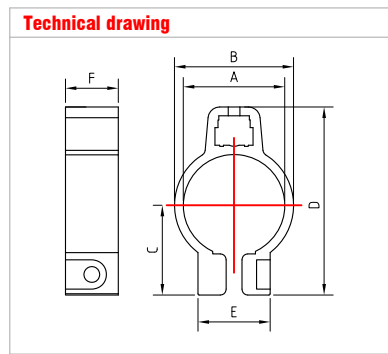
● **CYLINDER MOUNTING CLAMPS:**

● **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																					

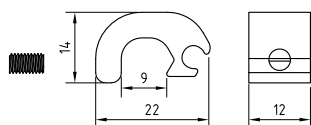
● **HSW-G15:**



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					

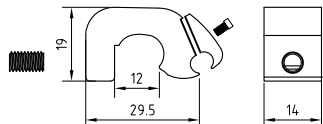
• MOUNTING BRACKETS FOR CYLINDER:

Technical drawing



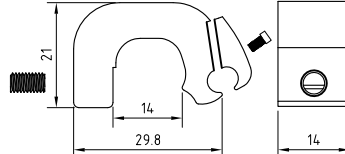
For cylinder	$\varnothing 5 \div 9\text{mm}$
Part Number	HST-10-G15
Body materials	

Technical drawing



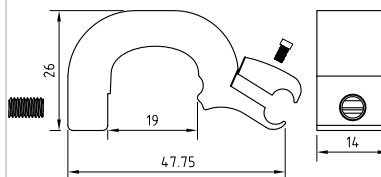
For cylinder	$\varnothing 32 \div 40\text{mm}$
Part Number	HST-80-G15

Technical drawing



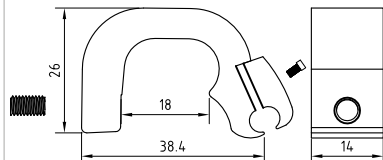
For cylinder	$\varnothing 50 \div 63\text{mm}$
Part Number	HST-81-G15

Technical drawing



For cylinder	$\varnothing 82 \div 100\text{mm}$
Part Number	HST-82-G15

Technical drawing

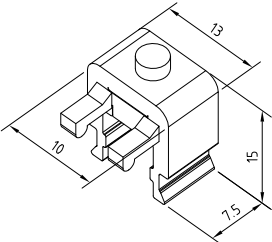
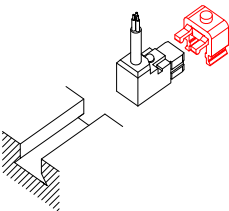


For cylinder	$\varnothing 125\text{mm}$
Part Number	HST-83-G15

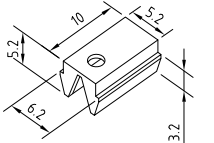
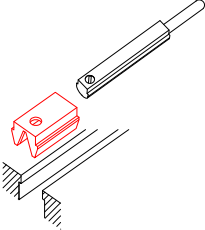
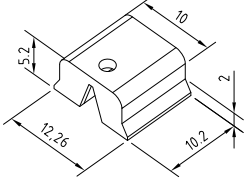
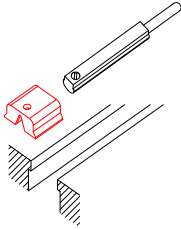
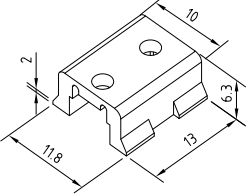
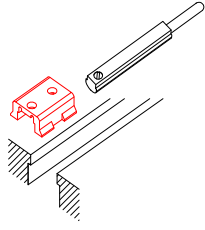
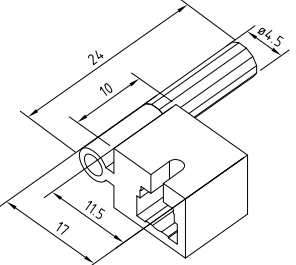
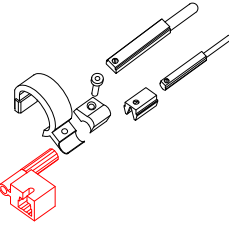
SENSORS (MAGNETIC PROXIMITY SWITCHES)

Slot adapters

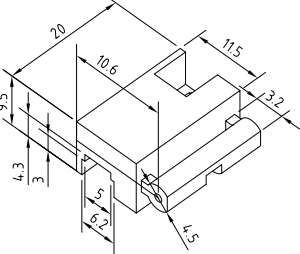
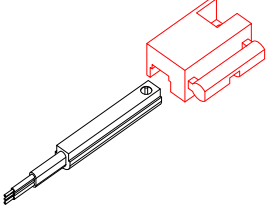
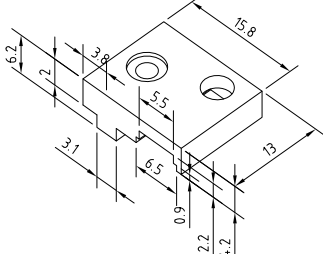
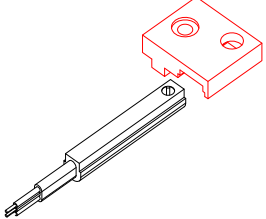
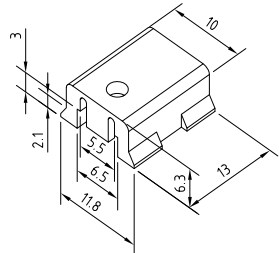
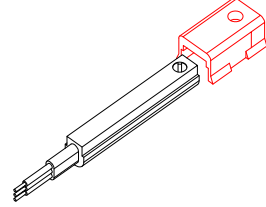
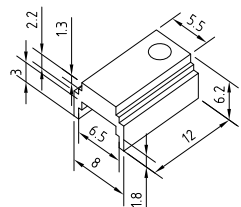
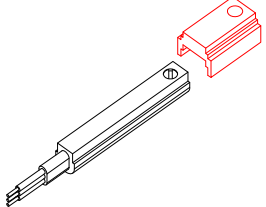
• **HK-CB-G15**

Technical drawing	Slot adapters material	Application	Packaging	Suitable sensors
	PA / 6005 A / AISI 303		1PC/bag	HCB

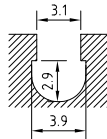
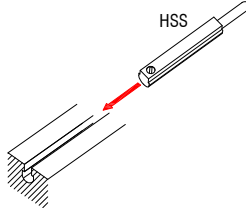
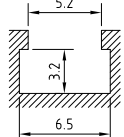
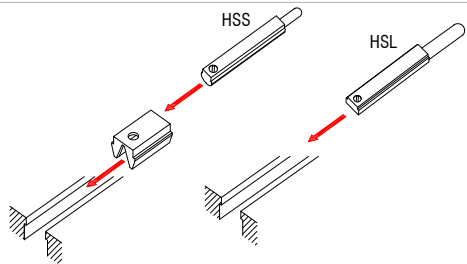
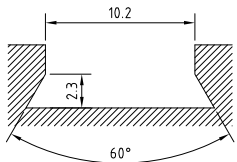
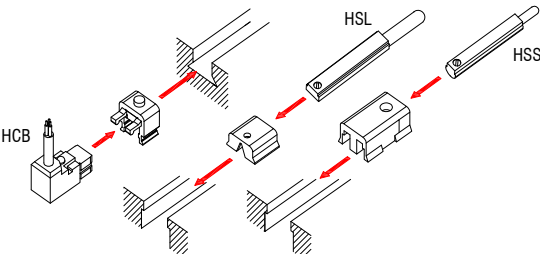
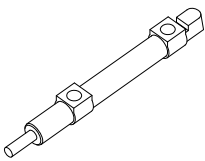
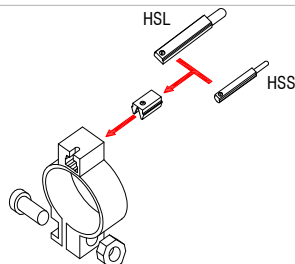
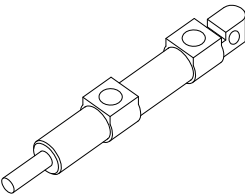
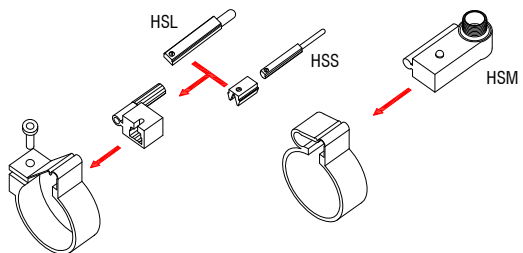
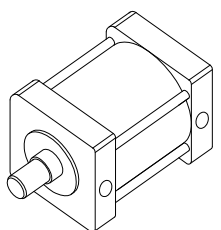
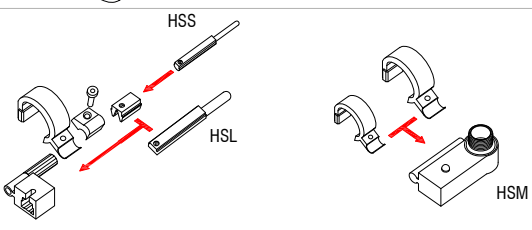
• **HK-SENS-G15**

Technical drawing	Slot adapters material	Application	Packaging	Suitable sensors
	PA		1PC/bag	HSN HSS
	PA		1PC/bag	HSN HSS
	PA		1PC/bag	HSC HSL HSN HSS
	PA		1PC/bag	HSC HSL HSN HSS

• HK-SL-G15

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

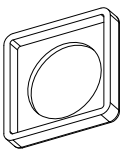
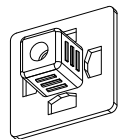
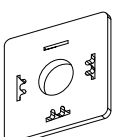
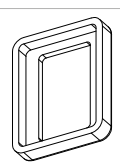
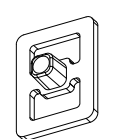
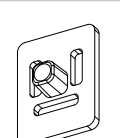
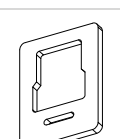
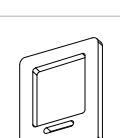
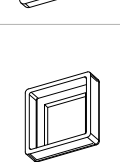
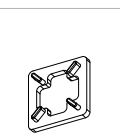
SENSORS (MAGNETIC PROXIMITY SWITCHES)

Slots type	Sensors type					Applications type
	HSS	HSL	HSA	HSM	HCB	
C slot		HSS	-	-	-	
T slot		HSS + HK-SENS	HSL	HSA	-	
Dovetail slot		HSS + HK-SENS	HSL + HK-SENS	HSA + HK-SENS	-	
SW mounting clamps		HSS + HK-SENS + HSW	HSL + HK-SENS + HSW	HSA + HK-SENS + HSW	-	
XF mounting clamps		HSS + HK-SENS + HXF	HSL + HK-SENS + HXF	HSA + HK-SENS + HXF	HSM + HXF	
ST mounting brackets		HSS + HK-SENS + HST	HSL + HK-SENS + HST	HSA + HK-SENS + HST	HSM + HST	

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
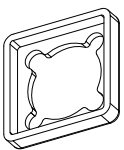
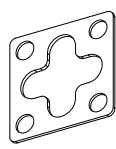
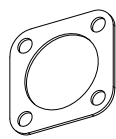
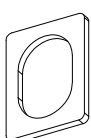
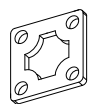
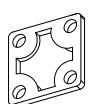












ACCESSORIES

Technical drawing	Gasket type	Part number	Gasket material	Rated temperature range	Colour	Packaging	Suitable connectors
	Profiled	100013000	NBR	From -40°C to 90°C	Black	50pcs/bag	G1 G1C CG1 CGB
		10001400F	Silicone	From -40°C to 125°C	White		
	Integrated	10001400I	NBR	From -40°C to 90°C	Black	50pcs/bag	G1 G1C CG1 CGB
		10001400M	Silicone	From -40°C to 125°C	White		
	Flat	10001400A	NBR	From -40°C to 90°C	Black	50pcs/bag	G1 G1C CG1 CGB G4 TIMER-DIG
		10001400G	Silicone	From -40°C to 125°C	White		
	Profiled	300013000	NBR	From -40°C to 90°C	Black	50pcs/bag	M1 CM1 M2 CM2
		30001400H	Silicone	From -40°C to 125°C	White		
	Integrated	30001400I	NBR	From -40°C to 90°C	Black	50pcs/bag	CM1
		30001400J	Silicone	From -40°C to 125°C	White		
	Integrated	30001400M	NBR	From -40°C to 90°C	Black	50pcs/bag	CM2
		30001400K	Silicone	From -40°C to 125°C	White		
	Flat	30001400A	NBR	From -40°C to 90°C	Black	50pcs/bag	M1 CM1
		30001400G	Silicone	From -40°C to 125°C	White		
	Flat	30001400N	NBR	From -40°C to 90°C	Black	50pcs/bag	M2 CM2
		30001400P	Silicone	From -40°C to 125°C	White		
	Profiled	500013000	NBR	From -40°C to 90°C	Black	100pcs/bag	P1 CP1 P2 CP2
		50001400F	Silicone	From -40°C to 125°C	White		
	Integrated	50001400I	NBR	From -40°C to 90°C	Black	100pcs/bag	CP1 CP2
		50001400M	Silicone	From -40°C to 125°C	White		

ACCESSORIES









Valve connector gaskets

Technical drawing	Gasket type	Part number	Gasket material	Rated temperature range	Colour	Packaging	Suitable connectors
	Flat	50001400A	NBR	From -40°C to 90°C	Black	100pcs/bag	P1 CP1 P2 CP2
		50001400G	Silicone	From -40°C to 125°C	White		
	Profiled	100013000A	NBR	From -40°C to 90°C	Black	50pcs/bag	BG5
		100013000D	Silicone	From -40°C to 125°C	White		
	Flat	10001400J	NBR	From -40°C to 90°C	Black	100pcs/bag	BG0 BG1 BG2 BG5 BG8 BG10 BG16 BG33 BG42
		10001400K	Silicone	From -40°C to 125°C	White		
	Flat	10001400H	NBR	From -40°C to 90°C	Black	100pcs/bag	BG0 BG4
		10001400N	Silicone	From -40°C to 125°C	White		
	Flat	30001400E	NBR	From -40°C to 90°C	Black	140pcs/bag	BM1
		30001400F	Silicone	From -40°C to 125°C	White		
	Flat	50001400J	NBR	From -40°C to 90°C	Black	100pcs/bag	BP1
		50001400K	Silicone	From -40°C to 125°C	White		
	Flat	50001400E	NBR	From -40°C to 90°C	Black	100pcs/bag	BP2
		50001400H	Silicone	From -40°C to 125°C	White		

Technical drawing	Thread type	Length	Part number	Screw material	Packaging	Suitable connectors
	M3x0.5	42mm	10001500F	Iron + Zinc plated	50pcs/bag	G4
			10001500F-SS	Iron AISI 304		
	M3x0.5	35mm	10001500R	Iron + Zinc plated	50pcs/bag	CG5
			10001500R-SS	Iron AISI 304		
	M3x0.5	35.4mm	10001500V	Iron + Zinc plated	50pcs/bag	G1C
			10001500V-SS	Iron AISI 304		
	M3x0.5	32.5mm	100015000	Iron + Zinc plated	50pcs/bag	G1 M1 M2
			100015000-SS	Iron AISI 304		
	M2.5x0.5	28mm	50001500A	Iron + Zinc plated	100pcs/bag	P1
			50001500A-SS	Iron AISI 304		
	M3x0.5	28mm	70001500B	Iron + Zinc plated	100pcs/bag	P2
			70001500B-SS	Iron AISI 304		
	M3x0.5	26mm	70001500C	Iron + Zinc plated	50pcs/bag	CM1B
			70001500C-SS	Iron AISI 304		
	M3x0.5	25mm	10001500P	Iron + Zinc plated	50pcs/bag	CG1 G1 Adaptor CM1 M1 Adaptor CM2
			10001500P-SS	Iron AISI 304		
	M3x0.5	22.5mm	70001500P	Iron + Zinc plated	50pcs/bag	CGB CP2 P2 Adaptor
			70001500P-SS	Iron AISI 304		
	M2.5x0.5	22.5mm	50001500P	Iron + Zinc plated	50pcs/bag	CP1 P1 Adaptor
			50001500P-SS	Iron AISI 304		

ACCESSORIES

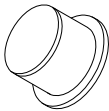

Valve connector screws

Technical drawing	Thread type	Length	Part number	Screw material	Packaging	Suitable connectors
	ext.: M4x0.5 int.: M3x0.5	15.5mm	30020500	Iron + Zinc plated	120pcs/bag	BG8 BG10 BG16 BM1
			30020500-SS	Iron AISI 304		
	ext.: M4x0.5 int.: M3x0.5	14mm	30020500A	Iron + Zinc plated	120pcs/bag	BG33 BG42
			30020500A-SS	Iron AISI 304		
	M3x0.5	10mm	100210001	Iron + Zinc plated	200pcs/bag	BG1 BG5
			100210001-SS	Iron AISI 304		
	M3x0.5	8mm	700210001	Iron + Zinc plated	100pcs/bag	BP2
			700210001-SS	Iron AISI 304		
	M2.5x0.5	8mm	500210001	Iron + Zinc plated	100pcs/bag	BP1
			500210001-SS	Iron AISI 304		
	M3x0.5	7.3mm	100210003	Iron + Zinc plated	100pcs/bag	BG0 BG4
			100210003-SS	Iron AISI 304		
	M3x0.5	5mm	300210004*	Iron + Zinc plated	120pcs/bag	BM1
			300210004-SS*	Iron AISI 304		
	M3x0.5	4.8mm	100210002*	Iron + Zinc plated	100pcs/bag	BG1 BG5 BG8 BG10 BG16 BG33 BG42
			100210002-SS*	Iron AISI 304		

* Screws for P.E.(EARTH) pins.


NOTES:

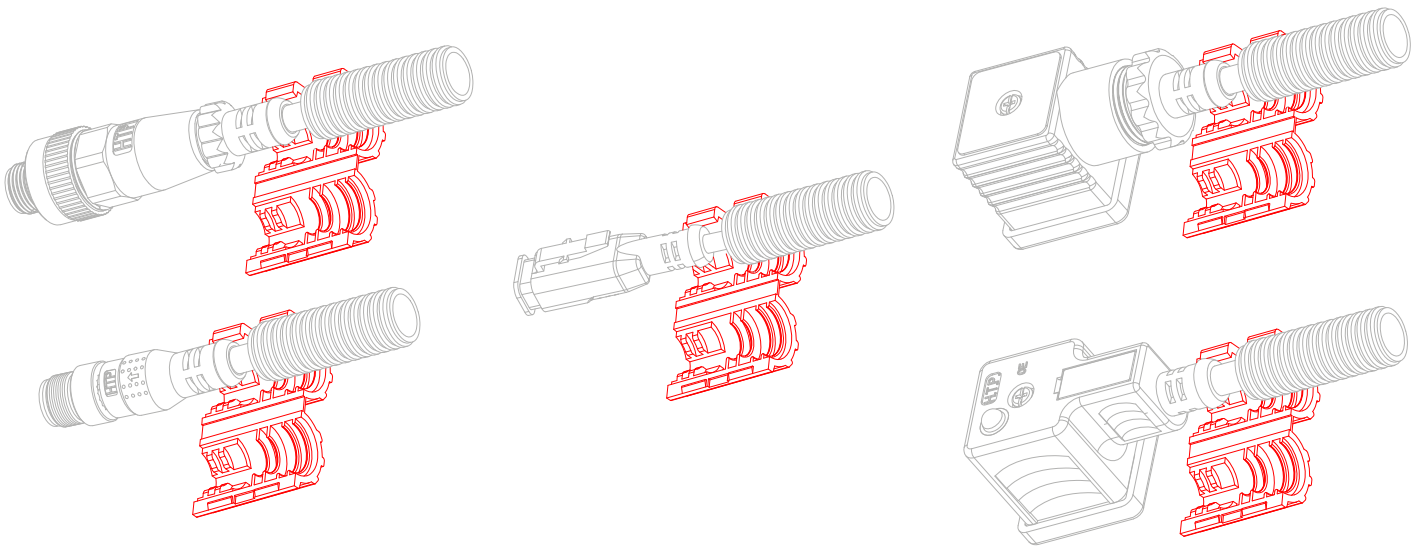
- All screws for DIN connectors are provided with different O-rings depending on the products where they are used.
- All O-rings are made in NBR - In case of other O-rings material is requested please contact us to verify the feasibility.
- All Gaskets can't be sold alone, they must be ordered with the connectors or bases corresponding.
- All Screws can't be sold alone, they must be ordered with the connectors or bases corresponding.

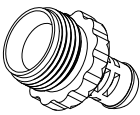
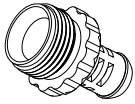

Technical drawing	Cap type	Part number	Gasket materials	Colour	Packaging	Suitable connectors
	Male suitable for Female connector	CAPS-12-M-P	PA66	Black	50pcs/bag	M12 Female connectors M12 boxes
	Female SNAP-IN suitable for Male connector	CAPS-12-F-P	PA66	Transparent	50pcs/bag	M12 Male connectors
	Male suitable for Female connector	CAPS-12-M-M	Brass + Nickel plated	Metal	50pcs/bag	M12 Female connectors M12 boxes
	Female suitable for Male connector	CAPS-12-F-M	Brass + Nickel plated	Metal	50pcs/bag	M12 Male connectors
	Male suitable for Female connector	CAPS-08-M-P	PA66	Black	50pcs/bag	M8 Female connectors M8 boxes
	Female SNAP-IN suitable for Male connector	CAPS-08-F-P	PA66	Transparent	50pcs/bag	M8 Male connectors
	Male suitable for Female connector	CAPS-08-M-M	Brass + Nickel plated	Metal	50pcs/bag	M8 Female connectors M8 boxes
	Female suitable for Male connector	CAPS-08-F-M	Brass + Nickel plated	Metal	50pcs/bag	M8 Male connectors
	Female	CAPS BG	PE	White	50pcs/bag	BG bases

ACCESSORIES



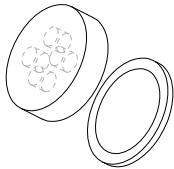
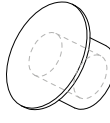
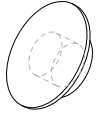
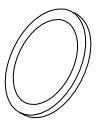
Clip and adapters for corrugated conduit


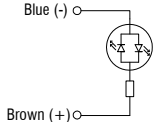

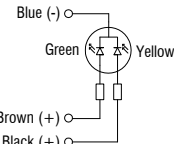
Technical drawing	Int. conduits diameter	Ext. conduits diameter	Part number	Conduits clip material	Packaging	Suitable connectors
	ø6.2mm and ø9.6mm	ø10mm and ø13mm	ACC1	PA66	50pcs/bag	Din connectors Field attachable* Din connectors with moulded cable Circular M12 connectors Field attachable* Circular M12 connectors with moulded cable 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	ACSC-PG11	6.5-7mm	PA66	Black	50pcs/bag	G1 G1C G4 12ML 12FL 12MU 12FU
	PG9	29mm	ACSC-PG9	4-7mm	PA66	Black	50pcs/bag	M1 M2
	PG7	29mm	ACSC-PG7	3.5-6mm	PA66	Black	50pcs/bag	P1 P2 12FC 12MC 12FB 12MB 12FZ 12MZ 12FT 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	1001000C	PVC	Black	50pcs/bag	PG11	G1 G1C G4 12ML 12FL 12MU 12FU
	Round seal with 2 open holes ø2mm	10010000C-2H	PVC PA66	Black	50pcs/bag	PG11	G1 G1C G4 12ML 12FL 12MU 12FU
	Round seal with 4 closed holes+plastic washer easy to break with conductors	10010000F	NBR	Black	50pcs/bag	PG11	G1 G1C G4 12ML 12FL 12MU 12FU
	Seal reduction with 1 closed holes easy to break with conductors	10010000A-SI	PVC	Black	50pcs/bag	PG11	G1 G1C G4 12ML 12FL 12MU 12FU
	Seal reduction with 1 closed holes easy to break with conductors	10010000D	PVC	Black	50pcs/bag	PG7	P1 P2 P3
	Metal Washer	10010000E	Iron	-	50pcs/bag	PG11	G1 G1C G4 12ML 12FL 12MU 12FU

Technical drawing	Technical scheme	Product type	Part number	LED Colour	Packaging	Suitable poles numbers	Suitable connectors
		Bipolar led + resistance with n°2 wires	ELBO 01	Red	50pcs/bag	2 poles connected	G1 G1C M1 12FT M2 12MT 12MZ 12FZ
		Bicolour led + resistances	ELBO 02	n°1 Yellow n°2 Green	50pcs/bag	3 poles connected	G1 G1C 12MZ 12FZ 12MT 12FT















CABLES LIST

Code	Material	Type of cable	Colour	Section	No.core	Cable ø mm ±0.3	Temperature range °C	Form A 	Form A - B	Form C
01	PVC/PVC	IEC332-1 H03VVF	Black	0.50mm ²	3	ø5mm	-20°C / +80°C		●	●
A1	PVC/PVC	IEC332-1 H03VVF	Black	0.50mm ²	2	ø5mm	-20°C / +80°C		●	●
B1	PVC/PVC	IEC332-1 H03VVF	Black	0.50mm ²	4	ø6mm	-20°C / +80°C		●	●
02	PVC/PVC	IEC332-1 H05VVF	Black	0.75mm ²	3	ø6.7mm	-20°C / +80°C		●	
A2	PVC/PVC	IEC332-1 H05VVF	Black	0.75mm ²	2	ø6mm	-20°C / +80°C		●	
B2	PVC/PVC	IEC332-1 H05VVF	Black	0.75mm ²	4	ø7mm	-20°C / +80°C		●	
C2	PVC/PVC	IEC332-1 H05VVF	Black	0.75mm ²	5	ø8.3mm	-20°C / +80°C		●	
03	PVC/PVC	CEI2022 II F.R.O.R.	Grey RAL7032	0.75mm ²	3	ø5.5mm	-20°C / +80°C		●	
A3	PVC/PVC	CEI2022 II F.R.O.R.	Grey RAL7032	0.75mm ²	2	ø6mm	-20°C / +80°C		●	
04	PVC/PVC	CEI2022 II F.R.O.R.	Grey RAL7032	0.50mm ²	3	ø5mm	-20°C / +80°C		●	●
A4	PVC/PVC	CEI2022 II F.R.O.R.	Grey RAL7032	0.50mm ²	2	ø5mm	-20°C / +80°C		●	●
B4	PVC/PVC	CEI2022 II F.R.O.R.	Grey RAL7032	0.50mm ²	4	ø6mm	-20°C / +80°C		●	●
05	PVC/PVC	CEI2022 II F.R.O.R.	Grey RAL7032	0.75mm ²	4	ø7mm	-20°C / +80°C		●	
C5	PVC/PVC	CEI2022 II F.R.O.R.	Grey RAL7032	0.75mm ²	5	ø8.3mm	-20°C / +80°C		●	
06	PVC/PVC	CEI2022 II F.R.O.R.	Grey RAL7032	1mm ²	3	ø6.7mm	-20°C / +80°C		●	
A6*	PVC/PVC	CEI2022 II F.R.O.R.	Grey RAL7032	1mm ²	2	ø6.5mm	-20°C / +80°C		●	
B6*	PVC/PVC	CEI2022 II F.R.O.R.	Grey RAL7032	1mm ²	4	ø7.2mm	-20°C / +80°C		●	
07*	PVC/PVC	CEI2022 II F.R.O.R. SHIELDED	Grey RAL7032	1mm ²	3	ø7.2mm	-20°C / +80°C		●	
A7*	PVC/PVC	CEI2022 II F.R.O.R. SHIELDED	Grey RAL7032	1mm ²	2	ø6.7mm	-20°C / +80°C		●	
B7*	PVC/PVC	CEI2022 II F.R.O.R. SHIELDED	Grey RAL7032	1mm ²	4	ø8.3mm	-20°C / +80°C		●	
08*	PUR/PVC		Black	0.50mm ²	3	ø5mm	-40°C / +80°C		●	●
A8*	PUR/PVC		Black	0.50mm ²	2	ø5mm	-40°C / +80°C		●	●
B8*	PUR/PVC		Black	0.50mm ²	4	ø6mm	-40°C / +80°C		●	●
C8*	PUR/PVC		Black	0.50mm ²	5	ø6.5mm	-40°C / +80°C		●	
09*	PUR/PVC		Black	0.75mm ²	3	ø6mm	-40°C / +80°C		●	
A9	PUR/PVC		Black	0.75mm ²	2	ø5.2mm	-40°C / +80°C		●	
B9*	PUR/PVC		Black	0.75mm ²	4	ø7.2mm	-40°C / +80°C		●	
10*	PUR/PUR	Li-YY11Y	Black	0.50mm ²	3	ø5mm	-40°C / +80°C		●	●
AA*	PUR/PUR	Li-YY11Y	Black	0.50mm ²	2	ø5mm	-40°C / +80°C		●	●
AB*	PUR/PUR	Li-YY11Y	Black	0.50mm ²	4	ø6.7mm	-40°C / +80°C		●	●
11*	PUR/PUR	Li-YY11Y	Black	0.75mm ²	3	ø6mm	-40°C / +80°C		●	
BA*	PUR/PUR	Li-YY11Y	Black	0.75mm ²	2	ø6.5mm	-40°C / +80°C		●	
BB*	PUR/PUR	Li-YY11Y	Black	0.75mm ²	4	ø7mm	-40°C / +80°C		●	
13*	PVC/PVC	IEC332-1 H05VVF	Black	1mm ²	2	ø6mm	-20°C / +80°C		●	
14*	PVC/PVC	CEI2022 II F.R.O.R.	Black	1mm ²	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.

CABLES LIST

Code	Material	Type of cable	Colour	Section	No.core	Cable ø mm ±0.3	Temperature range °C	M8	M12	M9	M8 cULus	M12 cULus
K	PVC/PVC	CEI2022	Black	0.14mm ²	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		●			
A	PVC/PVC	CEI2022	Black	0.25mm ²	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		●			
S	PVC/PVC	ULstyle21179	Black	AWG24 (0.25mm ²)	8	ø 6mm	-20°C / +80°C		●			
					2 *	n.a.	-20°C / +105°C	●	●			
					3	n.a.	-20°C / +105°C	●	●		●	●
					4	ø 4.3mm	-20°C / +105°C	●	●		●	●
B	PVC/PVC	CEI2022	Black	0.34mm ²	5	ø 5mm	-20°C / +105°C	●	●			
					8	n.a.	-20°C / +105°C	●	●			
					2 *	ø 4.8mm	-20°C / +80°C	●	●			
					3 *	ø 4.8mm	-20°C / +80°C	●	●			
I	PVC/PVC	ULstyle 21179	Black	AWG 22 (0.34mm ²)	4	ø 5.2mm	-20°C / +80°C	●	●			
					5 *	ø 5.5mm	-20°C / +80°C		●			
					8	ø 6.5mm	-20°C / +80°C		●			
					2 *	n.a.	-20°C / +105°C	●	●			
N	PVC/PVC	CEI2022	Grey RAL7032	0.25mm ²	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		●			●
L	PVC/PVC	CEI2022	Grey RAL7032	0.34mm ²	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		●			
H	PUR/PUR	CEI2022	Black	0.14mm ²	8 *	ø 6mm	-20°C / +80°C		●			
					2 *	ø 4.8mm	-20°C / +80°C	●	●			
					3	ø 4.8mm	-20°C / +80°C	●	●			
					4	ø 5.2mm	-20°C / +80°C	●	●			
H	PUR/PUR	CEI2022	Black	0.14mm ²	5	ø 5.5mm	-20°C / +80°C		●			
					8 *	ø 6.5mm	-20°C / +80°C		●			
					3 *	ø2.6mm	-40°C / +80°C	●	●			
					6	ø4.9mm	-40°C / +80°C	●				
H	PUR/PUR	CEI2022	Black	0.14mm ²	8	ø4.9mm	-40°C / +80°C	●				
					12 *	ø6mm	-40°C / +80°C		●			





Code	Material	Type of cable	Colour	Section	No.core	Cable ø mm ±0.3	Temperature range °C	M8	M12	M9	M8 	M12 
C	PUR/PUR		Black	0.25mm ²	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		●			
C-K6-IS	PUR/TPO	 ULstyle 21576 	Black	24AWG (0.25mm ²)	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		●			●
D	PUR/PUR		Black	0.34mm ²	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		●			
D-K6-IS	PUR/TPO	 ULstyle 21576 	Black	AWG 22 (0.34mm ²)	3	ø4.6mm	-40°C / +80°C	●	●		●	
					4	ø4.8mm	-40°C / +80°C	●	●		●	●
					5	ø5.3mm	-40°C / +80°C		●			●
J	PVC/PVC	CEI2022 SHIELDED		0.25mm ²	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		●			
P	PVC/PVC	 ULstyle 21576 SHIELDED 	Black	AWG 24 (0.25mm ²)	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		●			●
F	PVC/PVC	CEI2022 SHIELDED		0.34mm ²	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		●			
3	PVC/PVC	 ULstyle 21576 SHIELDED 	Black	AWG 22 (0.34mm ²)	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		●			

CABLES LIST

Code	Material	Type of cable	Colour	Section	No.core	Cable ø mm ±0.3	Temperature range °C	M8	M12	M9	M8 	M12 
Q	PVC/PVC	CEI2022 SHIELDED 	Grey RAL7032	0.25mm ²	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	0.34mm ²	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	0.25mm ²	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 (0.25mm ²)	8	ø7mm	-40°C / +80°C		●			●
G	PUR/PUR	SHIELDED 	Black	0.34mm ²	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 (0.34mm ²)	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 mm ±0.3	Temperature range °C	M8	M12	M9	M8 	M12 
T-4-K6-IS	PUR / Polyolefin	 ULstyle 444 SHIELDED 	Violet RAL4001 Desina	AWG 24 (0.25mm ²)	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 mm ±0.3	Temperature range °C	M8	M12	M9	M8 	M12 
21-4	PVC / Polyolefin	 ULstyle 2464 SHIELDED DEVICENET 	Violet RAL4001 Desina	AWG 24 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 mm ±0.3	Temperature range °C	M8	M12	M9	M8 	M12 
40-4-K6	PUR/ Polyolefin	 ULstyle 21576 SHIELDED PROFINET		Green RAL6018	AWG 22 (0.34mm ²)	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 mm ±0.3	Temperature range °C	M8	M12	M9	M8 	M12 
71-8-K6	PUR / Polyolefin	 ULstyle 20236 SHIELDED ETHERNET CAT.5E		Green RAL6016	AWG 26 (0.14mm ²)	4 x 2	ø7.2mm	-30°C / +70°C		●		



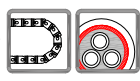



1x4xAWG22  AWM style 21576 - AWM I/II A/B 80°C 1000V 0 FT-2 EM

ETHERNET

Code	Material	Type of cable	Colour	Section	No.core	Cable ø mm ±0.3	Temperature range °C	M8	M12	M9	M8 	M12 
66-4-K6	PUR/ Polyolefin	 ULstyle 21576 SHIELDED ETHERNET		Green RAL6016	AWG 24 (0.25mm ²)	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 mm ±0.3	Temperature range °C	M12 K-code	M12 L-code	M12 S-code	M12 S-code 
81-4-K6	PUR / Polyolefin	 ULstyle 20234 SHIELDED		Orange RAL2003 Desina	AWG 16 (1.5mm ²)	4 *	ø8.6mm	-30°C / +80°C	●		●
46	PVC/PVC	CEI2022	Black	1.50mm ²	4 *	ø10mm	-20°C / +80°C	●		●	
					5 *	ø10mm	-20°C / +80°C	●		●	
70-5	PVC/PVC	CEI2022	Black	1.50mm ²	5 *	ø10.40mm	-20°C / +80°C		●		
35	PVC/PVC	CEI2022		Black	1.50mm ²	4 *	ø10mm	-20°C / +80°C	●		●
					5 *	ø10.40mm	-20°C / +80°C	●		●	
73-5	PVC/PVC	CEI2022		Black	1.50mm ²	5 *	ø10.40mm	-20°C / +80°C		●	
53	PUR/PUR		Black	1.50mm ²	4 *	ø10mm	-40°C / +80°C	●		●	
					5 *	ø10mm	-40°C / +80°C	●		●	
54	PUR/PUR	SHIELDED		Black	1.50mm ²	4 *	ø10mm	-40°C / +80°C	●		●
					5 *	ø10.40mm	-40°C / +80°C	●		●	

CABLES LIST

• CABLE OF M8 DISTRIBUTION BOXES :

Code	Material	Type of cable	Colour	Section	No.core	Cable \varnothing mm ± 0.3	Temperature range °C	BOX SINGLE SIGNAL				
								4 POS.	6 POS.	8 POS.	10 POS.	12 POS.
V-2+8	PVC /PVC	CEI2022II O.R.	Black	2x0.50mm ² 8x0.25mm ²	2+8	ø9mm	-20°C / +80°C	●	●	●		
V-2+12	PVC /PVC	CEI2022II O.R.	Black	2x0.50mm ² 12x0.25mm ²	2+12	ø10mm	-20°C / +80°C				●	●
D-2+6-K6	PUR /PUR	 ULstyle 21576 	Black	2x20AWG 6x22AWG	2+6	ø7,50mm	-40°C / +80°C	●	●			
D-2+10-K6	PUR /PUR	 ULstyle 21576 	Black	2x20AWG 10x22AWG	2+10	ø8,50mm	-40°C / +80°C			●	●	
P-2+8	PUR /PUR		Black	2x0.50mm ² 8x0.25mm ²	2+8	ø9mm	-40°C / +80°C	●	●	●		
P-2+12	PUR /PUR		Black	2x0.50mm ² 12x0.25mm ²	2+12	ø10mm	-40°C / +80°C				●	●

• CABLE OF M12 DISTRIBUTION BOXES :

Code	Material	Type of cable	Colour	Section	No.core	Cable \varnothing mm ± 0.3	Temperature range °C	BOX SINGLE SIGNAL			BOX DOUBLE SIGNAL		
								4 POS.	6 POS.	8 POS.	4 POS.	6 POS.	8 POS.
V-3+8	PVC /PVC	CEI2022II O.R.	Black	3G0.75mm ² 8x0.34mm ²	3+8	ø8.80mm	-20°C / +80°C	●	●	●	●		
V-3+16	PVC /PVC	CEI2022II O.R.	Black	3G0.75mm ² 16x0.34mm ²	3+16	ø10.60mm	-20°C / +80°C					●	●
P-3+8-K6-IS	PUR /TPO	 ULstyle 20549 	Black	3G18AWG 8x22AWG	3+8	ø8.80mm	-40°C / +80°C	●	●	●	●		
P-3+16-K6-IS	PUR /TPO	 ULstyle 20549 	Black	3G18AWG 8x22AWG	3+16	ø10.60mm	-40°C / +80°C					●	●

* = Cables with minimum quantity required.

H.T.P. High Tech Products S.R.L.

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