# 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, 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, being H.T.P. s.r.l. among the leading suppliers of companies such as Metal Work, SMC, Camozzi, Parker, BOSCH and Pneumax.

Hydraulics, having H.T.P. s.r.l., among others, customers such as Duplomatic and Hydac.

Producers of pressure switches, being H.T.P. s.r.l. supplier of companies such as Euroswitch, Trafag, Huba Control, Elettrotec, Ae.Cas, Suco and Fox.

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 both in Rockaway, New Jersey, USA, and in Taipei, Taiwan, both 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.'s own production is located in China.

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.webhtp.eu and contact our sales department at +39-035-692509 or send an email to: info@webhtp.eu.





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#### **CONFORMITY** CE , ROHS , REACH conformity declaration, EAC and UL Certificates



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.



REACH

#### **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 INDUSTRIAL ELECTRICAL CONNECTORS. PLUG CONNECTORS SERIES: FRI 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; CERTIFICATE OF COMPLIANCE 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; Certificate n° RU C-CN.HB27.B.00415/20 23;HDC;CG1;CM1;CM2;CP1;CP2;A;B;C;D;CG1E;CM1E,CM2E;A;C BLI Series: 0243802 Standard(s) for safety: All above connectors and plugs meet safety requirements TP TC 004/2011 for low voltage equipment. **UL CERTIFICATES DIN VALVE CONNECTORS FIELD ATTACHABLE & BASES** c **RL**<sup>®</sup> us CERTIFICATE OF COMPLIANCE Certificate nº E333724 US = UNITED STATES REQUIREMENTS COMPONENT-CONNECTORS FOR USE DATA, SIGNAL, CONTROL AND POWER APPLICATIONS **PL**<sup>®</sup> = RECOGNIZED PRODUCTS USR, CNR Component Connector, Series G1, G2, G1F and header BG. C = CANADIAN REQUIREMENTS Component Connector. Series Cat. Nos. P1 and P2 and header Series Cat. Nos. BP1 and BP2. USR, CNR Component Connector, Series M1&M2 and header BM. Standard(s) for safety: Component connectors for use in data, signal, control and power applications, UL 1977 and CAN/CSA C22.2 No.182.3-M1987 **M8 CIRCULAR CONNECTORS WITH MOULDED CABLE CERTIFICATE OF COMPLIANCE** Certificate n° E464987 US = UNITED STATES REQUIREMENTS CABLE ASSEMBLIES AND FITTINGS FOR INDUSTRIAL CONTROL AND SIGNAL DISTRIBUTION Female and male cable fittings (one-side molded-on models). Series M8,Cat.Nos.08 followed by F or M,followed by A or D followed by 3 or 4,followed by XXX LISTED PRODUCTS (where X can be alphanumeric character), followed by -K6, followed by -UL, -HN-UL or -IN-UL. Standard(s) for safety: C = CANADIAN REQUIREMENTS UL 2238 standard for cable assemblies and fittings for industrial control and signal distribution CSA C22.2 No.182.3-M1987 special use attachment plugs, receptacles and connectors. **M12 CIRCULAR CONNECTORS WITH MOULDED CABLE CERTIFICATE OF COMPLIANCE** Certificate nº E464987 CABLE ASSEMBLIES AND FITTINGS FOR INDUSTRIAL CONTROL AND SIGNAL DISTRIBUTION Female and Male Cable Fittings, Series M12, Cat. Nos. 12 or A12 or B12 or D12 or S12 followed by For M, followed by A or D or J or V, followed by 2 or 3 or 4 or 5 or 6 or 7 or 8, may be followed by K6, may be followed by -HN or -IN, followed by UL, may be followed by XXX (where X can be any alphanumeric character). Cable Assembly, Series M12, Cat. Nos. 12 or A12 or B12 or D12 or S12 followed by F or M, followed by A or D or J or V, followed by 2 or 3 or 4 or 5 or 6 or 7 or 8, followed by XXX (where X can be any alphanumeric character), may be followed by K6, followed by 12FA, or 12FD or 12FJ or 12FV or 12MA, or 12MD or 12MJ or 12MV, may be followed by -HN or -IN followed by LI Outlet, Series M12, Cat. Nos. S12 followed by F, followed by P or R, followed by 2 or 3 or 4, followed by XXX, followed by PG9 or M16. followed by UL, may be followed by XXX (where X can be any alphanumerichs character). 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

ATEX Certificates



ATEX MARKING

CC  $_{\rm 0948}$  II 2G Ex eb IIC T5 Gb ; II 2D Ex tb IIIC T100°C Db IP65/67

(€ 0948) Il 2G Ex eb IIC T5 Gb IP55/57

#### • ATEX CERTIFICATES

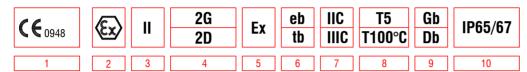
CONNECTOR'S TYPE

DIN VALVE CONNECTORS FIELD ATTACHABLE

M12 CIRCULAR CONNECTORS FIELD ATTACHABLE

M8 CIRCULAR CONNECTORS FIELD ATTACHABLE

#### DIN VALVE CONNECTORS FIELD ATTACHABLE:



#### M12 CIRCULAR CONNECTORS FIELD ATTACHABLE:

<b>CE</b> 0948	Æx>	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:

<b>CE</b> 0948	<b>(£x)</b>	II	2G	Ex	eb	IIC	T5	Gb	IP55/57
1	2	3	4	5	6	7	8	9	10

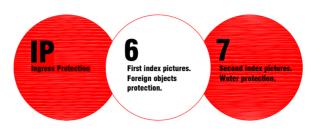
#### **GUIDE TO THE ATEX WORLD:**

1 ID 1	2 ID 2 3 Group Equipment	4 Equipment Category	
CE Marking 0948 : Notified body.	ATEX II = used in all other EX Marking. environments.	mists (zone 1) may occur; sr 2D = equipment suitable for air and flammable dusts (zon equipment; suitable to be ins	areas where, during normal activities, explosive atmospheres due to gas, vapors or uitable to be installed in zone 1.         areas where, during normal activities, explosive atmospheres due to a mixture of the 21) and that has inside a bonded device that will be connected to a category 1 stalled in zone 21.         Gas zone (G)       Dust zone(D)         1       21
			Image: Provide and the set of the protective systems and devices, that have to be used in the corresponding areas according to the below table.         Image: Provide and the set of the protective systems and devices, that have to be used in the corresponding areas according to the below table.         Image: Provide and the set of the protective systems and devices, that have to be used in the corresponding areas according to the below table.         Image: Image: Provide and the set of the protective systems and devices, that have to be used in the corresponding areas according to the below table.         Image: I
5 Equipment	6 Type of inition protection		7 Explosion Group
Ex= explosion-proof equipment.	<b>eb</b> = "eb" increased safety equipment. <b>tb</b> = equipment with an enclosure that prevents dust limit surface temperatures; protection level "b".	t ingress and with devices to	<ul> <li>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).</li> <li>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).</li> </ul>
8 Definition of terr	nperatures generated by equipment		9 Equipment protection level 10 Protection class
	can reach, but not exceed 100°C of absolute tem hat can reach, but not exceed in surface …°C of a		Gb = equivalent to 2G category.IP protection type.Db = equivalent to 2D category.



#### • 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 $\emptyset > 50$ mm.	The sample object, a ball of 50mm diameter,must not penetrate the enclousure completely.
2		Protection against contact with the fingers, protection against solid foreign bodies with $\emptyset > 12$ mm.	The sample object, a ball of 12.5mm diameter, must not penetrate the enclousure completely.
3	and the	Protection against tools, wires or similar objects with $\emptyset > 2.5$ mm, protection against solid foreign bodies with $\emptyset > 2.5$ mm.	The sample object, a ball of 2.5mm diameter,must not penetrate the enclousure at all.
4	ALS A	Just like 3 except for the size difference of ø 1mm.	The sample object, a ball of 1mm diameter,must not penetrate the enclousure 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.

6



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

PROT	OND INDEX PICTURE. Tection Class-Protection Age Er with Adverse Effects.	GAINST INGRESS OF	ss Protection 6 First index pictures. Foreign objects protection. 7 Second index pictures. Water protection.	
Index	De	egree of protection	Definition	
0	Ν	Vo 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 enclousure is tilted up to 15° on either side of the vertical.	
3	60° h	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,	

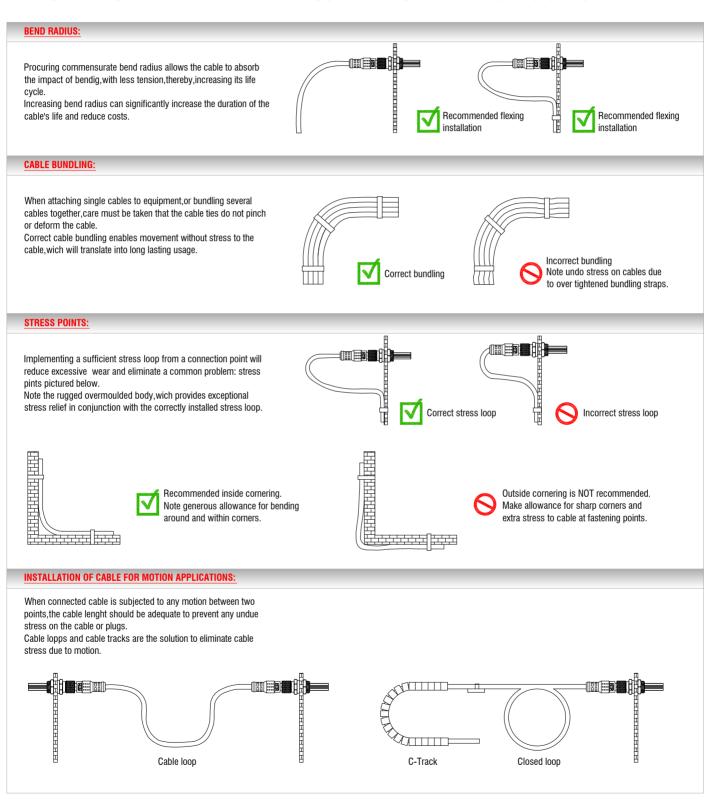
Water may only enter to such extent that the amount of water entering the Protection against temporary subimmersion in water. enclosure does not cause any adverse effects when the enclosure is 7 temporarily immersed in water; standardized pressure and time conditions apply. Water may not enter to such extent that it causes any adverse effects when Protected agasinst permanent subimmertion in the enclousure is continuously immersed in water, under conditions that have 8 water. been agreed upon by the manufacturer and the user; the conditions must be more difficult than the conditions described in point digit 7. 9 Water, directed against the enclosure from any direction under extremely Protected agasinst water from high-pressure / steam jet cleaners. high pressure, must not have any adverse effects. K

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.





Field attachable connectors - General features and codification scheme

Max contact current :

P1-P2 series: 10A.

P1-P2 series: 6A\*.

for one contacts pair.

G1-G4-M1-M2 series: 16A

G1-G4-M1-M2 ATEX series: 10A\*

\*Max current permanent ammisible

#### 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.

PACKAGING

contacts

SERIES

COLOUR B : BLUE. G : GREY

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 / 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.

##

#### # G1 Ν U 2 00 0 NO DIGIT : STANDARD PACKAGING. I : Single Bag. G1 : EN175301-803 form A (18mm). $\begin{array}{l} \textbf{G1C}: \text{EN175301-803 form } \dot{A} \ (18 \text{mm}) \ \text{complete with COVER}. \\ \textbf{G1F}: \text{EN175301-803 form } A \ (18 \text{mm}) \ \text{suitable for FASTONS} \end{array}$ G4 : Form A (18mm) Housing height : ~46mm. M1 : INDUSTRIAL form B (11mm). **M2** : EN175301-803 form B (10mm). **P1** : EN175301-803 form C (8mm). P2 : MICRO INDUSTRIAL form C (9.4mm) N : BLACK (STANDARD). T : TRANSPARENT (STANDARD). CABLE GLAND F: 1/2" NPTF (form A and form B/INDUSTRIAL). **P** : M16X1.5 (form B). **S** : PG9 (form B/INDUSTRIAL). U : PG9/11 UNIFIED (form A). Z : PG7 (form C/MICRO INDUSTRIAL)

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 : 48 V.

#### SOME VARIABLES

ATEX : ATEX CONFORM. H : EXAGONAL PRESS-CABLE. IG : INTEGRATED GASKET. P · FLAT GASKET SK : CABLE GLAND SK STYLE.

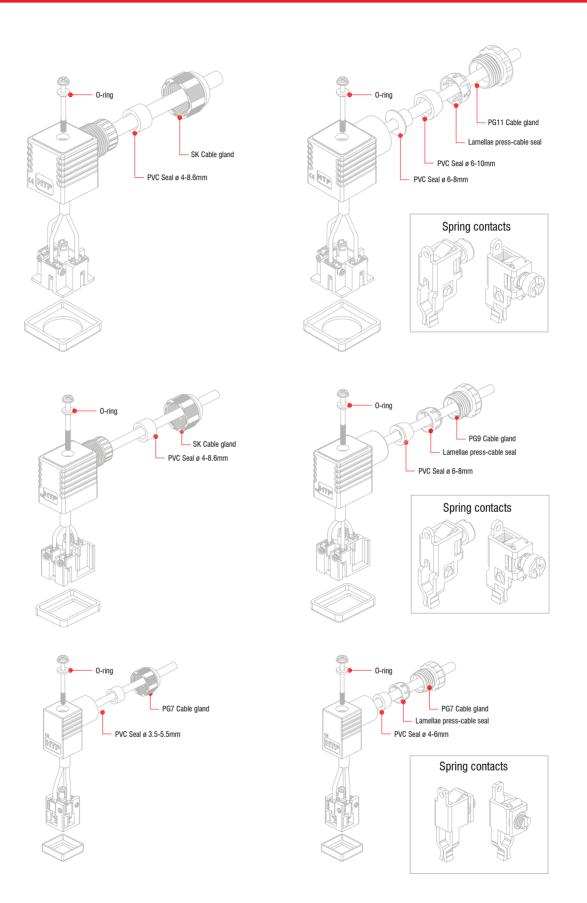
- 3A : ELECTRONIC WITH 3A COMPONENTS.
- D: BRIDGE RECTIFIER WITH 4 DIODES.

   SS: STAINLESS STEEL SCREW.

   UL: UL APPROVED -40°C +65°C (Black or Transparent connector).
- UL1 : UL APPROVED -40°C +90°C (Black on Hanspatel UL1 : UL APPROVED -40°C +90°C (Black connector). UL4 : UL APPROVED -40°C +125°C (Black connector).
- Y : WITHOUT H.T.P.LOGO.

Field attachable connectors - General features and codification scheme

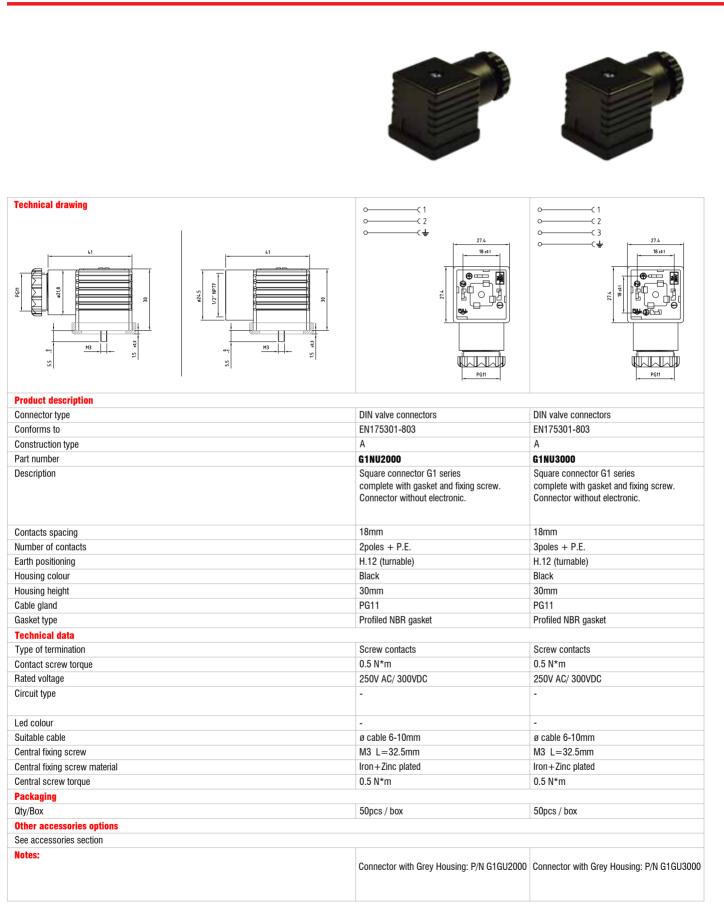




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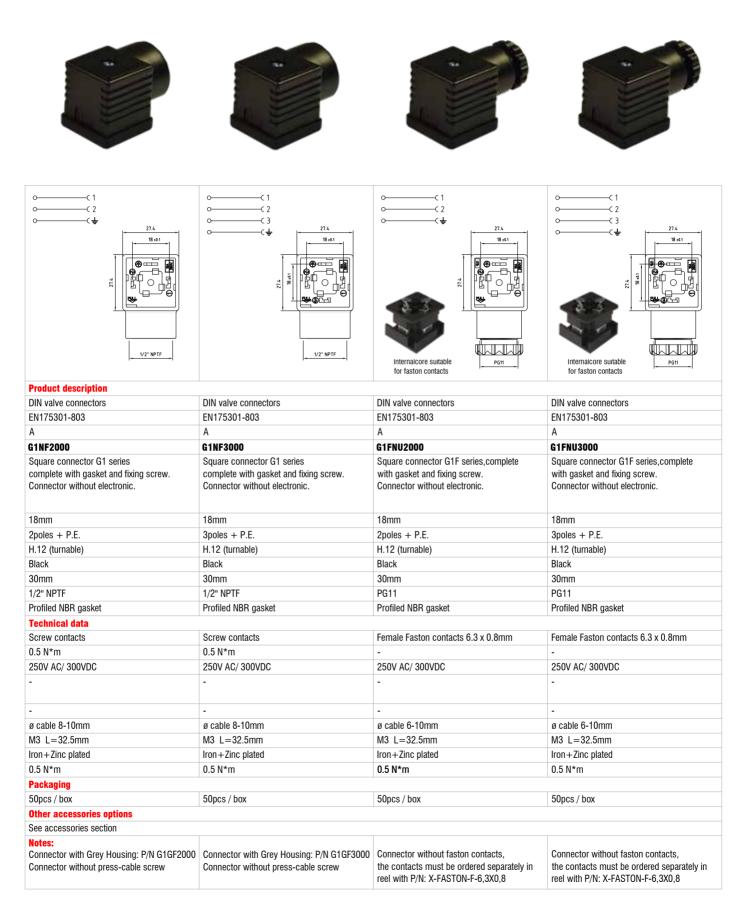


Field attachable connectors - Form A EN175301-803(DIN43650)



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

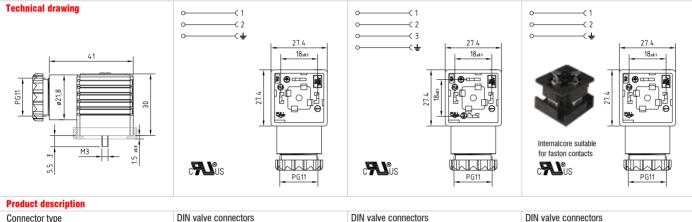






Field attachable connectors - Form A EN175301-803(DIN43650)



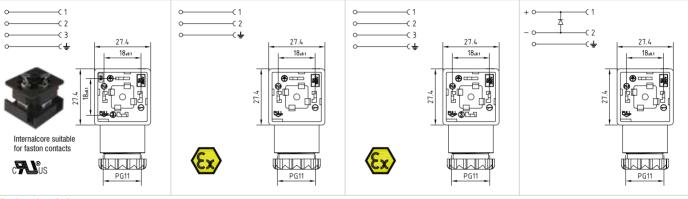


Product description			
Connector type	DIN valve connectors	DIN valve connectors	DIN valve connectors
Conforms to	EN175301-803	EN175301-803	EN175301-803
Construction type	A	A	A
Part number	G1NU2000-UL	G1NU3000-UL	G1FNU2000-UL
Description	Square connector G1 series,ULapproved, complete with gasket and fixing screw. Connector without electronic.	Square connector G1 series,ULapproved, complete with gasket and fixing screw. Connector without electronic.	Square connector G1F series,ULapproved, complete with gasket and fixing screw. Connector without electronic.
Contacts spacing	18mm	18mm	18mm
Number of contacts	2poles + P.E.	3poles + P.E.	2poles + P.E.
Earth positioning	H.12 (turnable)	H.12 (turnable)	H.12 (turnable)
Housing colour	Black	Black	Black
Housing height	30mm	30mm	30mm
Cable gland	PG9/PG11 unified	PG9/PG11 unified	PG9/PG11 unified
Gasket type	Profiled NBR gasket	Profiled NBR gasket	Profiled NBR gasket
Technical data			
Type of termination	Screw contacts	Screw contacts	Female Faston contacts 6.3 x 0.8mm
Contact screw torque	0.5 N*m	0.5 N*m	-
Rated voltage	250V AC/ 300VDC	250V AC/ 300VDC	250V AC/ 300VDC
Circuit type	-	-	-
Led colour	-	-	-
Suitable cable	ø cable 6-10mm	ø cable 6-10mm	ø cable 6-10mm
Central fixing screw	M3 L=32.5mm	M3 L=32.5mm	M3 L=32.5mm
Central fixing screw material	Iron+Zinc plated	Iron+Zinc plated	Iron+Zinc plated
Central screw torque	0.5 N*m	0.5 N*m	0.5 N*m
Packaging			,
Qty/Box	50pcs / box	50pcs / box	50pcs / box
Other accessories options			
See accessories section			
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

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





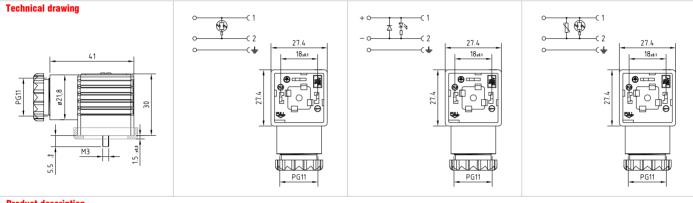


Product description			
DIN valve connectors	DIN valve connectors	DIN valve connectors	DIN valve connectors
EN175301-803	EN175301-803	EN175301-803	EN175301-803
A	A	A	A
G1FNU3000-UL	G1NU2000-ATEX	G1NU3000-ATEX	G1NU2D03
Square connector G1F series, ULapproved, complete with gasket and fixing screw. Connector without electronic.	Square connector G1 series,ATEX conform, complete with gasket and fixing screw. Connector without electronic.	Square connector G1 series,ATEX conform, complete with gasket and fixing screw. Connector without electronic.	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			



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





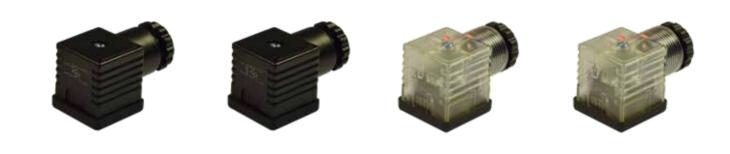
Product description										
Connector type	DIN valve con	DIN valve connectors			DIN valve connectors			DIN valve connectors		
Conforms to	EN175301-80	EN175301-803			EN175301-803			EN175301-803		
Construction type	Α			Α			A			
Part number	G1TU2L01	G1TU2L02	G1TU2L03	G1TU2DL1	G1TU2DL2	G1TU2DL3	G1TU2VL1	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	e)		H.12 (turnab	le)		H.12 (turnabl	e)		
Housing colour	Transparent			Transparent			Transparent			
Housing height	30mm			30mm			30mm			
Cable gland	PG9/PG11 un	ified		PG9/PG11 unified		PG9/PG11 unified				
Gasket type	Profiled NBR	gasket		Profiled NBR gasket		Profiled NBR gasket				
Technical data										
Type of termination	Screw contac	ts		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	e(1A)		Bipolar Led +	- Varistor		
Led colour	Red			Red			Red			
Suitable cable	ø cable 6-10n	nm		ø cable 6-10mm		ø cable 6-10mm				
Central fixing screw	M3 L=32.5m	nm		M3 L=32.5mm		M3 L=32.5mm				
Central fixing screw material	Iron+Zinc pla	ted		Iron+Zinc plated		Iron+Zinc plated				
Central screw torque	0.5 N*m	0.5 N*m		0.5 N*m		0.5 N*m				
Packaging	1									
Qty/Box	50pcs / box			50pcs / box			50pcs / box			
Other accessories options										
See accessories section										
Notes:										

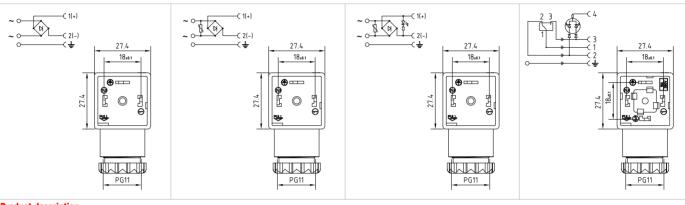
Notes:

Connector available with different led colour

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





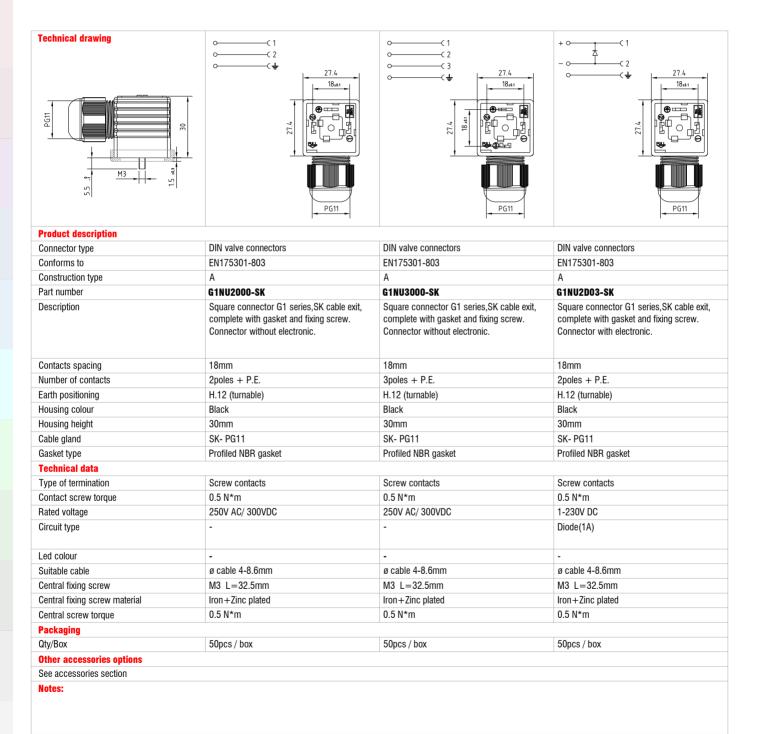


Product description									
DIN valve connectors	DIN valve connectors		DIN valve connectors			DIN valve connectors			
EN175301-803	EN175301-803		EN175301-8	EN175301-803		EN175301-80	)3		
Α	A			A			A		
G1NU2R03	G1NU2RV1	G1NU2RV2	G1NU2RV3	G1TU2RL1	G1TU2RL2	G1TU2RL3	G1TU3Q01	G1TU3Q02	G1TU3Q03
Square connector G1 series       Square connector G1 series         complete with gasket and fixing screw.       complete with gasket and fixing screw.         Connector with electronic.       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 (turnabl	e)		H.12 (turnable	e)	
Black	Black			Transparent			Transparent		
30mm	30mm			30mm			30mm		
PG9/PG11 unified	PG9/PG11 un	fied		PG9/PG11 unified			PG9/PG11 unified		
Profiled NBR gasket	Profiled NBR (	jasket		Profiled NBR gasket		Profiled NBR	gasket		
Technical data									
Screw contacts	Screw contac	S		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 Bidge Rectifier (1A)	Full-Wave Brid	lge Rectifier +	Varistor	Full-Wave Bridge Rectifier + Varistor + Led		Bicolour Led + no.2 Diodes (1A)		(1A)	
-	-			Red			Red (pin 2) ; Green (pin3)		
ø cable 6-10mm	ø cable 6-10n	ım		ø cable 6-10mm		ø cable 6-10mm			
M3 L=32.5mm	M3 L=32.5m	ım		M3 L=32.5mm		M3 L=32.5mm			
Iron+Zinc plated	Iron+Zinc pla	ted		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 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)					



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

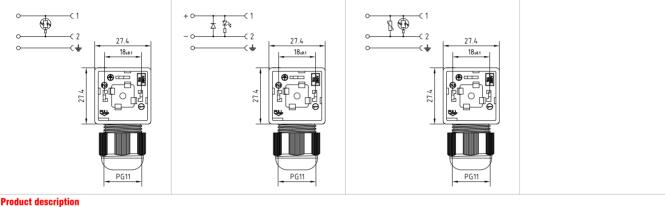




Field attachable connectors - Form A
EN175301-803(DIN43650)







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		
<b>Notes:</b> Connector available with different led colour		

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



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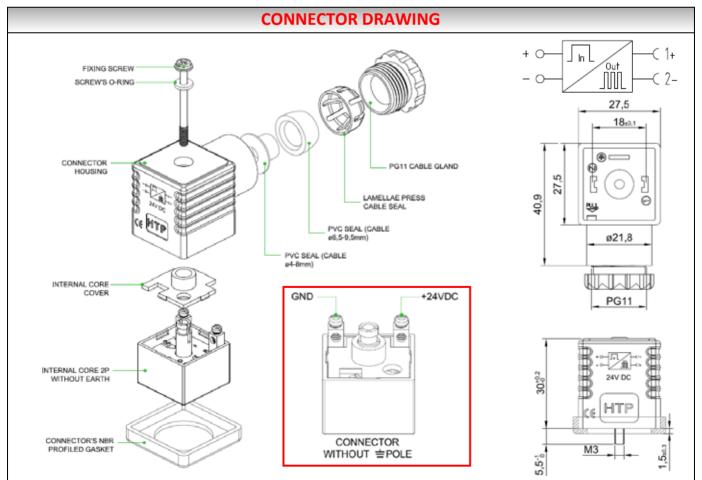
HIGH TECH PRODUCTS S.R.L.



#### **GENERAL SPECIFICATIONS**

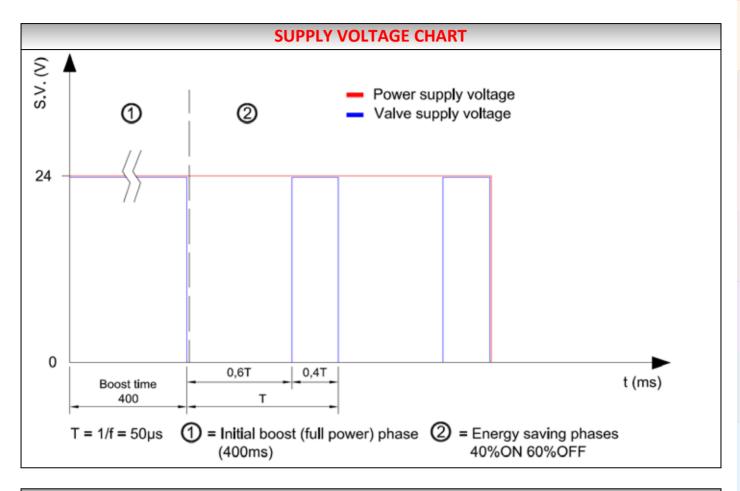
THE FOLLOWING FEATURES REFER TO THE PARTS CURRENTLY IN PRODUCTION OR TO THE PARTS WHOSE PRODUCTION HAS ALREADY BEEN FINALIZED. USED OR MAXIMUM POWER OR PERCENTAGE OF REDUCTION AS WELL AS "BOOST" TIMINGS OR OTHER FEATURES

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			





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



#### **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)



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



Technical drawing	o(1	o(1	
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	ø cable 6-10mm	ø cable 6-10mm	
Central fixing screw	M3 L=35.4mm	M3 L=35.4mm	
Central fixing screw material	Iron+Zinc plated	Iron+Zinc plated	
Central screw torque	0.5 N*m	0.5 N*m	
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	PG11	PG11	
Connector type	DIN valve connectors	DIN valve connectors	DIN valve connectors

51									
Conforms to	EN175301-803		EN175301-803		EN175301-803				
Construction type	Α		A		A				
Part number	G4NU2RV1-3A	G4NU2RV2-3A	G4NU2RV3-3A	G4TU2RL1-3A	G4TU2RL2-3A	G4TU2RL3-3A	G4TU2FL1-3A	G4TU2FL2-3A	G4TU2FL3-3A
Description		stor G4 series gasket and fixing n electronic (3A	<i>.</i>		tor G4 series gasket and fixin electronic (3A	0		ctor G4 series gasket and fixing n electronic (3A	
Contacts spacing	18mm			18mm			18mm		
Number of contacts	2poles + 2 P.I	Ε.		2poles + 2 P.	E.		2poles + 2 P.	Ε.	
Earth positioning	H.6-12			H.6-12			H.6-12		
Housing colour	Black / Black C	Cover		Black / Transp	arent Cover		Black / Transp	arent Cover	
Housing height	46.4mm			46.4mm			46.4mm		
Cable gland	PG9/PG11 unit	ied		PG9/PG11 unit	ied		PG9/PG11 unified		
Gasket type	Flat NBR gasket		Flat NBR gasket		Flat 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	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 Brid + Led	ge Rectifier(3A)	+ Varistor(3A)	RC circuit+ Le	ed		
Led colour	-			Red			Red		
Suitable cable	ø cable 6-10m	m		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 plate	ed		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			
Other accessories options									
See accessories section									
Notes:				Connector ava	ilable with differ	ent led colour	Connector ava	ilable with differe	ent led colour

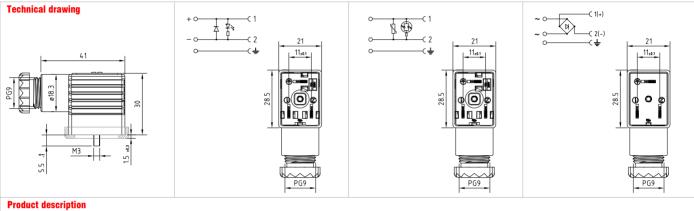


Technical drawing		
Product description		
Connector type	DIN valve connectors	DIN valve connectors
Conforms to	Industrial	Industrial
Construction type	В	B
Part number Description	M1NS2000 Rectangular connector M1 series complete with gasket and fixing screw. Connector without electronic.	M1NF2000 Rectangular 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 cool	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

Product description			1
DIN valve connectors	DIN valve connectors	DIN valve connectors	DIN valve connectors
Industrial	Industrial	Industrial	Industrial
В	В	В	В
M1NS2000-UL	M1NS2000-ATEX	M1NS2D03	M1TS2L01 M1TS2L02 M1TS2L03
Rectangular connector M1 series,ULapproved, complete with gasket and fixing screw. Connector without electronic.	Rectangular connector M1 series,ATEX conform,complete with gasket and fixing screw. Connector without electronic.	Rectangular connector M1 series complete with gasket and fixing screw. Connector with electronic.	Rectangular connector M1 series complete with gasket and fixing screw. Connector with electronic.
11mm	11mm	11mm	11mm
2poles + P.E.	2poles + P.E.	2poles + P.E.	2poles + P.E.
H.12 (turnable)	H.12 (turnable)	H.12 (turnable)	H.12 (turnable)
Black	Black	Black	Transparent
30mm	30mm	30mm	30mm
PG9	PG9	PG9	PG9
Profiled NBR gasket	Flat Silicone gasket	Profiled NBR gasket	Profiled NBR gasket
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
			Ded
- a apple 6.9mm	-	-	Red
ø cable 6-8mm M3 L=32.5mm	ø cable 6-8mm M3 L=32.5mm	ø cable 6-8mm M3 L=32.5mm	ø cable 6-8mm 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
	onigiy partou in plastic bay	00000/ 000	
Ather accessories antions			
Other accessories options See accessories section			







Product description								
Connector type	DIN valve conr	DIN valve connectors			DIN valve connectors		DIN valve connectors	
Conforms to	Industrial	Industrial			Industrial		Industrial	
Construction type	В	В					В	
Part number	M1TS2DL1	M1TS2DL2	M1TS2DL3	M1TS2VL1	M1TS2VL2	M1TS2VL3	M1NS2R03	
Description	complete with	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	e)		H.12 (turnable)	
Housing colour	Transparent			Transparent			Black	
Housing height	30mm			30mm			30mm	
Cable gland	PG9	PG9			PG9		PG9	
Gasket type	Profiled NBR g	asket		Profiled NBR gasket			Profiled NBR gasket	
Technical data	!							
Type of termination	Screw contact	S		Screw contac	ts		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(1	1A)		Bipolar Led +	Varistor		Full-Wave Bidge Rectifier (1A)	
Led colour	Red			Red			-	
Suitable cable	ø cable 6-8mm	n		ø cable 6-8mm			ø cable 6-8mm	
Central fixing screw	M3 L=32.5m	m		M3 L=32.5mm			M3 L=32.5mm	
Central fixing screw material	Iron+Zinc plat	ed		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	I							
See accessories section								
Notes:	Connector ava	ilable with diffe	erent led colour	Connector av	ailable with diffe	rent led colour		

Field attachable connectors - Form B - Industrial







Product description		
DIN valve connectors	DIN valve connectors	
Industrial	Industrial	
В	В	
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



	6	<b>a</b>	
Technical drawing			
Product description			
Connector type	DIN valve connectors	DIN valve connectors	DIN valve connectors
Conforms to	Industrial	Industrial	Industrial
Construction type	В	В	В
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
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
Part number		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.	Rectangular connector M1 series complete with gasket and fixing screw. Connector with electronic.
Contacts spacing	11mm	11mm	11mm
Number of contacts	2poles + P.E.	2poles + P.E.	2poles + P.E.
Earth positioning	H.12 (turnable)	H.12 (turnable)	H.12 (turnable)
Housing colour	Transparent	Transparent	Black
Housing height	30mm	30mm	30mm
Cable gland	SK - PG9	SK - PG9	PG9
Gasket type	Profiled NBR gasket	Profiled NBR gasket	Profiled NBR gasket
Technical data		-	-
Type of termination	Screw contacts	Screw contacts	Screw contacts
	0.5 N*m	0.5 N*m	0.5 N*m
Rated voltage	24V DC 115V DC 230V DC	24V AC/DC 115V AC/DC 230V AC/DC	1-230V AC
Circuit type	Led + Diode(1A)	Bipolar Led + Varistor	Full-Wave Bidge Rectifier (1A)
Led colour	Red	Red	-
Suitable cable	ø cable 4-8.6mm	ø cable 4-8.6mm	ø cable 4-8.6mm
Central fixing screw	M3 L=32.5mm	M3 L=32.5mm	M3 L=32.5mm
Central fixing screw material	Iron+Zinc plated	Iron+Zinc plated	Iron+Zinc plated
Central screw torque	0.5 N*m	0.5 N*m	0.5 N*m
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	







Product description		
DIN valve connectors	DIN valve connectors	
Industrial	Industrial	
В	В	
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	Tomod NDT guoret	
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	
	Dod	
-	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	50 (1	
50pcs / box	50pcs / box	
Other accessories options		
See accessories section	1	
Notes:	Connector available with different led colour	

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







Technical drawing	0 (1	0 (1
Product description		
Connector type	DIN valve connectors	DIN valve connectors
Conforms to	EN175301-803	EN175301-803
Construction type	В	В
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



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



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	В	B
Part number	M2TS2DL1 M2TS2DL2 M2TS2DL	
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 color	Connector available with different led colour

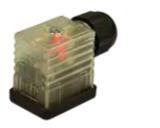


Field attachable connectors - Form B EN175301-803(DIN43650)

Technical drawing	o	+ o	o		
Product description					
Connector type	DIN valve connectors	DIN valve connectors	DIN valve connectors		
Conforms to	EN175301-803	EN175301-803	EN175301-803		
Construction type	В	В	В		
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	rishida hibir gashat				
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		
	0.0 N III	0.0 N III	0.0 N III		
Packaging Oty/Roy	50ncs / hox	50pcs / hox	50pcs / box		
Qty/Box	50pcs / box	50pcs / box	50pcs / box		
Other accessories options					
See accessories section			1		
Notes:	Connector available with different circuits.		Connector available with different led colour		

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



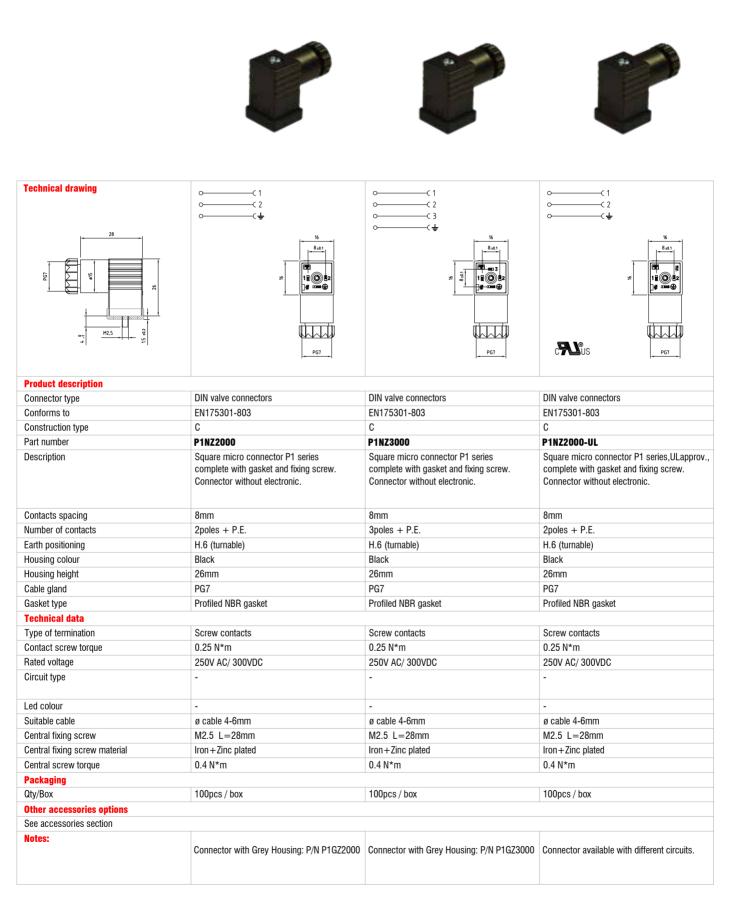




Technical drawing			
Product description	1		
Connector type	DIN valve connectors	DIN valve connectors	
Conforms to	EN175301-803	EN175301-803	
Construction type	В	В	
Part number	M2TS2DL1-SK M2TS2DL2-SK M2TS2DL3-SK		
Description	Rectangular connector M2 series complete with gasket and fixing screw. Connector 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	24V AC/DC 115V AC/DC 230V AC/DC	
Circuit type	Led + Diode(1A)	Bipolar Led + Varistor	
Led colour	Red	Red	
Suitable cable	ø cable 4-8.6mm	ø cable 4-8.6mm	
Central fixing screw	M3 L=32.5mm	M3 L=32.5mm	
Central fixing screw material	Iron+Zinc plated	Iron+Zinc plated	
Central screw torque	0.5 N*m	0.5 N*m	
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	



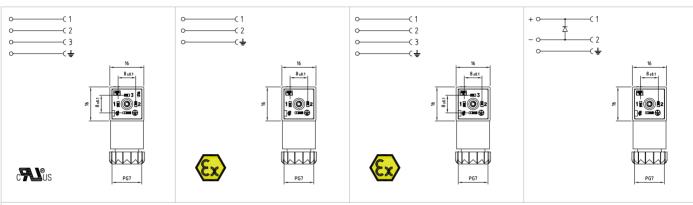
Field attachable connectors - Form C EN175301-803(DIN43650)



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,ULapprov., 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		<u> </u>	
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.			



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







Technical drawing									
Product description									
Connector type	DIN valve cor	inectors		DIN valve co	nnectors		DIN valve co	nnectors	
Conforms to	EN175301-8	03		EN175301-8	03		EN175301-8	03	
Construction type	C			С			С		
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 contac	ts		Screw conta	ots		Screw contac	ots	
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 4-6m	m		ø cable 4-6mm		ø cable 4-6mm			
Central fixing screw	M2.5 L=28r			M2.5 L=28mm		M2.5 L=28mm			
Central fixing screw material	Iron+Zinc pla			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				

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





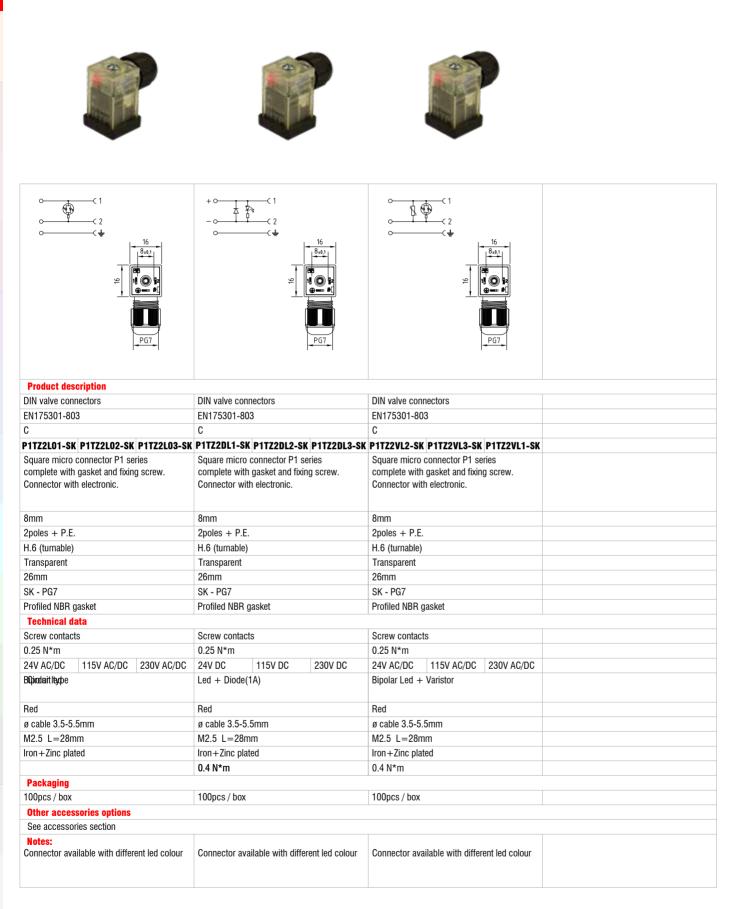




Technical document				
Technical drawing	o(1 o(2 o( <sup>⊥</sup>	o	+ • (1 - • (2 • ( <del>1</del>	
Product description				
Connector type	DIN valve connectors	DIN valve connectors	DIN valve connectors	
Conforms to	EN175301-803	EN175301-803	EN175301-803	
Construction type	С	С	C	
Part number	P1NZ2000-SK	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	1			
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.		



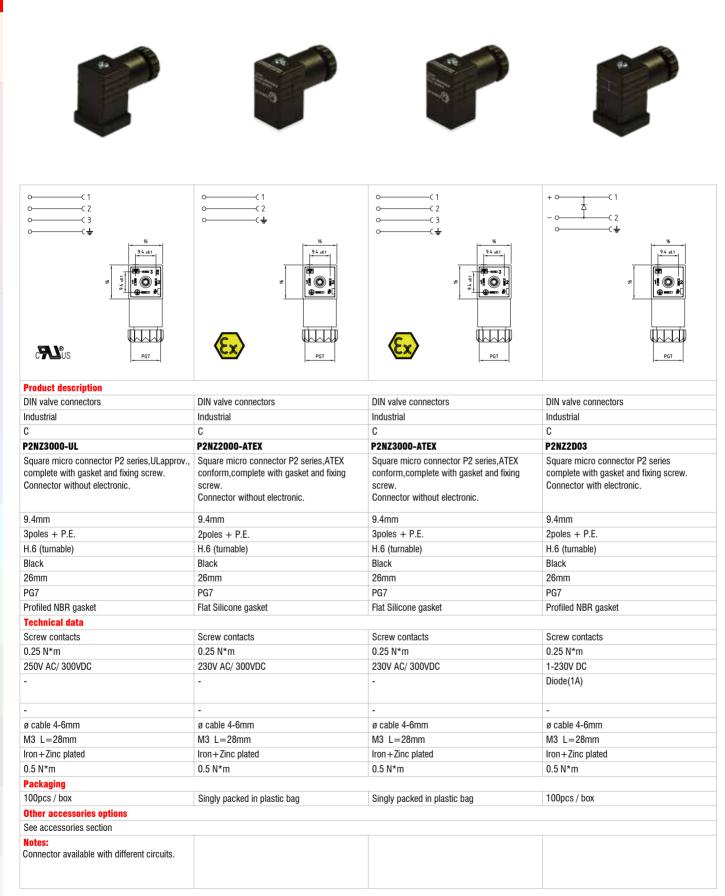
Field attachable connectors - Form C EN175301-803(DIN43650)





Technical drawing	o	o	o(1	
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28	9.4 ±0.1	9.4 ±0.1	9.4 ±0.1	
Product description	H+I		-  ++	
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, ULapprov 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	
Technical data				
Type of termination	Screw contacts	Screw contacts	Screw contacts	
		0.05 Ntm	0.25 N*m	
•	0.25 N*m	0.25 N*m		
Rated voltage	0.25 N*m 250V AC/ 300VDC	250V AC/ 300VDC	250V AC/ 300VDC	
Contact screw torque Rated voltage Circuit type				
Rated voltage Circuit type				
Rated voltage Circuit type Led colour	250V AC/ 300VDC - -	250V AC/ 300VDC - -	250V AC/ 300VDC -	
Rated voltage Circuit type Led colour Suitable cable	250V AC/ 300VDC - - ø cable 4-6mm	250V AC/ 300VDC - ø cable 4-6mm	250V AC/ 300VDC - ø cable 4-6mm	
Rated voltage Circuit type Led colour Suitable cable Central fixing screw	250V AC/ 300VDC - - ø cable 4-6mm M3 L=28mm	250V AC/ 300VDC - ø cable 4-6mm M3 L=28mm	250V AC/ 300VDC - ø cable 4-6mm M3 L=28mm	
Rated voltage Circuit type Led colour Suitable cable Central fixing screw Central fixing screw material	250V AC/ 300VDC - - ø cable 4-6mm	250V AC/ 300VDC - ø cable 4-6mm	250V AC/ 300VDC - ø cable 4-6mm	
Rated voltage Circuit type Led colour Suitable cable Central fixing screw Central fixing screw material Central screw torque	250V AC/ 300VDC - ø cable 4-6mm M3 L=28mm Iron+Zinc plated	250V AC/ 300VDC - ø cable 4-6mm M3 L=28mm Iron+Zinc plated	250V AC/ 300VDC - ø cable 4-6mm M3 L=28mm Iron+Zinc plated	
Rated voltage Circuit type Led colour Suitable cable Central fixing screw Central fixing screw material Central screw torque Packaging	250V AC/ 300VDC - ø cable 4-6mm M3 L=28mm Iron+Zinc plated	250V AC/ 300VDC - ø cable 4-6mm M3 L=28mm Iron+Zinc plated	250V AC/ 300VDC - ø cable 4-6mm M3 L=28mm Iron+Zinc plated	
Rated voltage Circuit type Led colour Suitable cable Central fixing screw Central fixing screw material Central screw torque Packaging Qty/Box	250V AC/ 300VDC - ø cable 4-6mm M3 L=28mm Iron + Zinc plated 0.5 N*m	250V AC/ 300VDC - - ø cable 4-6mm M3 L=28mm Iron+Zinc plated 0.5 N*m	250V AC/ 300VDC - ø cable 4-6mm M3 L=28mm Iron + Zinc plated 0.5 N*m	
Rated voltage	250V AC/ 300VDC - ø cable 4-6mm M3 L=28mm Iron + Zinc plated 0.5 N*m	250V AC/ 300VDC - - ø cable 4-6mm M3 L=28mm Iron+Zinc plated 0.5 N*m	250V AC/ 300VDC - ø cable 4-6mm M3 L=28mm Iron+Zinc plated 0.5 N*m	







DIN valve connectors	DIN valve connectors	DIN valve connectors	
Industrial	Industrial	Industrial	
С		C	
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.	P2TZ2VL1         P2TZ2VL2         P2TZ2VL3           Square micro connector P2 series         complete with gasket and fixing screw.           Connector with electronic.	
9.4mm	9.4mm	9.4mm	
2poles + P.E.	2poles + P.E.	2poles + P.E.	
•		H.6 (turnable)	
		Transparent	
26mm	26mm	26mm	
PG7	PG7	PG7	
Profiled NBR gasket	Profiled NBR gasket	Profiled NBR gasket	
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 4-6mm	ø cable 4-6mm	ø cable 4-6mm	
M3 L=28mm	M3 L=28mm	M3 L=28mm	
Iron+Zinc plated	Iron+Zinc plated	Iron+Zinc plated	
0.5 N*m	0.5 N*m	0.5 N*m	
100pcs / box	100pcs / box	100pcs / box	
Connector available with different led colour	Connector available with different led colour	Connector available with different led colour	
	DIN valve connectors         Industrial         C         P2T22L01       P2T22L02         P2T22L03         Square micro connector P2 series complete with gasket and fixing screw. Connector with electronic.         9.4mm         2poles + P.E.         H.6 (turnable)         Transparent         26mm         PG7         Q25 N*m         24V AC/DC       115V AC/DC         Bipolar led         Ø cable 4-6mm         Ø cable 4-6mm         M3 L = 28m         Iron + Zinc plated         0.5 N*m	Participant       Participant       Participant         Industrial       Industrial       Industrial         C       C       P2T22L01       P2T22L02       P2T22L03         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.         9.4mm       9.4mm       9.4mm         2poles + P.E.       2poles + P.E.       Connector with electronic.         9.4mm       9.4mm       2Gmm         2poles + P.E.       2poles + P.E.       F         H.6 (turnable)       Transparent       Transparent         Transparent       Transparent       Z         Screw contacts       0.25 N*m       0.25 N*m         0.25 N*m       0.25 N*m       230V DC         24V AC/DC       115V AC/DC       230V AC/DC       24V D         Bipolar led       with up aled       with up aled       With up aled         model 4-6mm       g cable 4-6mm       g cable 4-6mm       M cable 4-6mm         M3 L = 28mm       M3 L = 28mm       M3 L = 28mm       M cable 4-6mm         100pcs / box       100pcs / box       100pcs / bo	



Technical drawing				
Product description				
Connector type	DIN valve connectors	DIN valve connectors	DIN valve connectors	
Conforms to	Industrial	Industrial	Industrial	
Construction type	C	С	С	
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.		



Technical drawing	0 (1	10	0	
	$\begin{array}{c} & & \\$	$- _{19,4,a,b,\uparrow} _{19,4,a,b,\downarrow} _{19,4,a,b,b,\downarrow} _{19,4,a,b,b,\downarrow} _{19,4,a,b,b,\downarrow} _{19,4,a,b$	C +      C +	
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			K P2TZ2VL1-SK P2TZ2VL2-SK P2TZ2VL3-S	
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 Oty/Poy	100000 / box	100pcc / box	100pcc / boy	
Qty/Box	100pcs / box	100pcs / box	100pcs / box	
Other accessories options See accessories section				
Notes:				
NULCS;	Connector available with different led colour	Connector available with different led colour	Connector available with different led colour	



Moulded cable connectors - General Features and codification scheme

#### GENERAL FEATURES:

Conductor cross section :  $0.34(22AWG) \dots 1.50mm^2(16AWG)$ .

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 Protection class : IP67.

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

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

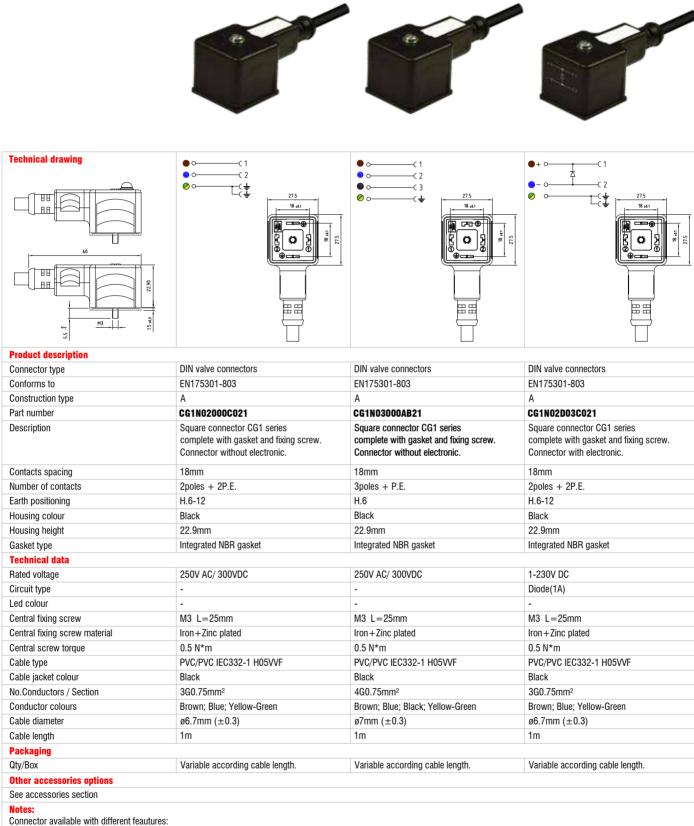
	CG1	Ν	0	2	00	0	С	02	2	-	##
SERIES		Ļ	Ļ								][
G1 : EN175301-803 form A (18mm).           RBG1 : EN175301-803 form A (18mm), with           RBG1 : EN175301-803 form A (18mm) EXIT           RGB : EN175301-803 form A (18mm) EXIT           RGB : EN175301-803 form A (18mm) EXIT           RGB : EN175301-803 form A (18mm).           EM1 : INDUSTRIAL form B (11mm).           EM1 : INDUSTRIAL form B (11mm).           EM175301-803 form A (18mm).           EM175301-803 form B (10mm).           EM175301-803 form C (8mm).           EM175301-803 form C (8mm).           EM175301-803 form C (8mm).           EM2 : EN175301-803 form C (8mm).           EM2 : EN175301-803 form C (8mm).           EM2 : EN175301-803 form C (8mm).           EM2 : MICRO INDUSTRIAL form C (8.4mm)           CONTACTS.           EM2 : MURDINUENTIAL form C (9.4mm).           EM2 : MURDINUENTIAL form C (9.4mm).           EM2 : MURDINUENTIAL form C (9.4mm).	CABLE 180°. T CABLE 180° V ABLE 180°. MALE CONTAC WITH MALE	VITH STS.									
P2C: MICRO INDUSTRIAL form C (9.4mm)	EXIT CABLE 18	10°.									
COLOUR G : GREY. N : BLACK (STANDARD).											
CABLE EXIT											
<b>0</b> : MOULDED CABLE.											
POLES NO. 2 : 2POLES + EARTH. 3 : 3POLES + EAR	гн										
SEE CIRCUITS FEATURES PAGE.											
VOLTAGE D: 250V / 300V. 1: 24V. 2: 115V. 3: 2	30V <b>4</b> · 12V	5 · 48V									
EARTH POSITION		• • • • •									
A : H.6. B : H.12. C : DOUBLE H.6-12. D	:H.3. E:H.9.	<b>F</b> : DOL	BLE H. 3	3-9.							
CABLE TYPE											
SEE CABLES FEATURES PAGE.											
CABLE LENGTH											
	<u>C</u> " = 2.3m F" = 2.6m <u>I</u> " = 2.9m										
SOME VARIABLES											
L : PROFILED GASKET. SS : STAINLESS S	TEEL SCREW.	Y : WITH	IOUT H.T	.P.LOG	D.						
4D : BRIDGE RECTIFIER WITH 4 DIODES. 3 12MA3 : EXTENSION M12 MALE 90° 3p. 12											
12FA3 : EXTENSION M12 FEMALE 90° 3p. 1					3n						

2poles + 2 P.E. 3poles + P.E. **EARTH PIN POSITION** H.12 Earth pin position for the DIN43650 valve connectors FN (3 with moulded cable has to be specified because its 0 Ø 12 2 internal core is fixed. The internal core cannot rotate as in the field attachable connectors. 0 H.3 H.9 A : H.6 To define the earth pin position it is necessary to look B:H.12 at the face view of the connector with the cable exit C : H.6 -12 side down. D : H.3 To easily identify the earth pin position you can compare the face view of the connector to a clock face view. E : H.9 H.6 F : H.3 - 9



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





See the cable codification scheme page See the cables list section



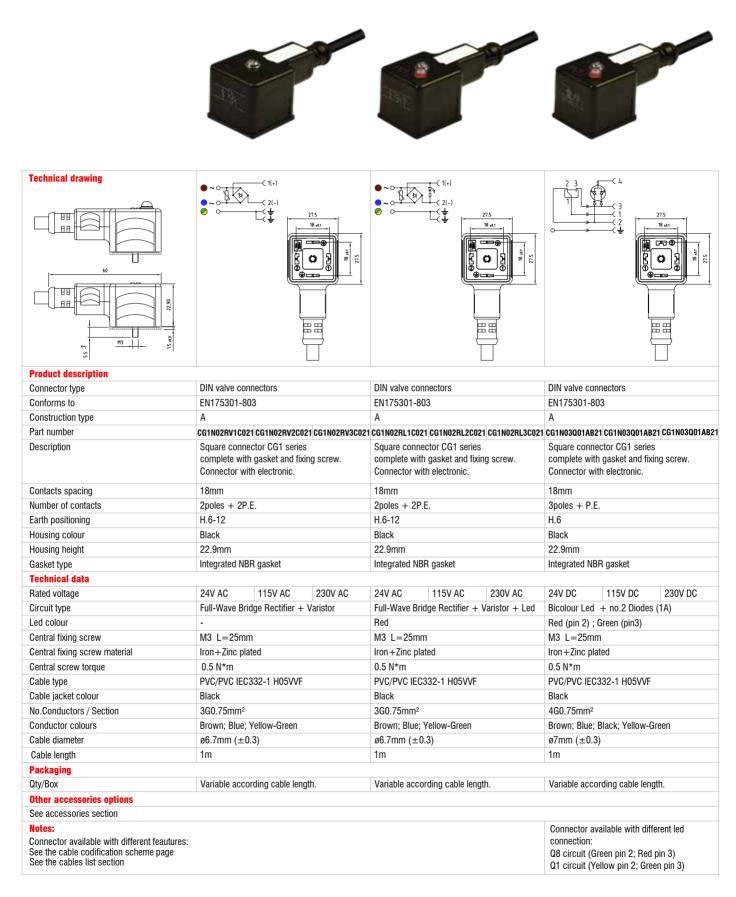
Moulded cable connectors - Form A EN175301-803(DIN43650)

		C A A A A A A A A A A A A A A A A A A A
DIN valve connectors	DIN valve connectors	DIN valve connectors
EN175301-803	EN175301-803	EN175301-803
Α	A	A
CG1N02DL1C021 CG1N02DL2C021 CG1N02DL3C02	G1N02VL1C021 CG1N02VL2C021 CG1N02VL3C021	CG1N02R03C021
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
2poles + 2P.E.	2poles + 2P.E.	2poles + 2P.E.
H.6-12	H.6-12	H.6-12
Black	Black	Black
22.9mm	22.9mm	22.9mm
22.9mm Integrated NBR gasket	22.9mm Integrated NBR gasket	22.9mm Integrated NBR gasket
Integrated NBR gasket	Integrated NBR gasket	Integrated NBR gasket
Integrated NBR gasket       24V DC     115V DC     230V DC	Integrated NBR gasket 24V AC/ DC 115V AC/DC 230V AC/DC	Integrated NBR gasket 1-230V AC
Integrated NBR gasket       24V DC     115V DC     230V DC       Led + Diode(1A)	Integrated NBR gasket 24V AC/ DC 115V AC/DC 230V AC/DC Bipolar Led + Varistor	Integrated NBR gasket 1-230V AC
24V DC 115V DC 230V DC Led + Diode(1A) Red	Integrated NBR gasket 24V AC/ DC 115V AC/DC 230V AC/DC Bipolar Led + Varistor Red	Integrated NBR gasket 1-230V AC Full-Wave Bridge Rectifier -
Integrated NBR gasket       24V DC     115V DC     230V DC       Led + Diode(1A)       Red       M3 L=25mm       Iron+Zinc plated       0.5 N*m	Integrated NBR gasket 24V AC/ DC 115V AC/DC 230V AC/DC Bipolar Led + Varistor Red M3 L=25mm Iron+Zinc plated 0.5 N*m	Integrated NBR gasket 1-230V AC Full-Wave Bridge Rectifier - M3 L=25mm Iron+Zinc plated 0.5 N*m
24V DC     115V DC     230V DC       Led + Diode(1A)     Red       M3 L=25mm     Iron+Zinc plated	Integrated NBR gasket 24V AC/ DC 115V AC/DC 230V AC/DC Bipolar Led + Varistor Red M3 L=25mm Iron+Zinc plated 0.5 N*m PVC/PVC IEC332-1 H05VVF	Integrated NBR gasket 1-230V AC Full-Wave Bridge Rectifier - M3 L=25mm Iron+Zinc plated 0.5 N*m PVC/PVC IEC332-1 H05VVF
Integrated NBR gasket       24V DC     115V DC     230V DC       Led + Diode(1A)       Red       M3 L=25mm       Iron+Zinc plated       0.5 N*m       PVC/PVC IEC332-1 H05VVF       Black	Integrated NBR gasket 24V AC/ DC 115V AC/DC 230V AC/DC Bipolar Led + Varistor Red M3 L=25mm Iron+Zinc plated 0.5 N*m PVC/PVC IEC332-1 H05VVF Black	Integrated NBR gasket 1-230V AC Full-Wave Bridge Rectifier - M3 L=25mm Iron+Zinc plated 0.5 N*m PVC/PVC IEC332-1 H05VVF Black
Integrated NBR gasket       24V DC     115V DC     230V DC       Led + Diode(1A)       Red       M3 L=25mm       Iron+Zinc plated       0.5 N*m       PVC/PVC IEC332-1 H05VVF       Black       3G0.75mm <sup>2</sup>	Integrated NBR gasket 24V AC/ DC 115V AC/DC 230V AC/DC Bipolar Led + Varistor Red M3 L=25mm Iron+Zinc plated 0.5 N*m PVC/PVC IEC332-1 H05VVF Black 3G0.75mm <sup>2</sup>	Integrated NBR gasket 1-230V AC Full-Wave Bridge Rectifier - M3 L=25mm Iron+Zinc plated 0.5 N*m PVC/PVC IEC332-1 H05VVF Black 3G0.75mm <sup>2</sup>
Integrated NBR gasket         24V DC         115V DC       230V DC         Led + Diode(1A)       Red       Integrated         M3 L=25mm       Integrated       Integrated         Jos N*m       PVC/PVC IEC332-1 H05VVF       Black         3G0.75mm²       Brown; Blue; Yellow-Green       Integrated	Integrated NBR gasket 24V AC/ DC 115V AC/DC 230V AC/DC Bipolar Led + Varistor Red M3 L=25mm Iron+Zinc plated 0.5 N*m PVC/PVC IEC332-1 H05VVF Black 3G0.75mm <sup>2</sup> Brown; Blue; Yellow-Green	Integrated NBR gasket 
Integrated NBR gasket 24V DC 115V DC 230V DC Led + Diode(1A) Red M3 L=25mm Iron+Zinc plated 0.5 N*m PVC/PVC IEC332-1 H05VVF Black 3G0.75mm <sup>2</sup> Brown; Blue; Yellow-Green ø6.7mm (±0.3)	Integrated NBR gasket 24V AC/ DC 115V AC/DC 230V AC/DC Bipolar Led + Varistor Red M3 L=25mm Iron +Zinc plated 0.5 N*m PVC/PVC IEC332-1 H05VVF Black 3G0.75mm <sup>2</sup> Brown; Blue; Yellow-Green ø6.7mm (±0.3)	Integrated NBR gasket 1-230V AC Full-Wave Bridge Rectifier - M3 L=25mm Iron+Zinc plated 0.5 N*m PVC/PVC IEC332-1 H05VVF Black 3G0.75mm <sup>2</sup> Brown; Blue; Yellow-Green ø6.7mm (±0.3)
Integrated NBR gasket         24V DC         115V DC       230V DC         Led + Diode(1A)       Red       Integrated         M3 L=25mm       Integrated       Integrated         Jos N*m       PVC/PVC IEC332-1 H05VVF       Black         3G0.75mm²       Brown; Blue; Yellow-Green       Integrated	Integrated NBR gasket 24V AC/ DC 115V AC/DC 230V AC/DC Bipolar Led + Varistor Red M3 L=25mm Iron+Zinc plated 0.5 N*m PVC/PVC IEC332-1 H05VVF Black 3G0.75mm <sup>2</sup> Brown; Blue; Yellow-Green	Integrated NBR gasket 1-230V AC Full-Wave Bridge Rectifier - M3 L=25mm Iron+Zinc plated 0.5 N*m PVC/PVC IEC332-1 H05VVF Black 3G0.75mm <sup>2</sup> Brown; Blue; Yellow-Green
Integrated NBR gasket 24V DC 115V DC 230V DC Led + Diode(1A) Red M3 L=25mm Iron+Zinc plated 0.5 N*m PVC/PVC IEC332-1 H05VVF Black 3G0.75mm <sup>2</sup> Brown; Blue; Yellow-Green ø6.7mm (±0.3) 1m	Integrated NBR gasket 24V AC/ DC 115V AC/DC 230V AC/DC Bipolar Led + Varistor Red M3 L=25mm Iron+Zinc plated 0.5 N*m PVC/PVC IEC332-1 H05VVF Black 3G0.75mm <sup>2</sup> Brown; Blue; Yellow-Green ø6.7mm (±0.3) 1m	Integrated NBR gasket 1-230V AC Full-Wave Bridge Rectifier - M3 L=25mm Iron+Zinc plated 0.5 N*m PVC/PVC IEC332-1 H05VVF Black 3G0.75mm <sup>2</sup> Brown; Blue; Yellow-Green ø6.7mm (±0.3) 1m
Integrated NBR gasket 24V DC 115V DC 230V DC Led + Diode(1A) Red M3 L=25mm Iron+Zinc plated 0.5 N*m PVC/PVC IEC332-1 H05VVF Black 3G0.75mm <sup>2</sup> Brown; Blue; Yellow-Green ø6.7mm (±0.3)	Integrated NBR gasket 24V AC/ DC 115V AC/DC 230V AC/DC Bipolar Led + Varistor Red M3 L=25mm Iron +Zinc plated 0.5 N*m PVC/PVC IEC332-1 H05VVF Black 3G0.75mm <sup>2</sup> Brown; Blue; Yellow-Green ø6.7mm (±0.3)	Integrated NBR gasket 1-230V AC Full-Wave Bridge Rectifier - M3 L=25mm Iron+Zinc plated 0.5 N*m PVC/PVC IEC332-1 H05VVF Black 3G0.75mm <sup>2</sup> Brown; Blue; Yellow-Green ø6.7mm (±0.3)
Integrated NBR gasket 24V DC 115V DC 230V DC Led + Diode(1A) Red M3 L=25mm Iron+Zinc plated 0.5 N*m PVC/PVC IEC332-1 H05VVF Black 3G0.75mm <sup>2</sup> Brown; Blue; Yellow-Green ø6.7mm (±0.3) 1m	Integrated NBR gasket 24V AC/ DC 115V AC/DC 230V AC/DC Bipolar Led + Varistor Red M3 L=25mm Iron+Zinc plated 0.5 N*m PVC/PVC IEC332-1 H05VVF Black 3G0.75mm <sup>2</sup> Brown; Blue; Yellow-Green ø6.7mm (±0.3) 1m	Integrated NBR gasket 1-230V AC Full-Wave Bridge Rectifier - M3 L=25mm Iron+Zinc plated 0.5 N*m PVC/PVC IEC332-1 H05VVF Black 3G0.75mm <sup>2</sup> Brown; Blue; Yellow-Green ø6.7mm (±0.3) 1m
	DIN valve connectors EN175301-803 A CG1N02DL1C021 CG1N02DL2C021 CG1N02DL3C02T Square connector CG1 series complete with gasket and fixing screw. Connector with electronic. 18mm 2poles + 2P.E. H.6-12	Image: Second

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

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







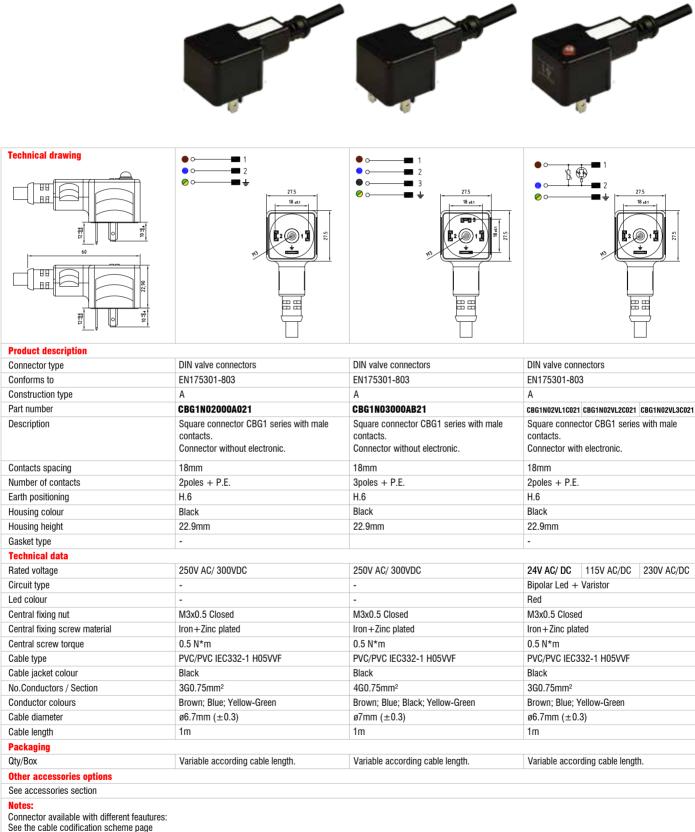
Moulded cable connectors - Form A EN175301-803(DIN43650)



Technical drawing		
Product description		
Connector type	DIN valve connectors	DIN valve connectors
Conforms to	EN175301-803	EN175301-803
Construction type	A	A
Part number	CG5N02000C021	CG5N03000AB21
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.
Contacts spacing	18mm	18mm
Number of contacts	2poles + 2P.E.	3poles + 2P.E.
Earth positioning	H.6-12	H.6
Housing colour	Black	Black
Housing height	32.9mm	32.9mm
Gasket type	Integrated NBR gasket	Integrated NBR gasket
Technical data		
Rated voltage	250V AC/ 300VDC	250V AC/ 300VDC
Circuit type	-	•
Led colour	-	•
Central fixing screw	M3 L=35mm	M3 L=35mm
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	3G0.75mm <sup>2</sup>	4G0.75mm <sup>2</sup>
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 feautures: See the cable codification scheme page See the cables list section		

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







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

Technical drawing	• o 1
Product description	
Connector type	DIN valve connectors
Conforms to	EN175301-803
Construction type	A
Part number Description	CBGBN02000A021 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	- M2v0 5
Central fixing nut	M3x0.5 Iron+Zinc plated
Central fixing screw material Central screw torque	0.5 N*m
Cable type	PVC/PVC IEC332-1 H05VVF
Cable jacket colour	Black
No.Conductors / Section	3G0.75mm <sup>2</sup>
Conductor colours	Brown; Blue; Yellow-Green
Cable diameter	ø6.7mm (±0.3)
Cable length	1m
Packaging	
Qty/Box	Variable according cable length.
Other accessories options	
See accessories section	
Notes: Connector available with different feauture See the cable codification scheme page See the cables list section	S:

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 Part number	Α	A	Α
Description	CGBN02000C021 Square connector CGB series (TOP exit DIN connector) complete with gasket and fixing screw. Connector without electronic.	CGBN03000AB21 Square connector CGB series (TOP exit DIN connector) complete with gasket and fixing screw. Connector without electronic.	CGBN02VL1C021 CGBN02VL2C021 CGBN02VL3C02 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	<b>24V AC/ DC</b> 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 Black	PVC/PVC IEC332-1 H05VVF Black
Cable jacket colour No.Conductors / Section	Black 3G0.75mm <sup>2</sup>	Black 4G0.75mm <sup>2</sup>	Black 3G0.75mm <sup>2</sup>
Conductor colours	Brown; Blue; Yellow-Green	Brown; Blue; Black; Yellow-Green	Brown; Blue; Yellow-Green
Cable diameter	ø6.7mm (±0.3)		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 feautures: See the cable codification scheme page See the cables list section			



Moulded cable connectors - Form B - Industrial

	8		
Technical drawing	• • • C1 C1		
Product description			
Connector type	DIN valve connectors	DIN valve connectors	DIN valve connectors
Conforms to	Industrial	Industrial	Industrial
Construction type	В	В	В
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	<b>24V AC/ DC</b> 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 <sup>2</sup>	3G0.75mm <sup>2</sup>	3G0.75mm <sup>2</sup>
Conductor colours	Brown; Blue; Yellow-Green	Brown; Blue; Yellow-Green	Brown; Blue; Yellow-Green
Cable diameter	ø6.7mm (±0.3)	ø6.7mm (±0.3)	ø6.7mm (±0.3)
Cable length	1m	1m	1m
Packaging	Mariable and address of the test	Maniphia and a set to the set	Mariable and and the set of the set
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 feautures: See the cable codification scheme page See the cables list section Moulded cable connectors - Form B - Industrial

® HIGH TECH PRODUCTS S.R.L.

		9	
		with overmoulding case	with overmoulding case
Product description DIN valve connectors	DIN valve connectors	DIN valve connectors	DIN valve connectors
Industrial	Industrial	Industrial	Industrial
B	B	B	B
	1 CM1N02VL1C021 CM1N02VL2C021 CM1N02VL3C021		CM1N02RL1C021 CM1N02RL2C021 CM1N02RL3C0
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	5 5	5 5	5 5
24V DC 115V DC 230V DC	24V AC/ DC 115V AC/DC 230V AC/DC	1-230V AC	24V AC 115V AC 230V AC
Led + Diode(1A)	Bipolar Led + Varistor	Full-Wave Bridge Rectifier	Full-Wave Bridge Rectifier + Varistor + Led
Red	Red		Red
M3 L=25mm	M3 L=25mm	M3 L=25mm	M3 L=25mm
Iron+Zinc plated	Iron+Zinc plated	Iron+Zinc plated	Iron+Zinc plated
0.5 N*m	0.5 N*m	0.5 N*m	0.5 N*m
PVC/PVC IEC332-1 H05VVF	PVC/PVC IEC332-1 H05VVF	PVC/PVC IEC332-1 H05VVF	PVC/PVC IEC332-1 H05VVF
Black	Black	Black	Black
3G0.75mm <sup>2</sup>	3G0.75mm <sup>2</sup>	3G0.75mm <sup>2</sup>	3G0.75mm <sup>2</sup>
Brown; Blue; Yellow-Green	Brown; Blue; Yellow-Green	Brown; Blue; Yellow-Green	Brown; Blue; Yellow-Green
ø6.7mm (±0.3)			ø6.7mm (±0.3)
1m		, ,	( )
	1m	1m	1m
Packaging Otv/Roy	Variable according cable length.	Variable according cable length.	Variable according asking to the
Qty/Box	ימוומטוב מכנטועוווט נמטוב ובווטנוו.	ימוומטוב מננטוטוווט נמטוב ובווטנוו.	Variable according cable length.
Other accessories options			
See accessories section Notes: Connector available with different feautures: See the cable codification scheme page See the cables list section			
			5

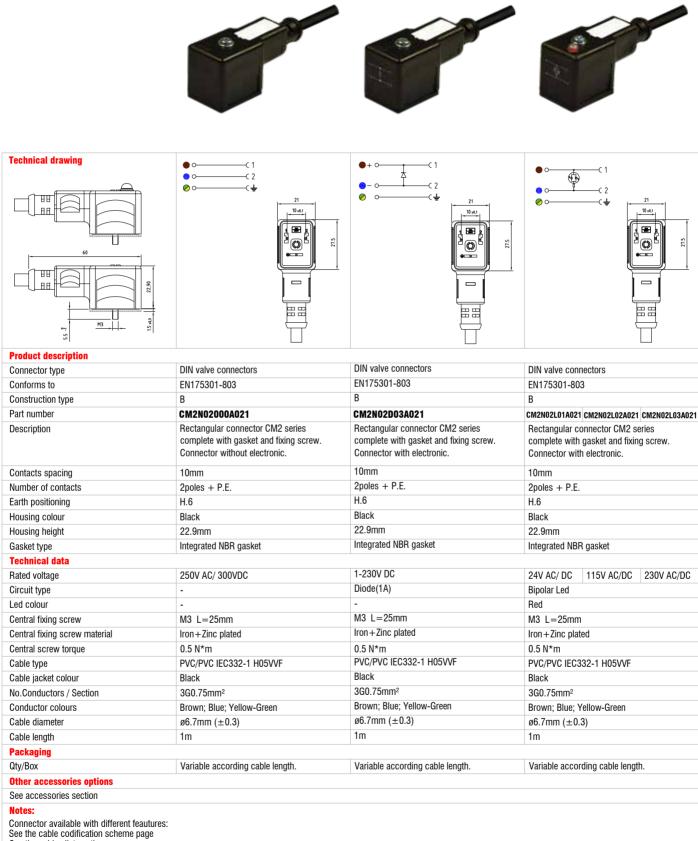


Moulded cable connectors - Form B - Industrial

Conforms to Construction type Part number Description Contacts spacing	DIN connector) complete with gasket and		DIN valve connectors Industrial B CM1BN02VL1B021 CM1BN02VL2B021 CM1BN02VL3B02T Rectangular connector CM1B series (TOP exit		
Product description         Connector type         Construction type         Part number         Description         Contacts spacing	© • • • • • • • • • • • • • • • • • • •	ZI TILAL ZI TILAL ZI ZI ZI ZI ZI ZI ZI ZI ZI ZI	DIN valve connectors Industrial B CM1BN02VL1B021 CM1BN02VL2B021 CM1BN02VL3B02		
Product description       Connector type       Conforms to       Construction type       Part number       Description       Contacts spacing	DIN valve connectors Industrial B CM1BN02000B021 Rectangular connector CM1B series (TOP exit DIN connector) complete with gasket and	DIN valve connectors Industrial B CM1BN02DL1B021 CM1BN02DL2B021 CM1BN02DL3B021	DIN valve connectors Industrial B CM1BN02VL1B021 CM1BN02VL2B021 CM1BN02VL3B02		
Connector type     I       Conforms to     I       Construction type     I       Part number     I       Description     I       Contacts spacing     I	Industrial B CM1BN02000B021 Rectangular connector CM1B series (TOP exit DIN connector) complete with gasket and	Industrial B CM1BN02DL1B021 CM1BN02DL2B021 CM1BN02DL3B021	Industrial B cm18no2vL18o21 cm18no2vL28o21 cm18no2vL38o2		
Conforms to Construction type Part number Description Contacts spacing	Industrial B CM1BN02000B021 Rectangular connector CM1B series (TOP exit DIN connector) complete with gasket and	Industrial B CM1BN02DL1B021 CM1BN02DL2B021 CM1BN02DL3B021	Industrial B CM1BN02VL1B021 CM1BN02VL2B021 CM1BN02VL3B02		
Construction type Part number Conscription Contacts spacing Contacts spacing Contacts spacing Contacts spacing Contacts space	B CM1BN02000B021 Rectangular connector CM1B series (TOP exit DIN connector) complete with gasket and	B cm1bN02dl1b021 cm1bN02dl2b021 cm1bN02dl3b021	B CM1BN02VL1B021 CM1BN02VL2B021 CM1BN02VL3B02		
Part number Description Contacts spacing	CM1BN02000B021 Rectangular connector CM1B series (TOP exit DIN connector) complete with gasket and	CM1BN02DL1B021 CM1BN02DL2B021 CM1BN02DL3B021	CM1BN02VL1B021 CM1BN02VL2B021 CM1BN02VL3B02		
Description Contacts spacing	Rectangular connector CM1B series (TOP exit DIN connector) complete with gasket and				
	fixing screw. Connector without electronic.	DIN connector) complete with gasket and fixing screw. Connector with electronic.	DIN connector) complete with gasket and fixing screw. Connector with electronic.		
	11mm	11mm	11mm		
	2poles + P.E.	2poles + P.E.	2poles + P.E.		
	H.12	H.12	H.12		
1 0	Black	Black	Black		
0	21.5mm	21.5mm	21.5mm		
0 0	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		
•	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 <sup>2</sup>	3G0.75mm <sup>2</sup>	3G0.75mm <sup>2</sup>		
	Brown; Blue; Yellow-Green	Brown; Blue; Yellow-Green	Brown; Blue; Yellow-Green		
	ø6.7mm (±0.3)	ø6.7mm (±0.3)	ø6.7mm (±0.3)		
0	1m	1m	1m		
Packaging	Variable according ashle land!	Variable appardice achieves th	Variable according anti-		
•	Variable according cable length.	Variable according cable length.	Variable according cable length.		
Other accessories options					
See accessories section Notes:					

Moulded cable connectors - F	orm	В
EN175301-803(DIN43650)		

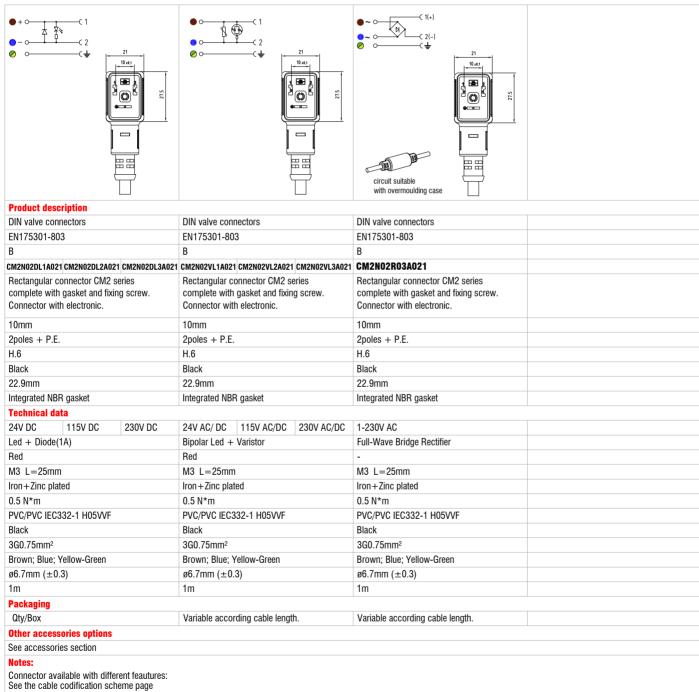






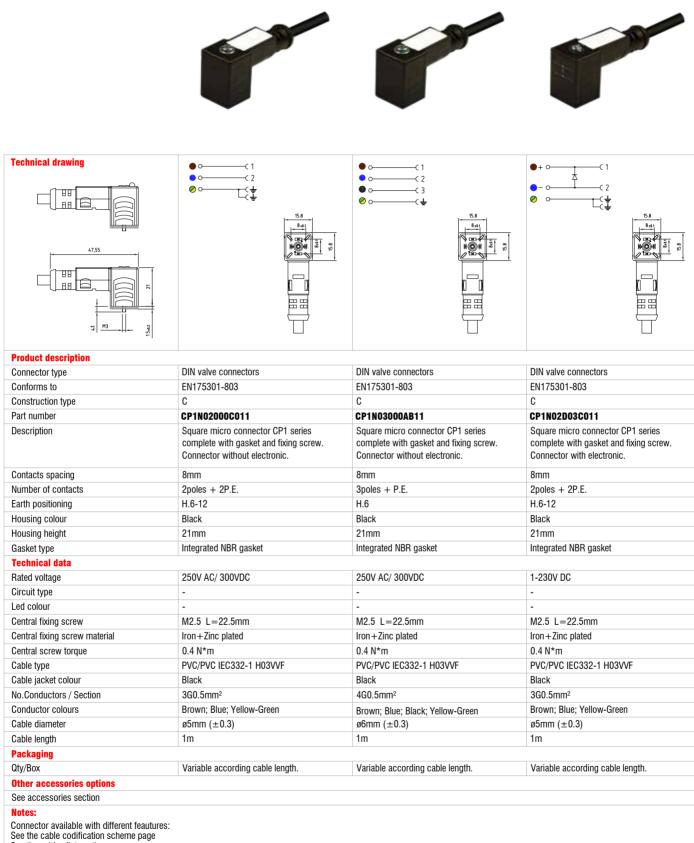
Moulded cable connectors - Form B EN175301-803(DIN43650)





Moulded cable connectors - I	Form	С
EN175301-803(DIN43650)		

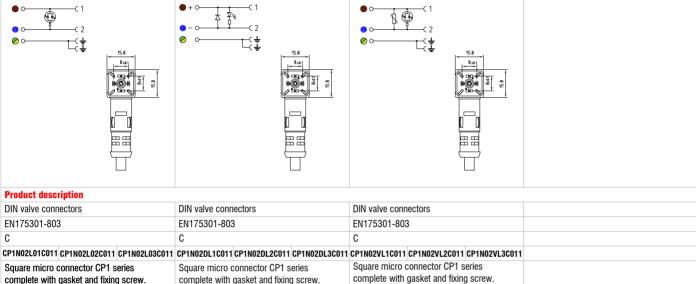






Moulded cable connectors - Form C EN175301-803(DIN43650)





Square micro connector CP1 series complete with gasket and fixing screw. Connector with electronic.			complete with gasket and fixing screw.				gasket and fixin h electronic.			
8mm			8mm			8mm				
2poles + 2P.E.			2poles + 2P.E.			2poles + 2P.E				
H.6-12						H.6-12				
Black			Black			Black				
21mm	21mm					21mm				
Integrated NB	R gasket		Integrated NBF	R gasket		Integrated NBF	R gasket			
Technical da	ta									
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 pla	ted		Iron+Zinc plated		Iron+Zinc plated					
0.4 N/m			0.4 N/m		0.4 N/m					
PVC/PVC IEC3	332-1 H03VVF		PVC/PVC IEC332-1 H03VVF		PVC/PVC IEC332-1 H03VVF					
Black			Black		Black					
3G0.5mm <sup>2</sup>			3G0.5mm <sup>2</sup>		3G0.5mm <sup>2</sup>					
Brown; Blue; Y	Yellow-Green		Brown; Blue; Yellow-Green		Brown; Blue; Yellow-Green					
ø5mm (±0.3)	)		ø5mm (±0.3)		ø5mm (±0.3)					
1m			1m		1m					
Packaging										
Variable acco	rding cable lengt	h.	Variable accor	rding cable leng	th.	Variable according cable length.				
Other access	sories options									
See accessori	ies section									
Notes:										
Connector ava	ailable with differ	ent feautures.								

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





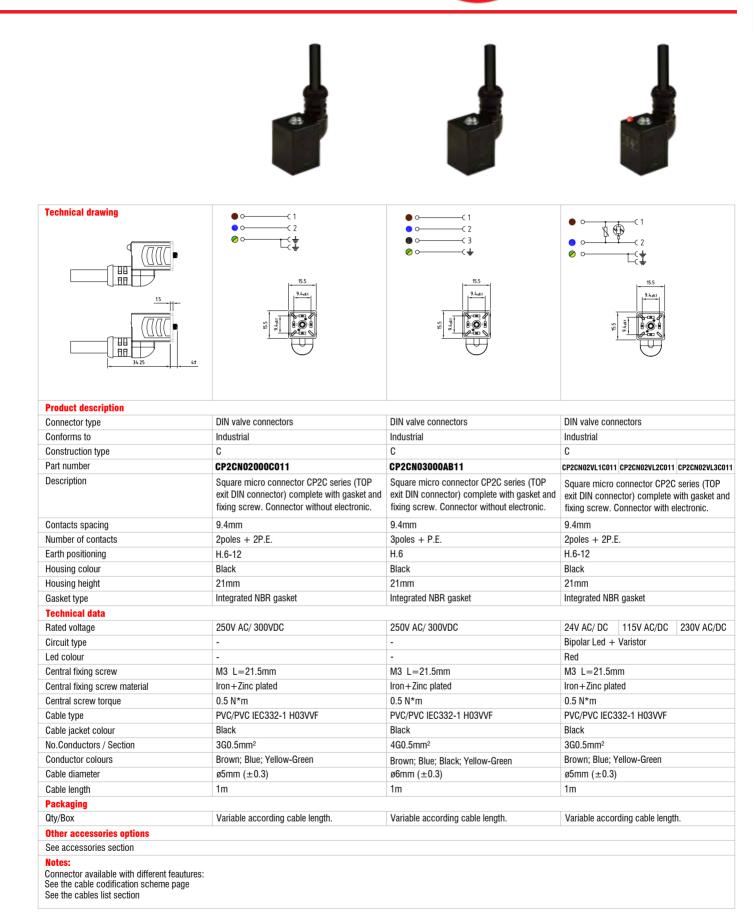
Technical drawing	• o( 1	• o	•+ •
		$ \begin{array}{c} \bullet \circ & & \\ \bullet & & $	
Product description			
Connector type	DIN valve connectors	DIN valve connectors	DIN valve connectors
Conforms to	Industrial	Industrial	Industrial
Construction type	С	С	С
Part number	CP2N02000C011	CP2N03000AB11	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	3G0.5mm <sup>2</sup>	4G0.5mm <sup>2</sup>	3G0.5mm <sup>2</sup>
Conductor colours	Brown; Blue; Yellow-Green	Brown; Blue; Black; Yellow-Green	Brown; Blue; Yellow-Green
Cable diameter	ø5mm (±0.3)	ø6mm (±0.3)	ø5mm (±0.3)
Cable length	1m	1m	1m
Packaging Oty/Roy	Variable according cable length.	Variable according cable length.	Variable according cable length.
Qty/Box	variable according cable length.	vanable according cable length.	
Other accessories options See accessories section			
Notes:			
Connector available with different feautures See the cable codification scheme page	:		



Moulded cable connectors - Form C - Industrial

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15.8 9.4		
	<u></u> 一 [巴马]	
DIN valve connectors	DIN valve connectors	
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	
2poles + 2P.E.	2poles + 2P.E.	
H.6-12	H.6-12	
Black	Black	
21mm	21mm	
Integrated NBR gasket	Integrated NBR gasket	
Black	Black	
3G0.5mm <sup>2</sup>	3G0.5mm <sup>2</sup>	
Brown; Blue; Yellow-Green	Brown; Blue; Yellow-Green	
ø5mm (±0.3)	ø5mm (±0.3)	
1m	1m	
Variable according cable length.	Variable according cable length.	
	2.5 cm         101N valve connectors         Industrial         C         CP1N02DL2C011 CP1N02DL3C011         Square micro connector CP2 series         complete with gasket and fixing screw.         Connector CP2 series         complete with gasket and fixing screw.         Connector Without electronic.         9.4mm       2poles + 2P.E.         H.6-12       Black         21mm       Integrated NBR gasket         24V DC       115V DC       230V DC         Led + Diode(1A)       Red         M3 L = 22.5mm       Iron + Zinc plated         0.5 N*m       PVC/PVC IEC332-1 H03VVF         Black       3G0.5mm²         Brown; Blue; Yellow-Green       ø5mm (±0.3)         1m       Im	DIN valve connectors       DIN valve connectors         Industrial       Industrial         C       C         CPIN02DL1011 CP1N02DL20011 CP1N02DL30011       CP2N02VL1011 CP2N02VL2011 CP2N02VL3011         Square micro connector CP2 series       complete with gasket and fixing screw.         connector without electronic.       Square micro connector CP2 series         9.4mm       9.4mm         2poles + 2P.E.       2poles + 2P.E.         H.6-12       H.6-12         Black       Black         21mm       21mm         Integrated NBR gasket       Integrated NBR gasket         VDC       115V DC       230V DC         24V DC       115V DC       230V AC/DC         Red       Red       Red         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       PVC/PVC IEC332-1 H03VVF         Black       Black       Black         3G0.5mm²       3G0.5mm²       <

Moulded cable connectors - Form C - Industrial





Bases - General features and codification scheme

#### • GENERAL FEATURES:

Conductor cross section : BG series: Max. 1.00mm<sup>2</sup>(19AWG). BM series: Max. 1.00mm<sup>2</sup>(19AWG). BP series: Max. 0.75mm<sup>2</sup> (18AWG).

Fixing system : Central fixing screw.

Max- screw torque IEC60947-1 (Central fixing nut) : BG series - BM1seried - 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.

2 BG1 Ν 0 00 0 ## -SERIES H 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  $\mathbf{G}$  : GREY.  $\mathbf{N}$  : BLACK (STANDARD).  $\mathbf{T}$  : TRANSPARENT. 0 POLES No. 2: 2POLES + EARTH. 3: 3POLES + EARTH. **CIRCUIT TYPE** 00 : WITHOUT ELECTRONIC

**VOLTAGE** 0:250V/300V.

SOME VARIABLES

UL : UL APPROVED. 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.

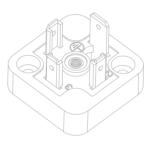
Flammability resistance : UL94-V2 - Standard. UL94-V0 - UL approved (upon request).

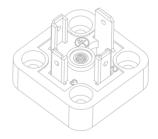
Protection class : IP 65 coupled.

**Operating temperature :** -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).











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	BGON02000	BGON03000
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		Ũ
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	200	
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





Bases Form A - EN175301-803(DIN43650)

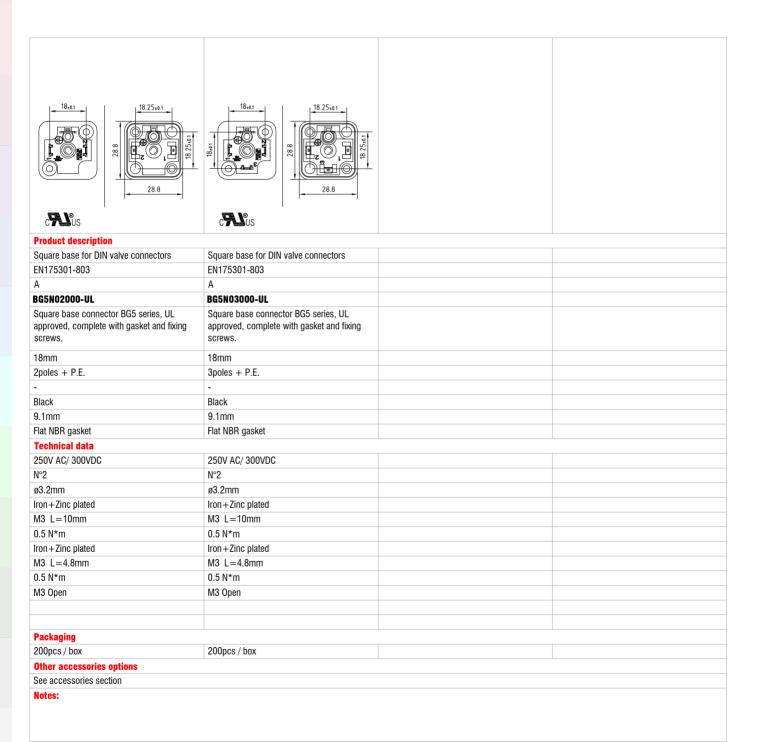












Bases Form A - EN175301-803(DIN43650)







Technical drawing			
	29±0,2	29±0,2	
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	Square base connector BG4 series complete	
Description	with gasket and fixing screws.	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 Flat NBR gasket	
Gasket type	Flat NBR gasket		
Technical data	1	1	
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	
	200003/ 001	2000007 000	
Other accessories options See accessories section			
Notes:			
	Base in Grey colour: P/N BG4G02000	Base in Grey colour: P/N BG4G03000	



**Technical drawing** 0 12:55 g ٢ 2.2 24:81 **Product description** Connector type Circular base for DIN valve connectors Circular base for DIN valve connectors EN175301-803 EN175301-803 Conforms to Construction type А А Part number **BG7N02000 BG7N03000** Description Circular base connector BG7 series without Circular base connector BG7 series without gasket and fixing screws. gasket and fixing screws. Contacts spacing 18mm 18mm Number of contacts 2poles + P.E. 3poles + P.E. Earth positioning Black Black Base colour 5.2mm 5.2mm Base height Gasket type -**Technical data** 250V AC/ 300VDC 250V AC/ 300VDC Rated voltage 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 200pcs / box 200pcs / box Qty/Box Other accessories options See accessories section Notes: Base in Grey colour: P/N BG7G02000 Base in Grey colour: P/N BG7G03000

Bases Form A - EN175301-803(DIN43650)





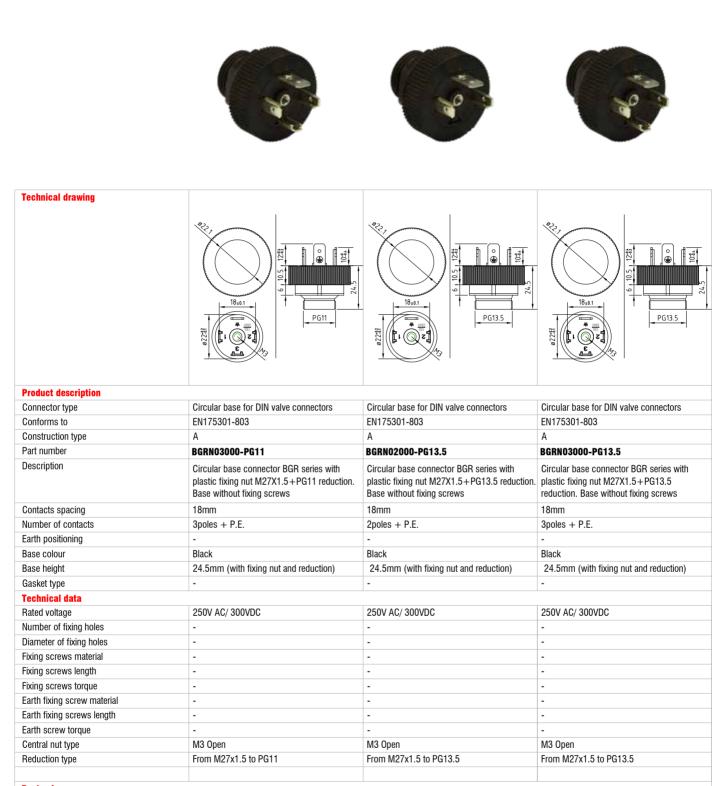




Technical drawing				
Product description				
Connector type	Circular base for DIN valve connectors	Circular base for DIN valve connectors	Circular base for DIN valve connectors	
Conforms to	EN175301-803	EN175301-803	EN175301-803	
Construction type	A	A	A	
Part number	BGRN02000	BGRN03000	BGRN02000-PG11	
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		1		
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		



Bases Form A - EN175301-803(DIN43650)



200pcs / box

200pcs / box

#### Packaging Qty/Box

Other accessories options

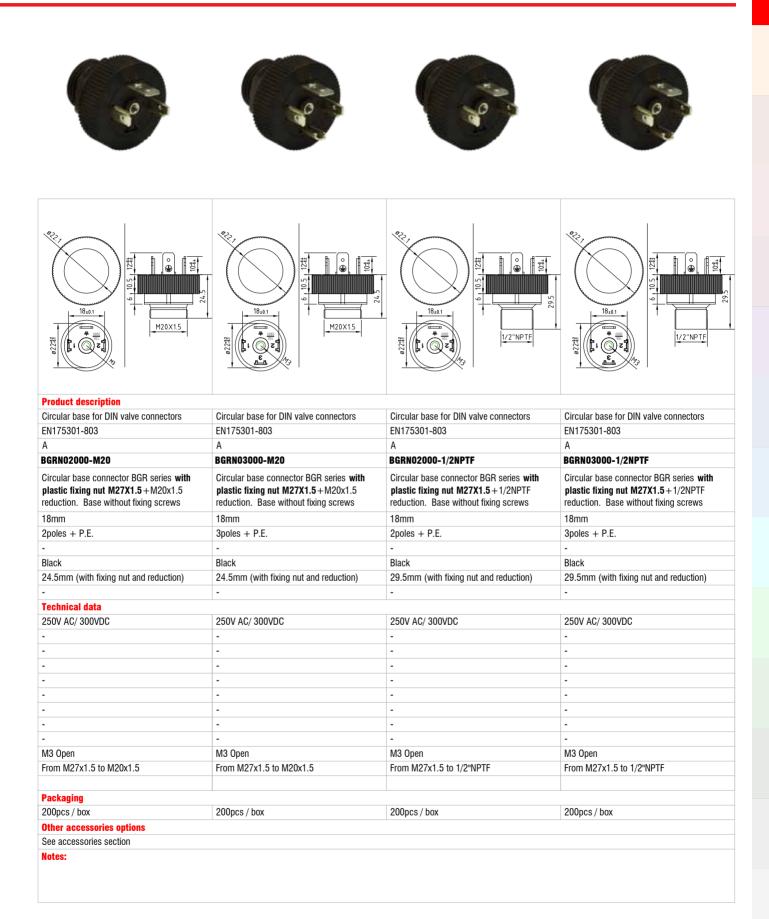
200pcs / box

See accessories section

Notes:

Bases Form A - EN175301-803(DIN43650)







Technical drawing			
Product description	Postangular base for DIN valve connectore	Poetangular base for DIN valve connectore	
Connector type Conforms to	Rectangular base for DIN valve connectors Industrial	Rectangular base for DIN valve connectors 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	
Other accessories options			
See accessories section			
Notes:	Base in Grey colour: P/N BM1G02000		

Bases Form C - EN175301-803(DIN43650)





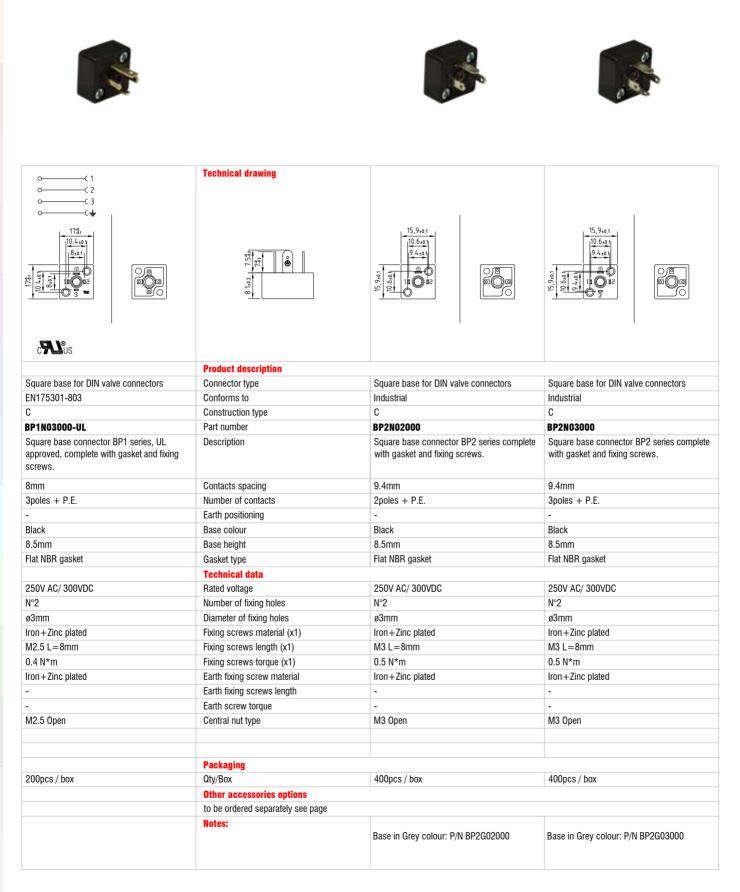




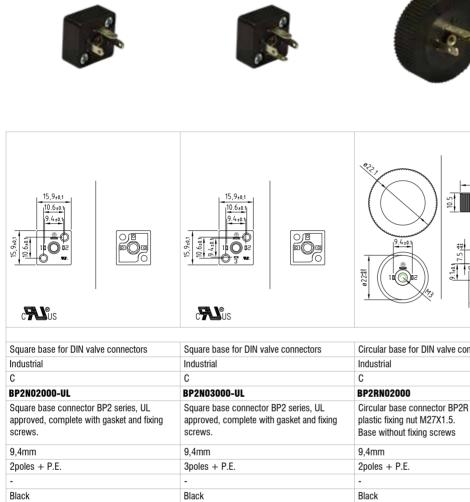
Technical drawing $ \begin{array}{c}                                     $				
Product description			c <b>AL</b> us	
Connector type	Square base for DIN valve connectors	Square base for DIN valve connectors	Square base for DIN valve connectors	
Conforms to	EN175301-803	EN175301-803	EN175301-803	
Construction type	C	C	C	
Part number	BP1N02000	BP1N03000	BP1N02000-UL	
Description	Square base connector BP1 series complete	Square base connector BP1 series complete	Square base connector BP1 series, UL	
Description	with gasket and fixing screws.	with gasket and fixing screws.	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		1	-	
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		

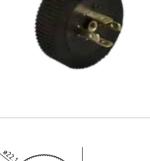


Bases Form C - Industrial









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10.5

9.1±0.17.5

9.4±0.1

ø34

ø21.8±0.15 ø25.2<sup>±0.1</sup>2

ø22:83

c <b>HL</b> us		
·	·	
•		Circular base for DIN valve connectors
		Industrial
	-	C
BP2N03000-UL	BP2RN02000	BP2RN03000
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
3poles + P.E.	2poles + P.E.	3poles + P.E.
-	-	-
Black	Black	Black
8.5mm	10.5mm (with plastic fixing nut)	10.5mm (with plastic fixing nut)
Flat NBR gasket	-	-
250V AC/ 300VDC	250V AC/ 300VDC	250V AC/ 300VDC
N°2	-	-
ø3mm	-	-
Iron+Zinc plated	-	-
M3 L=8mm	-	-
0.5 N*m	-	-
Iron+Zinc plated	-	-
-	-	-
-	-	-
M3 Open	M3 Open	M3 Open
	-	-
400pcs / box	200pcs / box	200pcs / box
	approved, complete with gasket and fixing screws. 9,4mm 3poles + P.E. - Black 8.5mm Flat NBR gasket 250V AC/ 300VDC №2 ø3mm Iron + Zinc plated M3 L = 8mm 0.5 N*m Iron + Zinc plated - -	Industrial       Industrial         C       C         BP2N03000-UL       BP2RN02000         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         9,4mm       9,4mm         3poles + P.E.       2poles + P.E.         -       -         Black       Black         8.5mm       10.5mm (with plastic fixing nut)         Flat NBR gasket       -         250V AC/ 300VDC       250V AC/ 300VDC         N°2       -         ø3mm       -         Iron + Zinc plated       -         0.5 N*m       -         Iron + Zinc plated       -         -       -         -       -         -       -







Technical drawing			
15 2 <sup>4</sup> 3 → 015 2 <sup></sup>			
Product description			
Connector type	Square base for DIN valve connectors	Square base for DIN valve connectors	
Conforms to	Industrial	Industrial	
Construction type	С	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	
Other accessories options			
to be ordered separately see page		1	
Notes:	Base in Grey colour: P/N BP3G02000	Base in Grey colour: P/N BP3G03000	

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









Technical drawing					
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			3 + <b>O</b>		
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	Α	Α		
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	1		1		
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.		



Adapters bases for DIN Valve connectors - Form B Industrial

Technical drawing					
	H.6 H.12	H.6 H.12	H.6 H.12		
Product description					
	Adapter base for DIN valve connectors	Adapter base for DIN valve connectors	Adapter base for DIN valve connectors		
	ndustrial	Industrial	Industrial		
Construction type B		В	В		
	M1N02DL1A AM1N02DL2A AM1N02DL3A	AM1N02VL1A AM1N02VL2A AM1N02VL3A	AM1N02FL1A AM1N02FL2A AM1N02FL3A		
Part number (P.E. H.12)	M1N02DL1B AM1N02DL2B AM1N02DL3B	AM1N02VL1B AM1N02VL2B AM1N02VL3B	AM1N02FL1B AM1N02FL2B AM1N02FL3		
Description R	Rectangular angled 90° adapter AM1 series	Rectangular angled 90° adapter AM1 series	Rectangular angled 90° adapter AM1 series		
	1mm	11mm	11mm		
	Ppoles + P.E.	2poles + P.E.	2poles + P.E.		
, ,	I.6 or H.12	H.6 or H.12	H.6 or H.12		
•	Black	Black	Black		
Adapter height 3	13.2mm	33.2mm	33.2mm		
Technical data					
	24V DC 115V DC 230V DC	24V AC/DC 115V AC/DC 230V AC/DC	24V AC/DC 115V AC/DC 230V AC/DC		
	ed + Diode(1A)	Bipolar Led + Varistor	Bipolar Led + RC circuit		
Led colour R	led	Red	Red		
			1		
Packaging					
Qty/Bag 1	pc / bag	1pc / bag	1pc / bag		
	pc / bag	1pc / bag	1pc / bag		

Adapters bases for DIN Valve connectors - Form B Industrial



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	TE			FE		
Technical drawing	+0			o <u></u> (1		
	ос. <del></del> Н.6	.H.12		o⊂ <u>∔</u> H.6	Н.12	
		SIE R R R R R R R R R R R R R R R R R R R				
Reduct description		20.8			20.8	
Product description Connector type	Adapter base for DIN	valve connectors		Adapter base for DIN	valve connectors	
Conforms to	Industrial			Industrial		
Construction type	B			В		
Part number (P.E. H.6)	- AM1N02DL1A-180	AM1N02DL2A-180	AM1N02DL3A-180		AM1N02VL2A-180	AM1N02VL3A-180
Part number (P.E. H.12)	AM1N02DL1B-180	AM1N02DL2B-180	AM1N02DL3B-180	AM1N02VL1B-180	AM1N02VL2B-180	AM1N02VL3B-180
Description		80° adapter AM1 series			80° adapter AM1 series	
Contacts spacing	11mm			11mm		
Number of contacts	2poles + P.E.			2poles + P.E.		
Earth positioning	H.6 or H.12			H.6 or H.12		
Adapter colour	Black			Black		
Adapter height	33.2mm			33.2mm		
Technical data					1	
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	r	
Led colour	Red			Red		
Packaging						
Qty/Bag	1pc / bag			1pc / bag		
JLV/DdU						
Other accessories options -						
Other accessories options						



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







Technical drawing								
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SI SI	Bat							
Product description								
Connector type	Adapter base for DIN	valve connectors	Adapter base	for DIN valve c	onnectors	Adapter base	for DIN valve co	nnectors
Conforms to	EN175301-803					EN175301-80		
Construction type	С		C			С		
Part number	AP1N02L01 AP1N	02L02 AP1N02L03	AP1N02DL1	AP1N02DL2	AP1N02DL3	AP1N02VL1	AP1N02VL2	AP1N02VL3
Description	Square micro angled	90° adapter AP1 series	Square micro		apter AP1 series	Square micro	angled 90° ada	
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			Bipolar Led +		
Led colour	Red		Red		Red			
Packaging								
Qty/Bag	1pc / bag		1pc / bag			1pc / bag		
Other accessories options			1.0					
-								
Notes:								
Adapter available with different led colour.								
Adapter available with different circuits.								

Adapters bases for DIN Valve connectors - Form C Industrial









Technical drawing	0									
	15.8 15.8 15.8 15.8 15.8				15.8 15.8 15.8 15.8 15.8 15.8					
Product description										
Connector type	Adapter base	Adapter base for DIN valve connectors			for DIN valve co	nnectors	Adapter base	for DIN valve co	nnectors	
Conforms to	Industrial			Industrial			Industrial			
Construction type	C			С			C			
Part number	AP2N02L01	AP2N02L02	AP2N02L03	AP2N02DL1		AP2N02DL3	AP2N02VL1	AP2N02VL2	AP2N02VL3	
Description	Square micro	angled 90° adap	oter AP2 series	Square micro	angled 90° adaj	oter AP2 series	Square micro	angled 90° adap	oter 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	1	
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 and codification scheme Adapters DIN valve connectors + M12/M8 connectors

#### • 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	- 12	MD -	##
SERIES           G1 : EN175301-803 form A (18mm).           G18 : EN175301-803 form A (18mm) TOP EXIT.           BG1 : EN175301-803 form A (18mm)WITH MALE C           BG1B: EN175301-803 form A (18mm)WITH MALE C           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. (BGTB SERIES ONLY WITHOUT ELECTRONIC).						
VOLTAGE 0 : 60V. 1 : 24V.						
ADAPTER WITH 12MD : M12 MALE 180° 3p. 12FD : M12 FEMALE 08MD3 : M8 MALE 180° 3p. 03FD3 : M8 FEMALE 08MD4 : M8 MALE 180° 4p. 08FD4 : M8 FEMALE	E 180° 3p.					
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







Technical drawing	1)	1)	1) + + + 4
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	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
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°3	n°3	n°3
Packaging		1	
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







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Technical drawing	1 > 4	1 ) 🚽 🖬 4	1 > 4
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€2	4	4	4
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	Α	A	A
Part number	G1N02000C-12MD	G1N02L01C-12MD	G1N02DL1C-12MD
Description	Adapter square connector EN175301-803	Adapter square connector EN175301-803	Adapter square connector EN175301-803
2000.1910.1	(form A) - M12 circular connector.	(form A) - M12 circular connector.	(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	WITZ	WI12	W12
Rated voltage	60V AC/DC	24V AC/DC	24V DC
Circuit type	-	Bipolar Led	Led + Diode(1A)
Led colour	-	Red	Red
	- M3 L=25mm	M3 L=25mm	M3 L=25mm
Central fixing screw			
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	4		
Qty/Bag	1pc / bag	1pc / bag	1pc / bag
Other accessories options			
See accessories section		1	
Notes:	Connector quailable with different size.	Connector available with different lad town	Connector quallable with different lad colour
	Connector available with different circuits	Connector available with different led colour	Connector available with different led colour





Technical drawing		
Connector type	Adapter DIN valve connector-M12 connector	Adapter DIN valve connector-M12 connector
Conforms to	EN175301-803	EN175301-803
Construction type	A	Α
Part number	G1N02VL1C-12MD	G1N02Q01A-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	1	
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)



### VALVE CONNECTORS Adapters DIN valve connectors - Form A





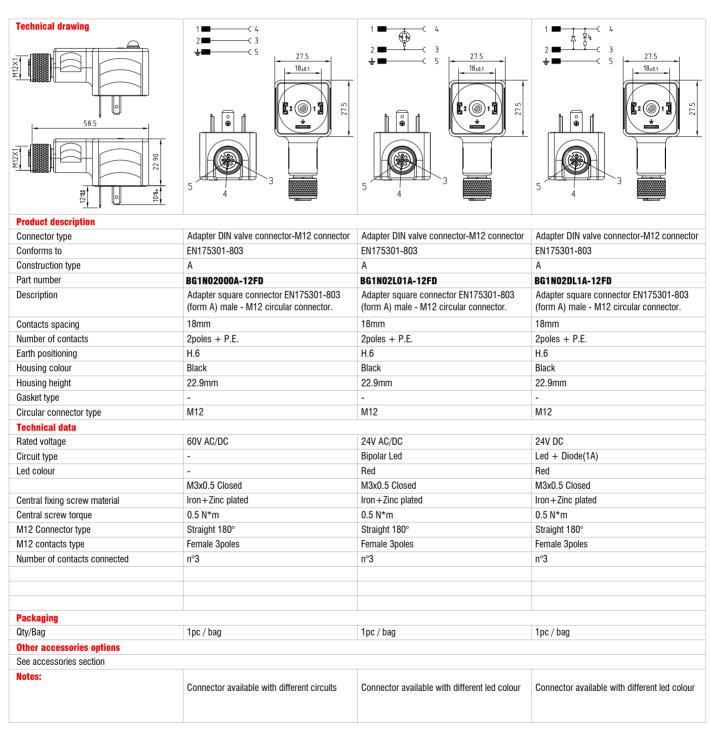


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Technical drawing			
Product description			
Connector type	Adapter DIN valve connector-M12 connector	Adapter DIN valve connector-M12 connector	Adapter DIN valve connector-M12 connector
Conforms to	EN175301-803	EN175301-803	EN175301-803
Construction type	A	Α	Α
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
Other accessories options			
See accessories section	1	1	1
Notes:	Connector available with different circuits	Connector available with different led colour	Connector available with different led colour

Adapters DIN valve connectors - Form A







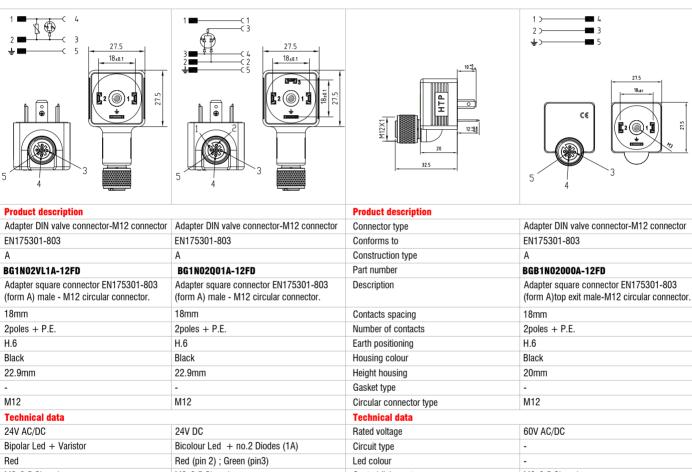


Adapters DIN valve connectors - Form A EN175301-803(DIN43650) + M12/M8 connectors









Red (pin 2) ; Green (pin3)	Led colour	_	
(1 ) , (P · · · · )		-	
M3x0.5 Closed	Central fixing nut	M3x0.5 Closed	
Iron+Zinc plated	Central fixing screw material	Iron+Zinc plated	
0.5 N*m	Central screw torque	0.5 N*m	
Straight 180°	M12 Connector type	Straight 180°	
Female 3poles	M12 contacts type	Female 3poles	
n°5	Number of contacts connected	n°3	
	Packaging		
1pc / bag	Qty/Box	1pc / bag	
	Other accessories options		
	See accessories section		
Connector available with different led connection: Q8 circuit (Green pin 2; Red pin 3)	Notes:		
	Iron + Zinc plated 0.5 N*m Straight 180° Female 3poles n°5 1pc / bag Connector available with different led connection:	Iron + Zinc plated     Central fixing screw material       0.5 N*m     Central screw torque       Straight 180°     M12 Connector type       Female 3poles     M12 contacts type       n°5     Number of contacts connected	Iron + Zinc plated     Central fixing screw material     Iron + Zinc plated       0.5 N*m     Central screw torque     0.5 N*m       Straight 180°     M12 Connector type     Straight 180°       Female 3poles     M12 contacts type     Female 3poles       n°5     Number of contacts connected     n°3       -     -     -       -     -

EN175301-803(DIN43650) + M12/M8 connectors









Technical drawing	1 <b>—</b> ———————————————————————————————————	1 - 4	1 <b>—</b> • • • • • • • • • • • • • • • • • • •
			$2 \longrightarrow C3$ $27.5$ $18.01$ $18.01$ $5 \longrightarrow C$ $3 \longrightarrow C$
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°3	n°3	n°3
Packaging			
Qty/Bag	1pc / bag	1pc / bag	1pc / bag
Other accessories options	· , ~~g	·r-, ~~y	,

See accessories section Notes:

Connector available with different circuits Connector available with different led colour

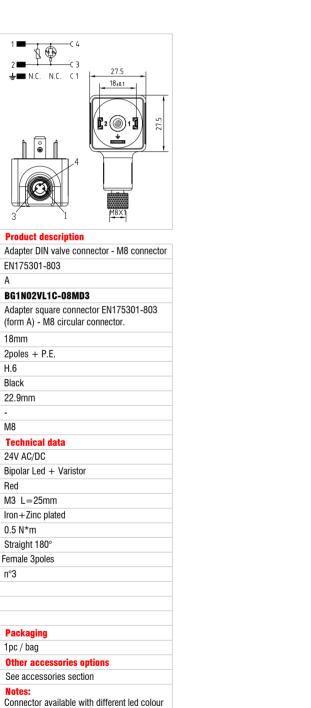
Connector available with different led colour

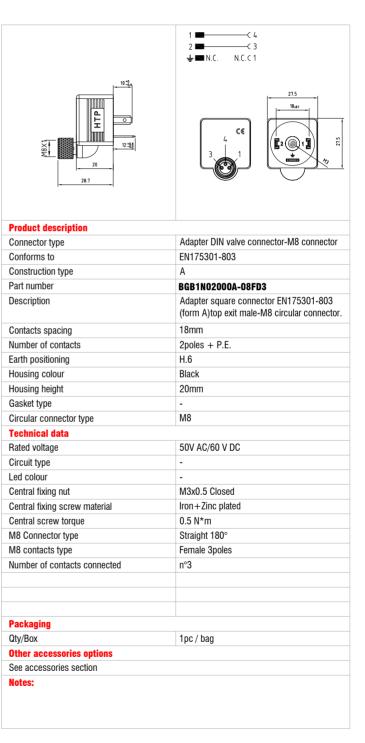


Adapters DIN valve connectors - Form A EN175301-803(DIN43650) + M12/M8 connectors









А

H.6

M8

Red

n°3

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









Technical drawing	1 ) 4 2 ) 3 4 2 ) 1 1 205 1 1 1 1 1 1 1 1 1 1 1 1 1	$1 _{\Delta} _{\Delta} _{\Delta} 4$ $2 _{\Delta} _{\Delta} 3$ $\frac{1}{2} _{\Delta} _{\Delta} 1$ $\frac{1}{285}$ $1 _{\Delta} _{\Delta} _{\Delta} 1$	
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	В	В	В
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°3	n°3	n°3
Packaging			
Qty/Bag	1pc / bag	1pc / bag	1pc / bag
Other accessories options			
See accessories section			
Notes:	Connector available with different circuits	Connector available with different led colour	Connector available with different led colour



Adapters DIN valve connectors - Form B Industrial + 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	Industrial	Industrial	Industrial
Construction type	В	В	В
Part number	M1N02000C-12MD3	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
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	1 >	1) - +	1)
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	В	В	В
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
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°3	n°3	n°3
	11.3	11.5	11.5
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
L		1	1



# VALVE CONNECTORS Adapters DIN valve connectors - Form B







Technical drawing	1)	1 2	1 >
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	В	В	В
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	Н.6	Н.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 Spoles
Number of contacts connected	n°3	n°3	n°3
Packaging			
Qty/Bag	1pc / bag	1pc / bag	1pc / bag
Other accessories options	1		
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			
· · · · · · · · · · · · · · · · · · ·	Adapter DIN valve connector-M8 connector	Adapter DIN valve connector-M8 connector	Adapter DIN valve connector-M8 connector
Connector type Conforms to	EN175301-803	EN175301-803	EN175301-803
	C	EN175301-803	C
Construction type Part number	-	P1N02DL1C-08MD3	P1N02VL1C-08MD3
	P1N02000C-08MD3		Adapter square connector EN175301-803
Description	Adapter square connector EN175301-803 (form C) - M8 circular connector.	Adapter square connector EN175301-803 (form C) - M8 circular connector.	(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°3	n°3	n°3
Packaging			
Qty/Bag	1pc / bag	1pc / bag	1pc / bag
Other accessories options		· · · ·	
See accessories section			
Notes:			
	Connector available with different circuits	Connector available with different led colour	Connector available with different led colour
		1	









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Technical drawing	1) 4		1) 4
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		5	
	4 <u></u>	4 <u></u>	4
Product description		1	
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	С	С	С
Part number	P1N02000C-12MD	P1N02DL1C-12MD	P1N02VL1C-12MD
Description	Adapter square connector EN175301-803	Adapter square connector EN175301-803	Adapter square connector EN175301-803
	(form C) - M12 circular connector.	(form C) - M12 circular connector.	(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	1	1	1
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

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









Technical drawing					
Product description	Adapter DIN volve connector M0 connector	Adapter DIN value connector MQ connector	Adapter DIN value connector M0 connector		
Connector type	Adapter DIN valve connector-M8 connector	Adapter DIN valve connector-M8 connector	Adapter DIN valve connector-M8 connector		
Conforms to	Industrial C	Industrial C	Industrial C		
Construction type Part number	P2N02000C-08MD3	P2N02DL1C-08MD3			
	Adapter square industrial micro connector	Adapter square industrial micro connector	P2N02VL1C-08MD3 Adapter square industrial micro connector		
Description	(form C) - M8 circular connector.	(form C) - M8 circular 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°3	n°3	n°3		
Packaging					
Qty/Bag	1pc / bag	1pc / bag	1pc / bag		
Other accessories options					
See accessories section					
Notes: Connector available with different circuits		Connector available with different led colour	Connector available with different led colour		



Industrial + M12/M8 connectors







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Technical drawing	1 > 4	1) 4	1) 4
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	4 <u>M12x1</u>	4 <u>M12x1</u>	4 <u>M12×1</u>
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	С	С	C
Part number	P2N02000C-12MD	P2N02DL1C-12MD	P2N02VL1C-12MD
Description	Adapter square industrial micro connector	Adapter square industrial micro connector	Adapter square industrial micro connector
	(form C) - M12 circular connector.	(form C) - M12 circular connector.	(form C) - M12 circular connector.
Contacts spacing	9.4mm	9.4mm	9.4mm
Number of contacts	2poles + 2P.E.	2poles + 2P.E.	2poles + 2P.E.
Earth positioning	H.6-12	H.6-12	H.6-12
Housing colour	Black	Black	Black
Housing height	21mm	21mm	21mm
Gasket type	Integrated NBR gasket	Integrated NBR gasket	Integrated NBR gasket
Circular connector type	M12	M12	M12
Technical data			
Rated voltage	60V AC/DC	24V DC	24V DC
Circuit type	-	Led + Diode(1A)	Bipolar Led + Varistor
Led colour		Red	Red
Central fixing screw	M3 L=21.5mm	M3 L=21.5mm	M3 L=21.5mm
Central fixing screw material	Iron+Zinc plated	Iron+Zinc plated	Iron+Zinc plated
Central screw torque	0.5 N*m	0.5 N*m	0.5 N*m
M12 Connector type	Straight 180°	Straight 180°	Straight 180°
M12 contacts type	Male 3poles	Male 3poles	Male 3poles
Number of contacts connected	n°3	n°3	n°3
Packaging			
Qty/Bag	1pc / bag	1pc / bag	1pc / bag
Other accessories options	ipe/ bay	τρογ μαθ	τρογ μαθ
See accessories section			
Notes:	Connector available with different circuits	Connector available with different led colour	Connector available with different led colour
		1	

**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 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.

 $\ensuremath{\text{STEP 5}}$  : You can change the pre-set values to whatever ranging from 0.5 min to 99 min. for the OFF time.

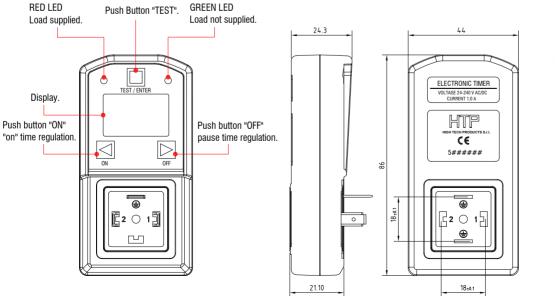
To change the OFF time simply press the 'off' button for 3 sec. and 'min' will start flashing on the right side of the display.

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	А
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	24V240V 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







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	o	250V 300V	00	-	Circuit without electronic components.	G1 - G1C G4 M1 M2 P1 P2	CG1 CM2 CGB CP1 CM1 CP2 CM1B CP2C
AC	~ 0 C 1+	10-230V	CR	-	Circuit with <b>Full-wave rectifier</b> to polarize the output current (DC) independently to input current type (AC) and <b>Condenser</b> to reduce the ripple on the output.	G1 G4 M1 M2	CG1 CM2* CGB CP1* CM1* CP2* CM1B* CP2C*
DC	+ 0 ( 1 ( 2	1-230V	DO	-	Circuit with <b>Diode</b> 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
	+ 0	12V	DG	Yellow	Circuit with <b>Diode</b> to give overvoltage protection	G1 - G1C G4	CG1 CM2
DC		24V 48V 115V 230V	DL	Red	when switching off supply and <b>unipolar</b> indicator <b>Led</b> to confirm voltage supply.	M1 M2	CGB CP1 CM1 CP2
			DV	Green	Must be respected the polarity direction.	P1 P2	CM1B CP2C
AC	~ 0-D - C 1 Z ~ 0	1-230V	E1	-	Circuit with <b>Half-wave rectifier</b> and <b>Diode</b> to give overvoltage protection when switching off supply.	G1 - G1C G4 M1 M2 P1 P2	CG1 CM2 CGB CP1 CM1 CP2 CM1B CP2C
AC		C1 12V 24V 48V 230V	EG EL	Yellow Red	Circuit with <b>Half-wave rectifier</b> + <b>Diode</b> to give overvoltage protection when switching off supply and <b>bipolar</b> indicator <b>Led</b> to confirm voltage supply.	G1 - G1C G4 M1 M2	CG1 CM2 CGB CP1* CM1 CP2*
	~ o ¥( 2		EV	Green			CM1B CP2C*
AC / DC		10-230V	FO	-	<b>RC decay circuit</b> to dissipate high energies generate by highly inductive loads.	G1 - G1C G4	CG1 CM2 CGB CP1* CM1 CP2* CM1B CP2C*
	<u>∽</u> +(1	12V	FG	Yellow	Yellow       RC decay circuit to dissipate high energies generate by highly inductive loads and bipolar indicator Led to confirm voltage supply.         Green       Green		CG1 CM2*
AC / DC		24V 48V 115V 230V	FL	Red		G1-G1C G4	CGB CP1* CM1* CP2*
			FV	Green			CM1B* CP2C*
AC / DC		12V 24V 48V 115V 230V	L8	Yellow	<b>Circuit with bipolar</b> indicator <b>Led</b> to confirm voltage supply. Circuit without protection components.	G1-G1C G4 M1 M2 P1 P2	CG1 CM2
			LO	Red			CGB CP1 CM1 CP2
			L9	Green			CM1B CP2C

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

**Circuits codification scheme** 



Input type	Wiring diagram	Rated voltage	Circuit code	Led colour	Circuit description	Product type field attachable	Product type with cable
	$\begin{array}{c} & & & & & & \\ \hline \\ RED \\ \hline \\ $	12V 24V 48V 115V 230V	L2	PIN 1:Green Circuit with n°1 bicolour indicator Led.			
AC / DC				PIN 2:Red	Circuit without protection components.	G1 - G1C G4	-
			L22L	Red	Circuit with n°2 bipolar indicator Leds. Circuit without protection components.		
AC / DC	o⊂ 1 ⊗ o⊂ 2	12V 24V 48V 115V 230V	PO	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	QO	PIN 2:Red PIN 3:Green	Circuit with <b>Bicolour Led</b> to show the position of the changeover contact (ex. pressure switches) and n°2 <b>Diodes</b> to give overvoltage protection when switching off supply. 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 <b>Bicolour Led</b> to show the position of the changeover contact (ex. pressure switches) and n°2 <b>Diodes</b> to give overvoltage protection when switching off supply. 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 <b>Bicolour Led</b> to show the position of the changeover contact (ex. pressure switches) and n°2 <b>Diodes</b> to give overvoltage protection when switching off supply. 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 <b>Bicolour Led</b> to show the position of the changeover contact (ex. pressure switches) and n°2 <b>Diodes</b> to give overvoltage protection when switching off supply. Must be respected the polarity direction.	G1 G4	CG1
DC		12V 24V 48V 115V 230V	Q8	PIN 2:Green PIN 3:Red	Circuit with <b>Bicolour Led</b> to show the position of the changeover contact (ex. pressure switches) and n°2 <b>Diodes</b> to give overvoltage protection when switching off supply. Must be respected the polarity direction.	G1 - G1C G4	CG1
AC	~ 0 C 1+	1-230V	RO	-	Circuit with <b>Full-wave rectifier</b> 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	~ ° C 1+	12V 24V 48V 115V 230V	RV	-	Circuit with <b>Full-wave rectifier</b> to polarize the output current (DC) independently to input current type (AC) and <b>Varistor</b> to give overvoltage protection when switching off supply.	G1 G4 M1 M2	CG1 CM2* CGB CP1* CM1* CP2* CM1B* CP2C*

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



Circuits codification scheme



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 <b>Full-wave rectifier</b> to polarize the output current (DC) independently to input current type (AC) and <b>unipolar</b> indicator <b>Led</b> to confirm voltage supply. Circuit without protection components.	G1 G4 M1 M2	CG1 CM2* CGB CP1* CM1* CP2* CM1B* CP2C*
~°(1+	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	12V 24V	RG	Yellow	Circuit with <b>Full-wave rectifier</b> to polarize the output current (DC) independently to input current type (AC) and <b>Varistor</b> to give overvoltage protection when switching off supply + <b>unipolar</b> indicator <b>Led</b> to confirm voltage supply.	G1 G4 M1 M2	CG1 CM2* CGB CP1*
AC	~ 0	48V 115V 230V	RL	Red			CM1* CP2* CM1B* CP2C*
DC	± 0	1-230V	SO	-	Circuit with <b>Half-wave rectifier</b> and <b>Diode</b> 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
		12V	SG	Yellow	Circuit with Half-wave rectifier and Diode to give overvoltage protection when switching off	G1 - G1C	CG1 CM2
DC		24V 48V	SL	Red	supply + unipolar indicator Led to confirm voltage supply.	G4 G4 M1 M2	CGB CP1* CM1 CP2*
		115V 230V	SV	Green	With AC it eliminates half a cycle.		CM1B CP2C*
	<u>o</u> €1	12V 24V 48V 115V 230V	TG	Yellow	Circuit with <b>Transient</b> suppressor(Transil) to give overvoltage protection when switching off supply. Circuit protection component indipendent of polarity direction.	G1 - G1C G4 M1 M2	CG1 CM2
AC / DC	¥ @		TL	Red			CGB CP1 CM1 CP2
			TV	Green			CM1B CP2C
AC / DC	o	12V 24V 48V 115V 230V	VO	-	Circuit with <b>Varistor</b> to give overvoltage protection when switching off supply. Circuit protection component indipendent 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	-	<b>Circuit with n°2 Varistors</b> to give overvoltage protection when switching off supply. Circuit protection component indipendent of polarity direction.	G1 - G1C G4	CG1 CGB CP1* CP2* CP2C*
	<ul> <li>→ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓</li></ul>		VG	Yellow	Circuit with <b>Varistor</b> to give overvoltage protection when switching off supply and <b>bipolar</b> indicator <b>Led</b> to confirm voltage supply.	G1-G1C G4 M1 M2	CG1 CM2
AC / DC		48V 48V 115V	VL	Red			CGB CP1 CM1 CP2
			VV	Green	Circuit protection component indipendent of polarity direction.	P1 P2	CM1B CP2C
AC / DC		12V 24V 48V 115V 230V	WL	PIN 1:Yellow PIN 2:Red	Circuit with <b>Bicolour Led</b> to show the position of the changeover contact (ex. pressure switches) and <b>n°2 Varistors</b> to give overvoltage protection when switching off supply. Circuit protection component indipendent of polarity direction.	G1-G1C G4	CG1 CGB CP1* CP2* CP2C*

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



### **VALVE CONNECTORS**



**Circuits codification scheme** 

Input type	Wiring diagram	Rated voltage	Circuit code	Led colour	Circuit description	<b>Product type</b> field attachable		ct type cable
AC / DC	o⊂⊂1 o⊂2	12V 24V 48V 115V 230V	Z2	-	Circuit with <b>n°2 Zener diodes</b> to give overvoltage protection when switching off supply. Circuit protection component indipendent of polarity direction.	G1 - G1C G4 M1 M2	CG1 CGB CM1 CM1B	CM2 CP1* CP2* CP2C*
	0	12V	ZG	Yellow	Circuit with <b>n°2 Zener diodes</b> to give overvoltage protection when switching off supply and	G1 - G1C	CG1	CM2
AC / DC		24V 48V 115V	ZL	Red	bipolar indicator Led to confirm voltage supply.	G4 M1	CGB CM1	CP1* CP2*
		230V	ZV	Green	Circuit protection component indipendent of polarity direction.	M2	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 avaible 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 avaible with case overmoulded on the cable.

TRA

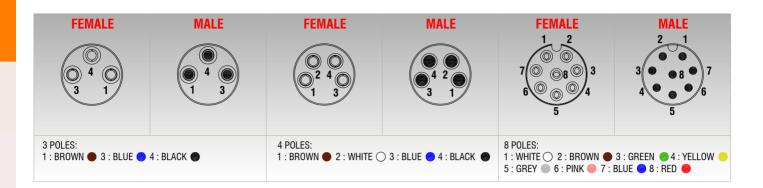


### Notes:


Ex nautoren



Field attachable connectors - General features and codification scheme



#### • GENERAL FEATURES OF FIELD ATTACHABLE CONNECTORS:

#### Cable Gland :

Plastic housing: Ø CABLE 3.5 - 5mm. Metal housing: Ø CABLE 3.5 - 5.5mm. SK : Ø CABLE 3.5 - 5.5mm.

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

Fixing system : M8 coupling nut.

Max. screw torque IEC60947-1 : Contact screw torque 0.1 N\*m. M8 coupling nut torque 0.2N\*m. ATEX M8 coupling nut torque 0.4N\*m. **Type of terminations :** Screw. Solder wires.

Contact material and treatment :

Brass + Gold flash. Housing material :

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

Brass+Nickel plated.

Internal core material : PA66 UL94-V2. PA66 UL94-V0 Atex approved. **Coupling nut material :** Brass + Nickel plated. Stainless steel AISI304(upon request). Stainless steel AISI316(upon request).

Flammability resistance :

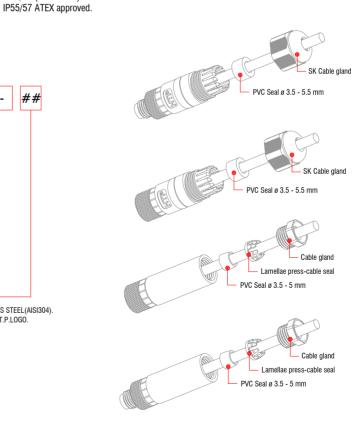
UL94-V0 - ATEX approved.

UL94-V2 - Standard

Protection class :

IP65/67 (assembled).

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



08 F С 3 000 S ## SERIES H 08 : M8 CIRCULAR CONNECTOR GENDER – F : FEMALE. M : MALE. HOUSING TYPE C : STRAIGHT PLASTIC HOUSING 180°. 1 : STRAIGHT METAL HOUSING 180°. NUMBERS OF POLES 3: 3POLES. 4: 4POLES. 8: 8POLES CABLE TYPE AND LENGTH 000 : WITHOUT CABLE. CONTACTS TYPE NO DIGIT : WITH SOLDER WIRES CONTACTS. S : WITH SCREW CONTACTS. SOME VARIABLES

 ATEX: ATEX conform.
 HN: HEXAGONAL M8 COUPLING NUT.
 INOX: M8 COUPLING NUT IN STAINLESS STEEL (AISI304).

 IN316: M8 COUPLING NUT IN STAINLESS STEEL (AISI316).
 SK: Cable gland SK style.
 Y: WITHOUT H.T.P.LOGO.

Field attachable connectors



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Technical drawing								
-			0 (1					1
SK style	o		o					
37.60	o( 4		o		o( i	÷	o(	3
MB 12			o				o(	4
	4	4	4 2	4 2	4	4	4 2	4 2
STD style 40.20	3 1	3	3, 1	3	3 1	3	3 1	3
+0.20	(63)	((63))	(63)	( <b>E</b> S)	(63)	((63))	(63)	(63)
		$\bigtriangledown$		$\checkmark$		$\checkmark$		$\checkmark$
Product description								
Connector type	Circular connecto	r field attachable	Circular connecto	r field attachable	Circular connector field attachable		Circular connector field attachab	
Conforms to	IEC 61076-2-104		IEC 61076-2-104		IEC 61076-2-104		IEC 61076-2-104	1
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-
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	E	SK PG7 model
ease guin					LAAYUIIAI OWI U	SK FG7 HIUUEI	Exagonal SW10	
Description	Circular connecto field attachable	r M8 series	Circular connector field attachable		Circular connector field attachable		Exagonal SW10 Circular connecto field attachable	
	Circular connecto	r M8 series	Circular connecto		Circular connecto		Circular connecto	
Description	Circular connecto field attachable	r M8 series	Circular connector field attachable		Circular connector field attachable		Circular connector field attachable	
Description Contacts type	Circular connecto field attachable Female	r M8 series	Circular connector field attachable Female		Circular connector field attachable Female		Circular connector field attachable Female	
Description Contacts type Number of contacts Housing colour	Circular connecto field attachable Female 3poles	r M8 series	Circular connecto field attachable Female 4poles		Circular connecto field attachable Female 3poles		Circular connecto field attachable Female 4poles	
Description Contacts type Number of contacts Housing colour <b>Technical data</b>	Circular connecto field attachable Female 3poles		Circular connecto field attachable Female 4poles	r M8 series	Circular connecto field attachable Female 3poles		Circular connecto field attachable Female 4poles	
Description Contacts type Number of contacts Housing colour	Circular connecto field attachable Female 3poles Black		Circular connecto field attachable Female 4poles Black	r M8 series	Circular connecto field attachable Female 3poles Black		Circular connecto field attachable Female 4poles Black	
Description Contacts type Number of contacts Housing colour <b>Technical data</b> Type of termination	Circular connecto field attachable Female 3poles Black Contacts to solde		Circular connecto field attachable Female 4poles Black	r M8 series	Circular connecto field attachable Female 3poles Black Screw contacts		Circular connecto field attachable Female 4poles Black Screw contacts	
Description Contacts type Number of contacts Housing colour Technical data Type of termination Contact screw torque Housing material	Circular connecto field attachable Female 3poles Black Contacts to solde -	r wires	Circular connecto field attachable Female 4poles Black Contacts to solder -	r M8 series	Circular connecto field attachable Female 3poles Black Screw contacts 0.1 N*m	r M8 series	Circular connector field attachable Female 4poles Black Screw contacts 0.1 N*m	or M8 series
Description Contacts type Number of contacts Housing colour Technical data Type of termination Contact screw torque	Circular connecto field attachable Female 3poles Black Contacts to solde - PA66 UL94-V2	r wires	Circular connecto field attachable Female 4poles Black Contacts to solder - PA66 UL94-V2	r M8 series	Circular connecto field attachable Female 3poles Black Screw contacts 0.1 N*m PA66 UL94-V2	r M8 series	Circular connector field attachable Female 4poles Black Screw contacts 0.1 N*m PA66 UL94-V2	or M8 series
Description Contacts type Number of contacts Housing colour Technical data Type of termination Contact screw torque Housing material Contacts material	Circular connecto field attachable Female 3poles Black Contacts to solde - PA66 UL94-V2 Brass+Gold flash	r wires	Circular connecto field attachable Female 4poles Black Contacts to solder - PA66 UL94-V2 Brass+Gold flash	r M8 series	Circular connecto field attachable Female 3poles Black Screw contacts 0.1 N*m PA66 UL94-V2 Brass + Gold flast	n M8 series	Circular connector field attachable Female 4poles Black Screw contacts 0.1 N*m PA66 UL94-V2 Brass + Gold flas	h
Description Contacts type Number of contacts Housing colour Technical data Type of termination Contact screw torque Housing material Contacts material Coupling nut type	Circular connecto field attachable Female 3poles Black Contacts to solde - PA66 UL94-V2 Brass + Gold flash Knurl round	r wires	Circular connecto field attachable Female 4poles Black Contacts to solder - PA66 UL94-V2 Brass+Gold flash Knurl round	r M8 series	Circular connector field attachable Female 3poles Black Screw contacts 0.1 N*m PA66 UL94-V2 Brass + Gold flast Knurl round	n M8 series	Circular connector field attachable Female 4poles Black Screw contacts 0.1 N*m PA66 UL94-V2 Brass + Gold flas Knurl round	h
Description Contacts type Number of contacts Housing colour Technical data Type of termination Contact screw torque Housing material Contacts material Coupling nut type M8 coupling nut material	Circular connecto field attachable Female 3poles Black Contacts to solde - PA66 UL94-V2 Brass + Gold flash Knurl round Brass + Nickel pla	r wires	Circular connecto field attachable Female 4poles Black Contacts to solder - PA66 UL94-V2 Brass + Gold flash Knurl round Brass + Nickel plat	r M8 series	Circular connecto field attachable Female 3poles Black Screw contacts 0.1 N*m PA66 UL94-V2 Brass + Gold flast Knurl round Brass + Nickel pla	n M8 series	Circular connector field attachable Female 4poles Black Screw contacts 0.1 N*m PA66 UL94-V2 Brass + Gold flas Knurl round Brass + Nickel pla	h
Description Contacts type Number of contacts Housing colour Technical data Type of termination Contact screw torque Housing material Contacts material Coupling nut type M8 coupling nut material M8 coupling nut torque	Circular connecto field attachable Female 3poles Black Contacts to solde - PA66 UL94-V2 Brass + Gold flash Knurl round Brass + Nickel pla 0.2 N*m	r wires	Circular connecto field attachable Female 4poles Black Contacts to solder - PA66 UL94-V2 Brass + Gold flash Knurl round Brass + Nickel plat 0.2 N*m	r M8 series	Circular connecto field attachable Female 3poles Black Screw contacts 0.1 N*m PA66 UL94-V2 Brass + Gold flast Knurl round Brass + Nickel pla 0.2 N*m	n M8 series	Circular connector field attachable Female 4poles Black Screw contacts 0.1 N*m PA66 UL94-V2 Brass + Gold flas Knurl round Brass + Nickel pla 0.2 N*m	h
Description Contacts type Number of contacts Housing colour Technical data Type of termination Contact screw torque Housing material Contacts material Coupling nut type M8 coupling nut material M8 coupling nut torque Rated voltage	Circular connecto field attachable Female 3poles Black Contacts to solde - PA66 UL94-V2 Brass + Gold flash Knurl round Brass + Nickel pla 0.2 N*m 50V AC/ 60V DC	r wires	Circular connecto field attachable Female 4poles Black Contacts to solder - PA66 UL94-V2 Brass+Gold flash Knurl round Brass+Nickel plat 0.2 N*m 50V AC/ 60V DC	r M8 series	Circular connecto field attachable Female 3poles Black Screw contacts 0.1 N*m PA66 UL94-V2 Brass + Gold flast Knurl round Brass + Nickel pla 0.2 N*m 50V AC/ 60V DC	n M8 series	Circular connector field attachable Female 4poles Black Screw contacts 0.1 N*m PA66 UL94-V2 Brass + Gold flas Knurl round Brass + Nickel pla 0.2 N*m 50V AC/ 60V DC	h
Description Contacts type Number of contacts Housing colour Technical data Type of termination Contact screw torque Housing material Contacts material Coupling nut type M8 coupling nut material M8 coupling nut torque Rated voltage Rated current	Circular connecto field attachable Female 3poles Black Contacts to solde - PA66 UL94-V2 Brass + Gold flash Knurl round Brass + Nickel pla 0.2 N*m 50V AC/ 60V DC 3A	r wires	Circular connecto field attachable Female 4poles Black Contacts to solder - PA66 UL94-V2 Brass+Gold flash Knurl round Brass+Nickel plat 0.2 N*m 50V AC/ 60V DC 3A	r M8 series	Circular connecto field attachable Female 3poles Black Screw contacts 0.1 N*m PA66 UL94-V2 Brass + Gold flast Knurl round Brass + Nickel pla 0.2 N*m 50V AC/ 60V DC 3A	n M8 series	Circular connector field attachable Female 4poles Black Screw contacts 0.1 N*m PA66 UL94-V2 Brass + Gold flas Knurl round Brass + Nickel pla 0.2 N*m 50V AC/ 60V DC 3A	h
Description Contacts type Number of contacts Housing colour Technical data Type of termination Contact screw torque Housing material Contacts material Coupling nut type M8 coupling nut material M8 coupling nut torque Rated voltage Rated current Temperature range	Circular connecto field attachable Female 3poles Black Contacts to solde - PA66 UL94-V2 Brass + Gold flash Knurl round Brass + Nickel pla 0.2 N*m 50V AC/ 60V DC 3A -40°C +90°C	r wires	Circular connecto field attachable Female 4poles Black Contacts to solder - PA66 UL94-V2 Brass + Gold flash Knurl round Brass + Nickel plat 0.2 N*m 50V AC/ 60V DC 3A -40°C +90°C	r M8 series	Circular connector field attachable Female 3poles Black Screw contacts 0.1 N*m PA66 UL94-V2 Brass + Gold flast Knurl round Brass + Nickel pla 0.2 N*m 50V AC/ 60V DC 3A -40°C +90°C	n M8 series	Circular connector field attachable Female 4poles Black Screw contacts 0.1 N*m PA66 UL94-V2 Brass + Gold flas Knurl round Brass + Nickel pla 0.2 N*m 50V AC/ 60V DC 3A -40°C + 90°C	h
Description Contacts type Number of contacts Housing colour Technical data Type of termination Contact screw torque Housing material Contacts material Coupling nut type M8 coupling nut material M8 coupling nut torque Rated voltage Rated voltage Rated current Temperature range O-ring material	Circular connecto field attachable Female 3poles Black Contacts to solde - PA66 UL94-V2 Brass + Gold flash Knurl round Brass + Nickel pla 0.2 N*m 50V AC/ 60V DC 3A -40°C +90°C NBR	r wires	Circular connecto field attachable Female 4poles Black Contacts to solder - PA66 UL94-V2 Brass + Gold flash Knurl round Brass + Nickel plat 0.2 N*m 50V AC/ 60V DC 3A -40°C +90°C NBR	r M8 series	Circular connecto field attachable Female 3poles Black Screw contacts 0.1 N*m PA66 UL94-V2 Brass + Gold flast Knurl round Brass + Nickel pla 0.2 N*m 50V AC/ 60V DC 3A -40°C +90°C NBR	nr M8 series	Circular connector field attachable Female 4poles Black Screw contacts 0.1 N*m PA66 UL94-V2 Brass + Gold flas Knurl round Brass + Nickel pla 0.2 N*m 50V AC/ 60V DC 3A -40°C +90°C NBR	h ated
Description Contacts type Number of contacts Housing colour Technical data Type of termination Contact screw torque Housing material Contacts material Coupling nut type M8 coupling nut material M8 coupling nut torque Rated voltage Rated voltage Rated current Temperature range O-ring material Suitable cable	Circular connecto field attachable Female 3poles Black Contacts to solde - PA66 UL94-V2 Brass + Gold flash Knurl round Brass + Nickel pla 0.2 N*m 50V AC/ 60V DC 3A -40°C +90°C NBR	r wires	Circular connecto field attachable Female 4poles Black Contacts to solder - PA66 UL94-V2 Brass + Gold flash Knurl round Brass + Nickel plat 0.2 N*m 50V AC/ 60V DC 3A -40°C +90°C NBR	r M8 series	Circular connecto field attachable Female 3poles Black Screw contacts 0.1 N*m PA66 UL94-V2 Brass + Gold flast Knurl round Brass + Nickel pla 0.2 N*m 50V AC/ 60V DC 3A -40°C +90°C NBR	nr M8 series	Circular connector field attachable Female 4poles Black Screw contacts 0.1 N*m PA66 UL94-V2 Brass + Gold flas Knurl round Brass + Nickel pla 0.2 N*m 50V AC/ 60V DC 3A -40°C +90°C NBR	h ated
Description Contacts type Number of contacts Housing colour Technical data Type of termination Contact screw torque Housing material Contacts material Coupling nut type M8 coupling nut material M8 coupling nut torque Rated voltage Rated voltage Rated current Temperature range O-ring material Suitable cable Packaging	Circular connecto field attachable Female 3poles Black Contacts to solde - PA66 UL94-V2 Brass + Gold flash Knurl round Brass + Nickel pla 0.2 N*m 50V AC/ 60V DC 3A -40°C +90°C NBR Ø 3.5 - 5mm	r wires	Circular connecto field attachable Female 4poles Black Contacts to solder - PA66 UL94-V2 Brass + Gold flash Knurl round Brass + Nickel plat 0.2 N*m 50V AC/ 60V DC 3A -40°C +90°C NBR Ø 3.5 - 5mm	r M8 series	Circular connecto field attachable Female 3poles Black Screw contacts 0.1 N*m PA66 UL94-V2 Brass + Gold flast Knurl round Brass + Nickel pla 0.2 N*m 50V AC/ 60V DC 3A -40°C +90°C NBR Ø 3.5 - 5mm	nr M8 series	Circular connector field attachable Female 4poles Black Screw contacts 0.1 N*m PA66 UL94-V2 Brass + Gold flas Knurl round Brass + Nickel pla 0.2 N*m 50V AC/ 60V DC 3A -40°C + 90°C NBR Ø 3.5 - 5mm	h ated

Field attachable connectors

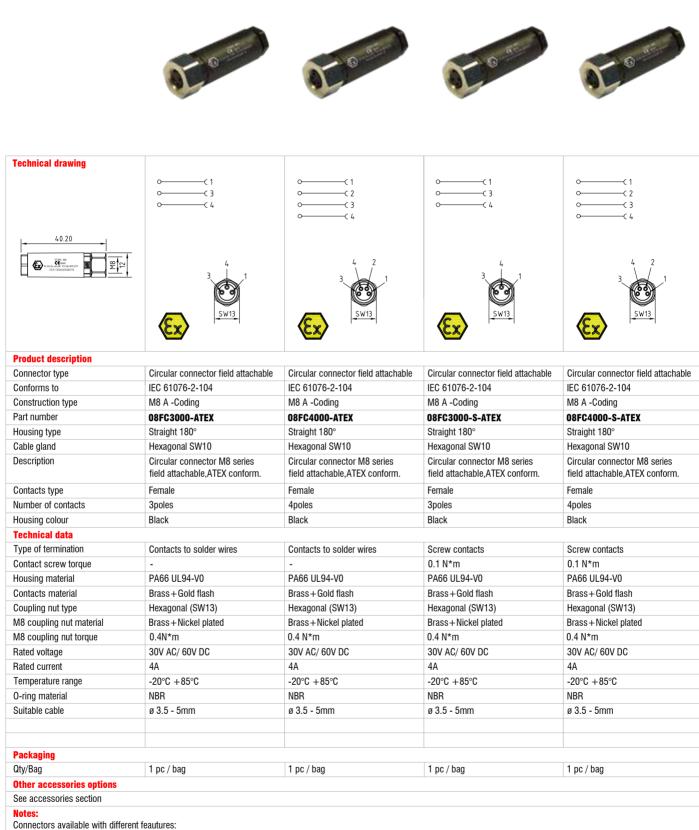


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Technical drawing	0	1	~	<b>=</b> 1	0	11	~	<b>59</b> 1
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STD style			1 3				1 3	1 2 4
Product description								
Connector type	Circular connecto	or field attachable	Circular connecto	r field attachable	Circular connect	or field attachable	Circular connect	tor field attachable
Conforms to	IEC 61076-2-104		IEC 61076-2-104		IEC 61076-2-104	4	IEC 61076-2-10	4
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-SH	08MC4000-S	08MC4000-S-S
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 field attachable	or M8 series	Circular connecto field attachable	r M8 series	Circular connect field attachable	or M8 series	Circular connect field attachable	tor M8 series
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 solde	er wires	Contacts to solde	r 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 flas	1	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 pla	ited	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			1					
	1 pc / bag		1 pc / bag		1 pc / bag		1 pc / bag	
Packaging Qty/Bag Other accessories options	1 pc / bag		1 pc / bag		1 pc / bag		1 pc / bag	

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

Field attachable connectors





See the general features and codification scheme page



Field attachable connectors

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	SW13	SW13	SW13	SW13
roduct description	1			
onnector type	Circular connector field attachable	Circular connector field attachable	Circular connector field attachable	Circular connector field attachab
onforms to	IEC 61076-2-104	IEC 61076-2-104	IEC 61076-2-104	IEC 61076-2-104
onstruction type	M8 A -Coding	M8 A -Coding	M8 A -Coding	M8 A -Coding
art number	08MC3000-ATEX	08MC4000-ATEX	08MC3000-S-ATEX	08MC4000-S-ATEX
ousing type	Straight 180°	Straight 180°	Straight 180°	Straight 180°
able gland	Hexagonal SW10	Hexagonal SW10	Hexagonal SW10	Hexagonal SW10
escription	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.
ontacts type	Male	Male	Male	Male
umber of contacts	3poles	4poles	3poles	4poles
ousing colour	Black	Black	Black	Black
echnical data				
ype of termination	Contacts to solder wires	Contacts to solder wires	Screw contacts	Screw contacts
ontact screw torque	-	-	0.1 N*m	0.1 N*m
ousing material	PA66 UL94-V0	PA66 UL94-V0	PA66 UL94-V0	PA66 UL94-V0
ontacts material	Brass+Gold flash	Brass+Gold flash	Brass+Gold flash	Brass+Gold flash
oupling nut type	Hexagonal (SW13)	Hexagonal (SW13)	Hexagonal (SW13)	Hexagonal (SW13)
18 coupling nut material	Brass+Nickel plated	Brass+Nickel plated	Brass+Nickel plated	Brass+Nickel plated
18 coupling nut torque	0.4 N*m	0.4 N*m	0.4 N*m	0.4 N*m
ated voltage	30V AC/ 60V DC	30V AC/ 60V DC	30V AC/ 60V DC	30V AC/ 60V DC
ated current	4A	4A	4A	4A
emperature range	-20°C +85°C	-20°C +85°C	-20°C +85°C	-20°C +85°C
-ring material	NBR	NBR	NBR	NBR
uitable cable	ø 3.5 - 5mm	ø 3.5 - 5mm	ø 3.5 - 5mm	ø 3.5 - 5mm
l <b>ackaging</b> Ity/Bag	1 pc / bag	1 pc / bag	1 pc / bag	1 pc / bag
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ther accessories options				
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See the general features and codification scheme page

Field attachable connectors



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Technical drawing				
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Product description				
Connector type	Circular connector field attachable	Circular connector field attachable	Circular connector field attachable	Circular connector field attachat
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	Circular connector M8 series field	Circular connector M8 series field	Circular connector M8 series fiel
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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				
<b>Packaging</b> Qty/Bag	1 pc / bag	1 pc / bag	1 pc / bag	1 pc / bag
	1 pc / bag	1 pc / bag	1 pc / bag	1 pc / bag

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



Moulded cable connectors - General features and codification scheme

#### • GENERAL FEATURES OF MOULDED CONNECTORS:

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

Fixing system : M8 coupling nut.

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

Type of terminations : Crimped wires.

Contact material and treatment : Brass + Gold flash.

Housing material : Polyurethane.

Internal core material :

Coupling nut material :

Brass+Nickel plated.

Protection class :

IP 67/IP69K.

PA66.

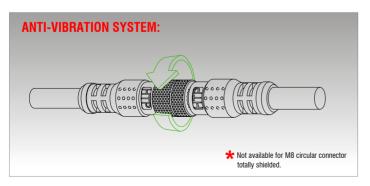
Stainless steel AISI304(upon request). Stainless steel AISI316(upon request).

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

08 F D 3 A 1Z 08 M D - ##
SERIES 08 : M8 CIRCULAR CONNECTOR
GENDER F: FEMALE M: MALE
CONNECTOR TYPE A : ANGLED 90°. D : STRAIGHT 180°. E : ANGLED 90° WITH 2 LED NPN. F : ANGLED 90° WITH 2 LED NPN. H : STRAIGHT 180° WITH 2 LED NPN. H : STRAIGHT 180° WITH 2 LED NPN. H : STRAIGHT 180° WITH 3 LED NPN. J : STRAIGHT 180° TOTALLY SHIELDED. V : ANGLED 90° TOTALLY SHIELDED. W : STRAIGHT 180° TOTALLY SHIELDED. W : STRAIGHT 180° SNAP. Y : ANGLED 90° SNAP.
3:3POLES 4:4POLES 8:8POLES
CABLE TYPE SEE CABLES FEATURES PAGE ##
CABLE LENGTH
$\begin{array}{llllllllllllllllllllllllllllllllllll$
EXTENSION
SPECIFY OTHER CONNECTOR'S SIDE

#### SOME VARIABLES

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



Moulded cable connectors



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M8×1 ø10				$\square$	6 / 8	4
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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 cable	M8 series with moulded	Circular connector M8 series with moulded cable		Circular connector cable	M8 series with moulded
Part number	08FD3A1Z	08FA3A1Z	08FD4A1Z	08FA4A1Z	08FD8K1Z	08FA8K1Z
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		8poles	
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 plate	ed	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	
	NBR		NBR		NBR	
	PVC/PVC CEI2022		PVC/PVC CEI2022		PVC/PVC CEI2022	
O-ring material			Black		Black	
O-ring material Cable type	Black		4x0.25mm <sup>2</sup>		8x0.14mm <sup>2</sup>	
O-ring material Cable type Cable jacket colour				4x0.25mm <sup>2</sup> Brown; White; Blue; Black		n;Yellow;Grev;Pink:Blue:R
O-ring material Cable type Cable jacket colour No.Conductors / Section	3x0.25mm <sup>2</sup>				White;Brown;Green;Yellow;Grey;Pink;Blue;	
O-ring material Cable type Cable jacket colour No.Conductors / Section Conductor colours	3x0.25mm <sup>2</sup> Brown; Blue; Black			, DIACK		
O-ring material Cable type Cable jacket colour No.Conductors / Section Conductor colours Cable diameter	3x0.25mm <sup>2</sup>		Brown; White; Blue ø4.4mm (±0.3) 1m		ø4.9mm (±0.3) 1m	· · · · · · ·
O-ring material Cable type Cable jacket colour No.Conductors / Section Conductor colours Cable diameter Cable length	3x0.25mm <sup>2</sup> Brown; Blue; Black ø4mm (±0.3)		ø4.4mm (±0.3)	, Diack	ø4.9mm (±0.3)	
O-ring material Cable type Cable jacket colour No.Conductors / Section Conductor colours Cable diameter Cable length Packaging	3x0.25mm <sup>2</sup> Brown; Blue; Black ø4mm (±0.3) 1m		ø4.4mm (±0.3) 1m	, DIAUN	ø4.9mm (±0.3) 1m	
O-ring material Cable type Cable jacket colour No.Conductors / Section Conductor colours Cable diameter Cable length Packaging Qty/Bag Other accessories options	3x0.25mm <sup>2</sup> Brown; Blue; Black ø4mm (±0.3)		ø4.4mm (±0.3)	, Diaux	ø4.9mm (±0.3)	

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



Moulded cable connectors

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Product description	n							
Circular connector w		Circular connector wit	h moulded cable	Circular connector wit	h 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 M	18 series n.2 Led <b>PNP</b> V4:YE)with moulded cable	Circular connector M8 series n.2 Led PNP		Circular connector M8 series n.2 Led <b>NPN</b> circuit (PIN3: GN;PIN4:YE)with moulded cable		Circular connector M8 series n.2 Led <b>NPN</b> circuit (PIN3: GN;PIN4:YE)with moulded cal		
08FG3A1Z	08FF3A1Z	08FG4A1Z	08FF4A1Z	08FH3A1Z 08FE3A1Z		08FH4A1Z 08FE4A1Z		
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		
3poles				3poles		4poles		
Transparent				Transparent		Transparent		
Technical data								
Contacts to solder P	СВ	Contacts to solder PCI	3	Contacts to solder PCI	3	Contacts to solder PCI	В	
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		
10-30V DC				10-30V DC		10-30V DC		
3A		3A		3A		3A		
NBR		NBR		NBR		NBR		
PVC/PVC CEI2022		PVC/PVC CEI2022		PVC/PVC CEI2022		PVC/PVC CEI2022		
Black		Black		Black		Black		
3x0.25mm <sup>2</sup>		4x0.25mm <sup>2</sup>		3x0.25mm <sup>2</sup>		4x0.25mm <sup>2</sup>		
Brown; Blue; Black		Brown; White; Blue; Bl	ack	Brown; Blue; Black		Brown; White; Blue; Bl	ack	
ø4mm (±0.3)		ø4.4mm (±0.3)		ø4mm (±0.3)		ø4.4mm (±0.3)		
1m		1m		1m		1m		
Packaging								
1 pc / bag		1 pc / bag		1 pc / bag		1 pc / bag		
Other accessories								
See accessories sec	tion							
Notes:	a with different feautureau							

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

Moulded cable connectors



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M8×1 ø10	c <b>(ŸL)</b> us		c(YL)us		
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Product description					
Connector type	Circular connector w	th moulded cable	Circular connector w	vith moulded cable	
Conforms to	IEC 61076-2-104 / U	L approved	IEC 61076-2-104 / L	JL approved	
Construction type	M8 A -Coding		M8 A -Coding		
Description	Circular connector M with moulded cable	8 series,UL approved	Circular connector M8 series,UL approved with moulded cable		
Part number	08FD3C1Z-K6-UL	08FA3C1Z-K6-UL	08FD4D1Z-K6-UL	08FA4D1Z-K6-UL	
Housing type	Straight 180°	Angled 90°	Straight 180°	Angled 90°	
Cable gland	Moulded cable		Moulded cable		
Contacts type	Female		Female		
Number of contacts	3poles		4poles		
lousing colour	Black		Black		
Technical data					
Гуре of termination	Contacts to crimp with	es	Contacts to crimp wi	ires	
Contacts material	Brass+Gold flash		Brass+Gold flash		
Coupling nut type	Knurl round		Knurl round		
VI8 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		
D-ring material	NBR		NBR		
Cable type	PUR/TPO ULstyle 21	076 HIGH FLEX	PUR/TPO ULstyle 21	576 HIGH FLEX	
Cable jacket colour	Black		Black	2)	
Vo.Conductors / Section	3xAWG24 (0.25mm <sup>2</sup> )	)	4xAWG22 (0.34mm <sup>2</sup>		
Conductor colours	Brown; Blue; Black		Brown; White; Blue;	ыаск	
Cable diameter	ø4.1mm (±0.3)		ø4.8mm (±0.3)		
	1m		1m		
Cable length			4		
Cable length Packaging	1 nc / hag				
Cable length <mark>Packaging</mark> 2ty/Bag	1 pc / bag		1 pc / bag		
Cable diameter Cable length Packaging Dty/Bag Dther accessories options See accessories section	1 pc / bag		T pc / bag		

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Moulded cable connectors

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Technical drawing		• • •	
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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	08MD3C1Z-K6-UL 08MA3C1Z-K6-UL	08MD4D1Z-K6-UL 08MA4D1Z-K6-UL	
lousing type	Straight 180° Angled 90°	Straight 180° Angled 90°	
able gland	Moulded cable	Moulded cable	
ontacts type	Male	Male	
lumber of contacts	3poles	4poles	
ousing colour	Black	Black	
echnical data			
ype of termination	Contacts to crimp wires	Contacts to crimp wires	
ontacts material	Brass+Gold flash	Brass+Gold flash	
oupling nut type	Knurl round	Knurl round	
18 coupling nut material	Brass+Nickel plated	Brass+Nickel plated	
18 coupling nut torque	0.2 N*m	0.2 N*m	
ated voltage	50V AC/ 60V DC	50V AC/ 60V DC	
lated current	3A	3A	
)-ring material			
cable type cable jacket colour	PUR/TPO ULstyle 21576 HIGH FLEX	PUR/TPO ULstyle 21576 HIGH FLEX	
Jable Jacket colour lo.Conductors / Section	Black 3xAWG24 (0.25mm <sup>2</sup> )	Black 4xAWG22 (0.34mm <sup>2</sup> )	
Conductor colours	Brown; Blue; Black	Brown; White; Blue; Black	
able diameter	ø4.1mm (±0.3)	ø4.8mm (±0.3)	
Sable length	1m	1m	
ackaging			
rackaging Dty/Bag	Variable according cable length.	Variable according cable length.	
Ither accessories options	. anabio according bable longin.	· and the decording out to forgui.	
See accessories section			
Notes:			
Connectors available with different feauture See the general features and codification s See the cables list section	es: cheme page		

Moulded cable connectors



	and -		-			
		States -	6-X	No.		No.
Technical drawing	• • • • • • • • • • • • • • • • • • •					
Product description					358	
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		M8 series with moulded	Circular connector M8 series with moulded cable		-	M8 series with moulded
Part number	08MD3A1Z	08MA3A1Z	08MD4A1Z	08MA4A1Z	08MD8K1Z	08MA8K1Z
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		8poles	
Housing colour	Black		Black		Black	
Technical data						
Type of termination	Contacts to crimp v	vires	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 plate	d	Brass+Nickel plated		Brass+Nickel plated	
M8 coupling nut torque	0.2 N*m		0.2 N*m		0.2 N*m	
Rated voltage	50V AC/ 60V DC		50V AC/ 60V DC		30V AC/DC	
Rated current	3A		3A		1.5A	
O-ring material	-		-		-	
Cable type	PVC/PVC CEI2022		PVC/PVC CEI2022		PVC/PVC CEI2022	
Cable jacket colour	Black		Black		Black	
No.Conductors / Section	3x0.25mm <sup>2</sup>		4x0.25mm <sup>2</sup>		8x0.14mm <sup>2</sup>	
Conductor colours	Brown; Blue; Black		Brown; White; Blue;	Black		;Yellow;Grey;Pink;Blue;Re
Cable diameter	ø4mm (±0.3)		ø4.4mm (±0.3)		ø4.9mm (±0.3)	
Cable length	1m		1m		1m	
Oabic icityui	1m					
Packaging	1 nc / hag		1 nc / hag		1 nc / hag	
	1 pc / bag		1 pc / bag		1 pc / bag	

See the general features and codification scheme page See the cables list section



Moulded cable connectors

	- Lon		Line		2100		2400
Product descriptio Circular connector w IEC 61076-2-104 M8 A -Coding		Circular connector wit IEC 61076-2-104 M8 A -Coding	h moulded cable	Circular connector wi IEC 61076-2-104 M8 A -Coding	th moulded cable	Circular connector wi IEC 61076-2-104 M8 A -Coding	th moulded cable
Circular connector M	18 series n.2 Led <b>PNP</b> V4:YE)with moulded cable	Circular connector M8	series n.2 Led <b>PNP</b> I:YE)with moulded cable	Circular connector M8	8 series n.2 Led <b>NPN</b> 4:YE)with moulded cable	Circular connector M8	3 series n.2 Led <b>NPN</b> 4:YE)with moulded cable
08MG3A1Z	08MF3A1Z	08MG4A1Z	08MF4A1Z	08MH3A1Z	08ME3A1Z	08MH4A1Z	08ME4A1Z
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	
3poles		4poles				4poles	
Transparent		Transparent				Transparent	
Technical data		•		·		·	
Contacts to solder P	СВ	Contacts to solder PC	В	Contacts to solder PC	B	Contacts to solder PC	В
Brass+Gold flash		Brass+Gold flash		Brass+Gold flash		Brass+Gold flash	
Knurl round		Knurl round		Knurl round Knurl round		Knurl round	
Brass+Nickel plated				Brass+Nickel plated		Brass+Nickel plated	
0.2 N*m		0.2 N*m		0.2 N*m		0.2 N*m	
10-30V DC		10-30V DC		10-30V DC		10-30V DC	
3A		3A		3A		3A	
-		-		-		-	
PVC/PVC CEI2022		PVC/PVC CEI2022		PVC/PVC CEI2022		PVC/PVC CEI2022	
Black		Black		Black		Black	
3x0.25mm <sup>2</sup>		4x0.25mm <sup>2</sup>		3x0.25mm <sup>2</sup>		4x0.25mm <sup>2</sup>	
Brown; Blue; Black		Brown; White; Blue; Bl	ack	Brown; Blue; Black		Brown; White; Blue; B	lack
ø4mm (±0.3)		ø4.4mm (±0.3)		ø4mm (±0.3)		ø4.4mm (±0.3)	
1m		1m		1m		1m	
Packaging							
1 pc / bag		1 pc / bag		1 pc / bag		1 pc / bag	
Other accessories	options						
See accessories sec	tion						
Notes:	with different feautures:						

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

Moulded cable connectors



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Fechnical drawing		•	^	<b>~</b>	
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	(63)				
		$\square$		$\neg \neg$	
Product description					
Connector type	Circular connector wi	ith moulded cable	Circular connector	with moulded cable	
Conforms to	IEC 61076-2-104		IEC 61076-2-104		
Construction type	M8 A -Coding		M8 A -Coding		
Description	Circular connector M SHIELDED connector		Circular connector M8 series TOTALLY SHIELDED connector with moulded cable		
Part number	08FJ3J1Z	08FV3J1Z	08FJ4J1Z	08FV4J1Z	
Housing type	Straight 180°	Angled 90°	Straight 180°	Angled 90°	
Cable gland	Moulded cable	/giou oo	Moulded cable	/ ligita de	
Contacts type	Female		Female		
Number of contacts	3poles		4poles		
Housing colour	Black		Black		
Technical data	Diatit		Diaon		
Type of termination	Contacts to crimp wir	ĩes	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		-
0-ring material	NBR		NBR		-
Cable type	PVC/PVC CEI2022 SH	HIELDED	PVC/PVC CEI2022	SHIELDED	
Cable jacket colour	Black		Black		
	3x0.25mm <sup>2</sup>		4x0.25mm <sup>2</sup>		
No.Conductors / Section	Brown; Blue; Black		Brown; White; Blue	; Black	
No.Conductors / Section Conductor colours	ø4.4mm (±0.3)		ø4.8mm (±0.3)		
			1m		
Conductor colours	1m		1		
Conductor colours Cable diameter Cable length	1m				
Conductor colours Cable diameter	1m 1 pc / bag		1 pc / bag		
Conductor colours Cable diameter Cable length <b>Packaging</b>			1 pc / bag		



Moulded cable connectors

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Product description					
Connector type	Circular connector w	ith moulded cable	Circular connector with moulded cable		
Conforms to	IEC 61076-2-104		IEC 61076-2-104		
Construction type	M8 A -Coding		M8 A -Coding		
Description	Circular connector M SHIELDED connector			M8 series TOTALLY tor with moulded cable	
Part number	08MJ3J1Z	08MV3J1Z	08MJ4J1Z	08MV4J1Z	
lousing type	Straight 180°	Angled 90°	Straight 180°	Angled 90°	
Cable gland	Moulded cable		Moulded cable		
Contacts type	Male		Male		
lumber of contacts	3poles		4poles		
lousing colour	Black		Black		
lechnical data					
Type of termination	Contacts to crimp wi	res	Contacts to crimp	wires	
Contacts material	Brass+Gold flash		Brass+Gold flash		
Coupling nut type	Knurl round		Knurl round		
18 coupling nut material	Brass+Nickel plated		Brass+Nickel plate	ed	
//8 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		
D-ring material	-		-		
Cable type	PVC/PVC CEI2022 SI		PVC/PVC CEI2022	SHIFL DED	
Cable jacket colour	Black		Black		
No.Conductors / Section	3x0.25mm <sup>2</sup>		4x0.25mm <sup>2</sup>		
Conductor colours	Brown; Blue; Black			a: Black	
Cable diameter			Brown; White; Blue	, υιαυκ	
	ø4.4mm (±0.3)		ø4.8mm (±0.3)		
Cable length	1m		1m		
Packaging	1 no / hos		1 no / hor		
Qty/Bag	1 pc / bag		1 pc / bag		
Other accessories options					
See accessories section					
<b>Votes:</b> Connectors available with different feautures See the general features and codification sc	: heme nade				

Moulded cable connectors



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Technical drawing	●1>──■ ●3>──■	I1● I3●	●1>	∎1 ●	01>	■ 1 O
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Product description				,	1 0	
Connector type	Circular connector w	vith moulded cable	Circular connector with moulded cable		Circular connector w	vith 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		18 series with moulded	-	18 series with moulded		18 series with moulded
	cable		cable		cable	
<b>N</b>	08FD3A1Z08MD	08FA3A1Z08MA	08FD4A1Z08MD	08FA4A1Z08MA	08FD8K1Z08MD	08FA8K1Z08MA
Part number						
	Straight 180°	Angled 90°	Straight 180°	Angled 90°	Straight 180°	Angled 90°
Part number Housing type Cable gland	Straight 180° Moulded cable	Angled 90°	Straight 180° Moulded cable	Angled 90°	Straight 180° Moulded cable	Angled 90°
Housing type Cable gland		Angled 90°		Angled 90°	-	Angled 90°
Housing type	Moulded cable	Angled 90°	Moulded cable	Angled 90°	Moulded cable	Angled 90°
Housing type Cable gland Contacts type Number of contacts	Moulded cable Female-Male	Angled 90°	Moulded cable Female-Male	Angled 90°	Moulded cable Female-Male	Angled 90°
Housing type Cable gland Contacts type Number of contacts Housing colour	Moulded cable Female-Male 3poles	Angled 90°	Moulded cable Female-Male 4poles	Angled 90°	Moulded cable Female-Male 8poles	Angled 90°
Housing type Cable gland Contacts type Number of contacts Housing colour <b>Technical data</b>	Moulded cable Female-Male 3poles Black		Moulded cable Female-Male 4poles Black		Moulded cable Female-Male 8poles	
Housing type Cable gland Contacts type Number of contacts Housing colour	Moulded cable Female-Male 3poles		Moulded cable Female-Male 4poles		Moulded cable Female-Male 8poles Black	
Housing type Cable gland Contacts type Number of contacts Housing colour Technical data Type of termination Contacts material	Moulded cable Female-Male 3poles Black Contacts to crimp w Brass + Gold flash		Moulded cable Female-Male 4poles Black Contacts to crimp wi Brass + Gold flash		Moulded cable Female-Male 8poles Black Contacts to solder w Brass + Gold flash	
Housing type Cable gland Contacts type Number of contacts Housing colour Technical data Type of termination Contacts material Coupling nut type	Moulded cable Female-Male 3poles Black Contacts to crimp w Brass + Gold flash Knurl round	ires	Moulded cable Female-Male 4poles Black Contacts to crimp wi Brass + Gold flash Knurl round	res	Moulded cable Female-Male 8poles Black Contacts to solder w Brass + Gold flash Knurl round	ires
Housing type Cable gland Contacts type Number of contacts Housing colour Technical data Type of termination Contacts material Coupling nut type M8 coupling nut material	Moulded cable Female-Male 3poles Black Contacts to crimp w Brass + Gold flash	ires	Moulded cable Female-Male 4poles Black Contacts to crimp wi Brass + Gold flash	res	Moulded cable Female-Male 8poles Black Contacts to solder w Brass + Gold flash Knurl round Brass + Nickel plated	ires
Housing type Cable gland Contacts type Number of contacts Housing colour Technical data Type of termination Contacts material Coupling nut type M8 coupling nut material M8 coupling nut torque	Moulded cable Female-Male 3poles Black Contacts to crimp w Brass + Gold flash Knurl round Brass + Nickel plated 0.2 N*m	ires	Moulded cable Female-Male 4poles Black Contacts to crimp wi Brass + Gold flash Knurl round Brass + Nickel plated 0.2 N*m	res	Moulded cable Female-Male 8poles Black Contacts to solder w Brass + Gold flash Knurl round Brass + Nickel plated 0.2 N*m	vires
Housing type Cable gland Contacts type Number of contacts Housing colour Technical data Type of termination Contacts material Coupling nut type M8 coupling nut material M8 coupling nut torque Rated voltage	Moulded cable Female-Male 3poles Black Contacts to crimp w Brass + Gold flash Knurl round Brass + Nickel plated 0.2 N*m 50V AC/ 60V DC	ires	Moulded cable Female-Male 4poles Black Contacts to crimp wi Brass + Gold flash Knurl round Brass + Nickel plated 0.2 N*m 50V AC/ 60V DC	res	Moulded cable Female-Male 8poles Black Contacts to solder w Brass + Gold flash Knurl round Brass + Nickel plated 0.2 N*m 30V AC/DC	vires
Housing type Cable gland Contacts type Number of contacts Housing colour Technical data Type of termination Contacts material Coupling nut type M8 coupling nut material M8 coupling nut torque Rated voltage Rated current	Moulded cable Female-Male 3poles Black Contacts to crimp w Brass + Gold flash Knurl round Brass + Nickel plated 0.2 N*m	ires	Moulded cable Female-Male 4poles Black Contacts to crimp wi Brass + Gold flash Knurl round Brass + Nickel plated 0.2 N*m	res	Moulded cable Female-Male 8poles Black Contacts to solder w Brass + Gold flash Knurl round Brass + Nickel plated 0.2 N*m	ires
Housing type Cable gland Contacts type Number of contacts Housing colour <b>Technical data</b> Type of termination Contacts material Coupling nut type M8 coupling nut material M8 coupling nut torque Rated voltage Rated current O-ring material	Moulded cable Female-Male 3poles Black Contacts to crimp w Brass + Gold flash Knurl round Brass + Nickel plated 0.2 N*m 50V AC/ 60V DC 3A NBR	ires	Moulded cable Female-Male 4poles Black Contacts to crimp wi Brass + Gold flash Knurl round Brass + Nickel plated 0.2 N*m 50V AC/ 60V DC 3A NBR	res	Moulded cable Female-Male 8poles Black Contacts to solder w Brass + Gold flash Knurl round Brass + Nickel plated 0.2 N*m 30V AC/DC 1.5A NBR	ires
Housing type Cable gland Contacts type Number of contacts Housing colour <b>Technical data</b> Type of termination Contacts material Coupling nut type M8 coupling nut material M8 coupling nut torque Rated voltage Rated current O-ring material Cable type	Moulded cable Female-Male 3poles Black Contacts to crimp w Brass + Gold flash Knurl round Brass + Nickel plated 0.2 N*m 50V AC/ 60V DC 3A NBR PVC/PVC CEI2022	ires	Moulded cable Female-Male 4poles Black Contacts to crimp wi Brass + Gold flash Knurl round Brass + Nickel plated 0.2 N*m 50V AC/ 60V DC 3A NBR PVC/PVC CEI2022	res	Moulded cable Female-Male 8poles Black Contacts to solder w Brass + Gold flash Knurl round Brass + Nickel plated 0.2 N*m 30V AC/DC 1.5A NBR PVC/PVC CEI2022	ires
Housing type Cable gland Contacts type Number of contacts Housing colour <b>Technical data</b> Type of termination Contacts material Coupling nut type M8 coupling nut material M8 coupling nut torque Rated voltage Rated voltage Rated current O-ring material Cable type Cable jacket colour	Moulded cable Female-Male 3poles Black Contacts to crimp w Brass + Gold flash Knurl round Brass + Nickel plated 0.2 N*m 50V AC/ 60V DC 3A NBR	ires	Moulded cable Female-Male 4poles Black Contacts to crimp wi Brass + Gold flash Knurl round Brass + Nickel plated 0.2 N*m 50V AC/ 60V DC 3A NBR	res	Moulded cable Female-Male 8poles Black Contacts to solder w Brass + Gold flash Knurl round Brass + Nickel plated 0.2 N*m 30V AC/DC 1.5A NBR	ires
Housing type Cable gland Contacts type Number of contacts Housing colour Technical data Type of termination Contacts material Coupling nut type M8 coupling nut material M8 coupling nut torque Rated voltage Rated voltage Rated current O-ring material Coble type Cable jacket colour No.Conductors / Section	Moulded cable Female-Male 3poles Black Contacts to crimp w Brass + Gold flash Knurl round Brass + Nickel plated 0.2 N*m 50V AC/ 60V DC 3A NBR PVC/PVC CEI2022 Black	ires	Moulded cable Female-Male 4poles Black Contacts to crimp wi Brass + Gold flash Knurl round Brass + Nickel plated 0.2 N*m 50V AC/ 60V DC 3A NBR PVC/PVC CEI2022 Black	res	Moulded cable Female-Male 8poles Black Contacts to solder w Brass + Gold flash Knurl round Brass + Nickel plated 0.2 N*m 30V AC/DC 1.5A NBR PVC/PVC CEI2022 Black 8x0.14mm <sup>2</sup>	ires
Housing type Cable gland Contacts type Number of contacts Housing colour Technical data Type of termination Contacts material Coupling nut type M8 coupling nut material M8 coupling nut torque Rated voltage Rated voltage Rated voltage Cable type Cable jacket colour No.Conductors / Section Conductor colours	Moulded cable Female-Male 3poles Black Contacts to crimp w Brass + Gold flash Knurl round Brass + Nickel plated 0.2 N*m 50V AC/ 60V DC 3A NBR PVC/PVC CEI2022 Black 3x0.25mm <sup>2</sup>	ires	Moulded cable Female-Male 4poles Black Contacts to crimp wi Brass + Gold flash Knurl round Brass + Nickel plated 0.2 N*m 50V AC/ 60V DC 3A NBR PVC/PVC CEI2022 Black 4x0.25mm <sup>2</sup> Brown; White; Blue; B	res	Moulded cable Female-Male 8poles Black Contacts to solder w Brass + Gold flash Knurl round Brass + Nickel plated 0.2 N*m 30V AC/DC 1.5A NBR PVC/PVC CEI2022 Black 8x0.14mm <sup>2</sup> White;Brown;Green; <sup>3</sup>	ires
Housing type Cable gland Contacts type Number of contacts Housing colour Technical data Type of termination Contacts material Coupling nut type M8 coupling nut material M8 coupling nut torque Rated voltage Rated voltage Rated current O-ring material Cable type Cable jacket colour No.Conductors / Section Conductor colours Cable diameter	Moulded cable Female-Male 3poles Black Contacts to crimp w Brass + Gold flash Knurl round Brass + Nickel plated 0.2 N*m 50V AC/ 60V DC 3A NBR PVC/PVC CEI2022 Black 3x0.25mm <sup>2</sup> Brown; Blue; Black	ires	Moulded cable Female-Male 4poles Black Contacts to crimp wi Brass + Gold flash Knurl round Brass + Nickel plated 0.2 N*m 50V AC/ 60V DC 3A NBR PVC/PVC CEI2022 Black 4x0.25mm <sup>2</sup>	res	Moulded cable Female-Male 8poles Black Contacts to solder w Brass + Gold flash Knurl round Brass + Nickel plated 0.2 N*m 30V AC/DC 1.5A NBR PVC/PVC CEI2022 Black 8x0.14mm <sup>2</sup>	ires
Housing type Cable gland Contacts type Number of contacts Housing colour Technical data Type of termination Contacts material Coupling nut type M8 coupling nut material M8 coupling nut material M8 coupling nut torque Rated voltage Rated voltage Rated voltage Cable jacket colour No.Conductors / Section Conductor colours Cable liameter Cable length	Moulded cable Female-Male 3poles Black Contacts to crimp w Brass + Gold flash Knurl round Brass + Nickel plated 0.2 N*m 50V AC/ 60V DC 3A NBR PVC/PVC CEI2022 Black 3x0.25mm <sup>2</sup> Brown; Blue; Black Ø4mm (±0.3)	ires	Moulded cable Female-Male 4poles Black Contacts to crimp wi Brass + Gold flash Knurl round Brass + Nickel plated 0.2 N*m 50V AC/ 60V DC 3A NBR PVC/PVC CEI2022 Black 4x0.25mm <sup>2</sup> Brown; White; Blue; B ø4.4mm (±0.3)	res	Moulded cable Female-Male 8poles Black Contacts to solder w Brass + Gold flash Knurl round Brass + Nickel plated 0.2 N*m 30V AC/DC 1.5A NBR PVC/PVC CEI2022 Black 8x0.14mm <sup>2</sup> White;Brown;Green; ø4.9mm (±0.3)	ires
Housing type Cable gland Contacts type Number of contacts Housing colour Technical data Type of termination Contacts material Coupling nut type M8 coupling nut material M8 coupling nut material M8 coupling nut torque Rated voltage Rated voltage Rated voltage Cable type Cable ijacket colour No.Conductors / Section Conductor colours Cable diameter Cable length Packaging	Moulded cable Female-Male 3poles Black Contacts to crimp w Brass + Gold flash Knurl round Brass + Nickel plated 0.2 N*m 50V AC/ 60V DC 3A NBR PVC/PVC CEI2022 Black 3x0.25mm <sup>2</sup> Brown; Blue; Black Ø4mm (±0.3) 1m	ires	Moulded cable Female-Male 4poles Black Contacts to crimp wi Brass + Gold flash Knurl round Brass + Nickel plated 0.2 N*m 50V AC/ 60V DC 3A NBR PVC/PVC CEI2022 Black 4x0.25mm <sup>2</sup> Brown; White; Blue; fl ø4.4mm (±0.3) 1m	res	Moulded cable Female-Male 8poles Black Contacts to solder w Brass + Gold flash Knurl round Brass + Nickel plated 0.2 N*m 30V AC/DC 1.5A NBR PVC/PVC CEI2022 Black 8x0.14mm <sup>2</sup> White;Brown;Green; <sup>4</sup> ø4.9mm (±0.3) 1m	ires
Housing type Cable gland Contacts type Number of contacts Housing colour Technical data Type of termination	Moulded cable Female-Male 3poles Black Contacts to crimp w Brass + Gold flash Knurl round Brass + Nickel plated 0.2 N*m 50V AC/ 60V DC 3A NBR PVC/PVC CEI2022 Black 3x0.25mm <sup>2</sup> Brown; Blue; Black Ø4mm (±0.3)	ires	Moulded cable Female-Male 4poles Black Contacts to crimp wi Brass + Gold flash Knurl round Brass + Nickel plated 0.2 N*m 50V AC/ 60V DC 3A NBR PVC/PVC CEI2022 Black 4x0.25mm <sup>2</sup> Brown; White; Blue; B ø4.4mm (±0.3)	res	Moulded cable Female-Male 8poles Black Contacts to solder w Brass + Gold flash Knurl round Brass + Nickel plated 0.2 N*m 30V AC/DC 1.5A NBR PVC/PVC CEI2022 Black 8x0.14mm <sup>2</sup> White;Brown;Green; ø4.9mm (±0.3)	ires

See the general features and codification scheme page See the cables list section



Moulded cable connectors

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	4	4	4 2	2 4	
29 24.10 24.10 20 24.10 1 24.10 1 20 24.10 1 20 24.10 1 20 24.10 1 20 20 20 20 20 20 20 20 20 20					
Product description	1				
Connector type	Circular connector w	ith moulded cable	Circular connector with moulded cable		
Conforms to	IEC 61076-2-104		IEC 61076-2-104		
Construction type	M8 A -Coding		M8 A -Coding		
Description	Extension M8-M8 co SHIELDED with moul		Extension M8-M8 co SHIELDED with mou		
Part number	08FJ3J1Z08MJ	08FV3J1Z08MV	08FJ4J1Z08MJ	08FV4J1Z08MV	
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		
lousing colour	Black		Black		
Fechnical data					
Гуре of termination	Contacts to crimp wi	res	Contacts to crimp w	ires	
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 Rated current	50V AC/ 60V DC		50V AC/ 60V DC		
	3A NBR		3A NBR		
O-ring material	PVC/PVC CEI2022 S		PVC/PVC CEI2022 S		
Cable type Cable jacket colour	Black	HIELDED	Black	וויבענע	
No.Conductors / Section	3x0.25mm <sup>2</sup>				
Conductors / Section	Brown; Blue; Black		4x0.25mm <sup>2</sup> Brown; White; Blue; Black		
Cable diameter				υιαυλ	
Cable length	04.4mm (±0.3) 1m		04.01111 (±0.3) 1m		
Packaging					
	1 pc / bag		1 pc / bag		
Other accessories options	i pu / nay		i pu/ nay		
See accessories section					
Notes: Connectors available with different feautures: See the general features and codification sche See the cables list section	eme page				

Moulded cable connectors SNAP series



					1 and 1	
				and the second s		a na
Fechnical drawing		• o(1 • o(3	• o= 1	• 0(1 • 0(3	• • • • • • 1 • • • • • • • • 1	
	N.C. <b>—</b> 4	N.C. C 4	• • • • • •	• • • • • • • • • • • • • • • • • • •		
26.5 20 00 21 21 20 00 20 20 00 20 20 20 20 20 20 20 20	4:N.C. 1 3		1 3			
Product description						
Connector type	Circular connector w	ith moulded cable	Circular connector w	ith 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 N moulded cable	18 SNAP series with	Circular connector M moulded cable	8 SNAP series with	Circular connector I moulded cable	M8 SNAP series with
Part number	08MW2N1Z	08FY2N1Z-Y	08MW3N1Z	08FY3N1Z-Y	08MW4N1Z	08FY4N1Z-Y
lousing type	Straight 180°	Angled 90°	Straight 180°	Angled 90°	Straight 180°	Angled 90°
Cable gland	Moulded cable		Moulded cable		Moulded cable	
contacts type	Male	Female	Male	Female	Male	Female
umber of contacts	2poles		3poles		4poles	
ousing colour	Black		Black		Black	
echnical data						
ype of termination	Contacts to crimp w	res	Contacts to crimp wires		Contacts to crimp wires	
Contacts material	Brass+Gold flash		Brass+Gold flash		Brass+Gold flash	
Coupling nut type	-		-		-	
//8 coupling nut material	-		-		-	
//8 coupling nut torque	-		-		-	
Rated voltage	50V AC/ 60V DC		50V AC/ 60V DC		50V AC/ 60V DC	
Rated current	3A		3A		3A	
)-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	
Io.Conductors / Section	2x0.25mm <sup>2</sup>		3x0.25mm <sup>2</sup>		4x0.25mm <sup>2</sup>	Disala
	Brown; Blue		Brown; Blue; Black		Brown; White; Blue;	віаск;
Conductor colours			ø4mm (±0.3)		ø4.4mm (±0.3)	
Conductor colours Cable diameter	ø3.5mm (±0.3)					
Conductor colours Cable diameter Cable length			ø4mm (±0.3) 1m		04.411111 (±0.3) 1m	
Conductor colours Cable diameter Cable length Packaging Dty/Bag	ø3.5mm (±0.3)					

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



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.

Fixing system : M8 coupling nut. Contact material and treatment :

Brass + Gold flash.

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

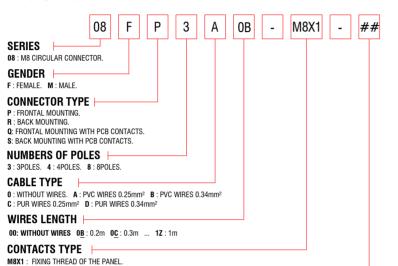
Internal core material : PA66.

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

Flammability resistance : UL94-V2 - Standard.

Protection class : IP 67 (assembled).

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



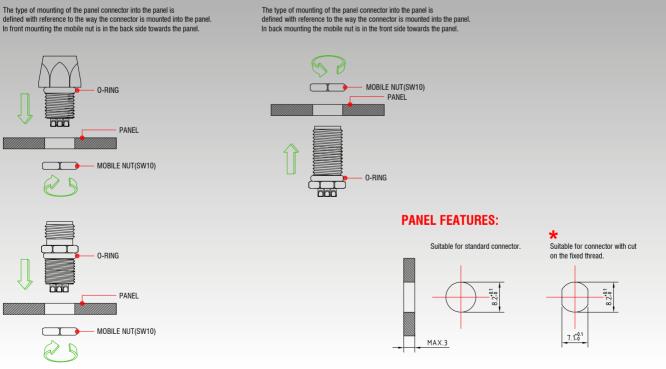
#### SOME VARIABLES

INOX: M8 COUPLING NUT IN STAINLESS STEEL(AISI304). IN316 : M8 COUPLING NUT IN STAINLESS STEEL(AISI316). C0 : CONNECTOR WITH CABLE. CUT : FIXING THREAD WITH ANTIROTATION CUT.

#### **FRONT MOUNTING:**

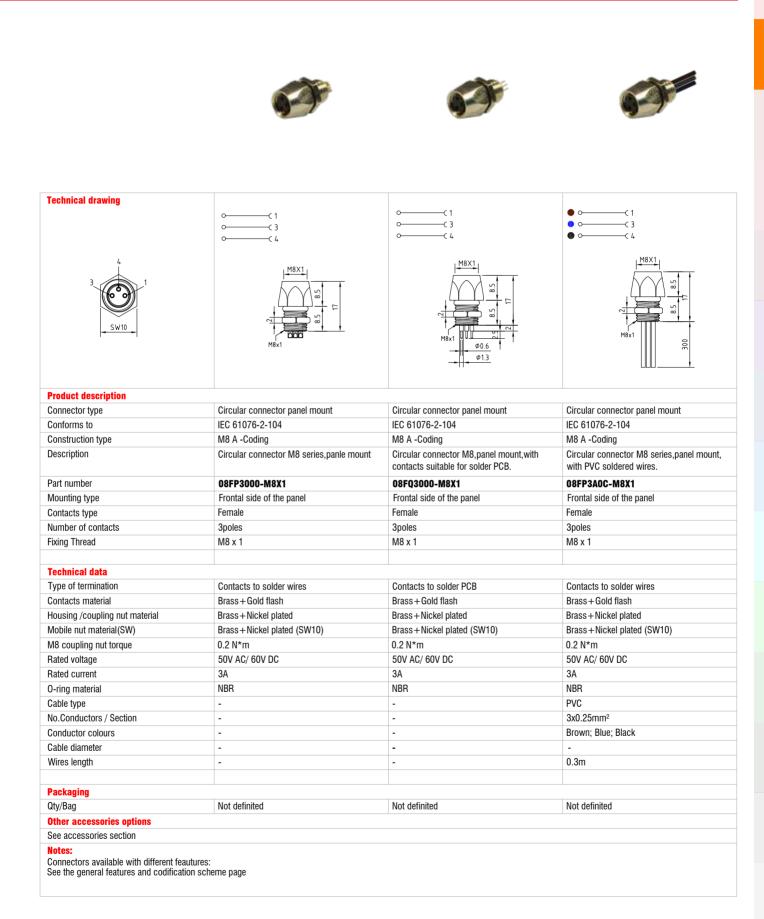
In front mounting the mobile nut is in the back side towards the panel

#### **BACK MOUNTING:**



Panel mount connectors





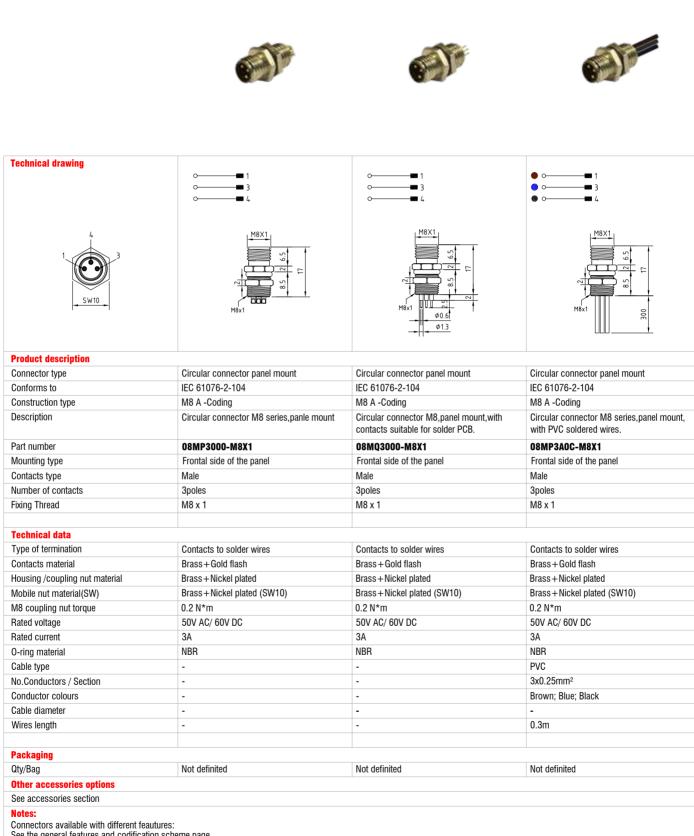
131



Panel mount connectors

Technical drawing	0	o	• • • C 1 • • C 2 • • C 2 • • C 3 • • C 4
4 2 3 5W10	M8x1 M8x1		
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, panle 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
lousing /coupling nut material	Brass+Nickel plated	Brass + Nickel plated	Brass+Nickel plated
Nobile nut material(SW)	Brass+Nickel plated (SW10)	Brass+Nickel plated (SW10)	Brass+Nickel plated (SW10)
VI8 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
D-ring material	NBR	NBR	NBR
Cable type	-	-	PVC
No.Conductors / Section	-	-	4x0.25mm <sup>2</sup>
Conductor colours	-	-	Brown; White; Blue; Black
Cable diameter	-	-	-
Wires length	•	•	0.3m
Packaging			
Qty/Bag	Not definited	Not definited	Not definited
Other accessories options			
See accessories section			













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, panle 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
0-ring material	NBR	NBR	NBR
Cable type	-	-	PVC
No.Conductors / Section	<u>-</u>		4x0.25mm <sup>2</sup>
Conductor colours			Brown; White; Blue; Black
Cable diameter		 	-
Wires length	<u>-</u>		0.3m
The second			0.011
Packaging			
Qty/Bag	Not definited	Not definited	Not definited
Other accessories options			
See accessories section			











Technical drawing		$\begin{array}{c} \bullet & \bullet & \bullet \\ \bullet & \bullet & \bullet \\ \bullet & \bullet & \bullet \\ \bullet & \bullet &$	
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, panle 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	08MP8A0C-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 <sup>2</sup>
Conductor colours	-	-	White;Brown;Green;Yellow;Grey;Pink;Blue;Ree
Cable diameter	-	-	-
Wires length	•	•	0.3m
Packaging			
Qty/Bag	Not definited	Not definited	Not definited
Other accessories options			Not domited
See accessories section			
Notes:			
Connectors available with different feat See the general features and codification			









Technical drawing			
	o(1 o(3 o(4	o	• • • ( 1 • • - ( 3 • • • ( 4
3 1 5 W10			
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, panle 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-M8X1	08F\$3000-M8X1	08FR3A0C-M8X1
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	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 <sup>2</sup>
Conductor colours	-	-	Brown; Blue; Black
Cable diameter	-	-	-
Wires length	-	•	0.3m
Packaging			
Qty/Bag	Not definited	Not definited	Not definited
Other accessories options	Hot domited		
See accessories section			
Notes:			
Connectors available with different fea See the general features and codificati			









Technical drawing	o	o	• • • • • • • • • • • • • • • • • • •
4 2 3 5w10			
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, panle 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-M8X1	08FS4000-M8X1	08FR4A0C-M8X1
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	M8 x 1	M8 x 1	M8 x 1
Technical data			
Type of termination	Contacts to solder wires	Contacts to solder PCB	Contacts to solder wires
Contacts material	Brass+Gold flash	Brass+Gold flash	Brass+Gold flash
Housing /coupling nut material	Brass+Nickel plated	Brass+Nickel plated	Brass+Nickel plated
Mobile nut material(SW)	Brass+Nickel plated (SW10)	Brass+Nickel plated (SW10)	Brass+Nickel plated (SW10)
M8 coupling nut torque	0.2 N*m	0.2 N*m	0.2 N*m
Rated voltage	50V AC/ 60V DC	50V AC/ 60V DC	50V AC/ 60V DC
Rated current	3A	3A	3A
O-ring material	NBR	NBR	NBR
Cable type	-	-	PVC
No.Conductors / Section	-	-	4x0.25mm <sup>2</sup>
Conductor colours	-	-	Brown; White; Blue; Black
Cable diameter	-	-	-
Wires length	•	•	0.3m
Packaging			
Qty/Bag	Not definited	Not definited	Not definited
Other accessories options			
See accessories section			
Notes: Connectors available with different feautu See the general features and codification			









Technical drawing	o∎ 1 o∎ 3 o∎ 4		• • • • • • • • • • • • • • • • • • •
1 5W10			
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, panle 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
Technical data			
Type of termination	Contacts to solder wires	Contacts to solder wires	Contacts to solder wires
Contacts material	Brass+Gold flash	Brass+Gold flash	Brass+Gold flash
Housing /coupling nut material	Brass+Nickel plated	Brass+Nickel plated	Brass+Nickel plated
Mobile nut material(SW)	Brass+Nickel plated (SW10)	Brass+Nickel plated (SW10)	Brass+Nickel plated (SW10)
M8 coupling nut torque	0.2 N*m	0.2 N*m	0.2 N*m
Rated voltage	50V AC/ 60V DC	50V AC/ 60V DC	50V AC/ 60V DC
Rated current	3A	3A	3A
O-ring material	NBR	NBR	NBR
Cable type	-	-	PVC
No.Conductors / Section	-	-	3x0.25mm <sup>2</sup>
Conductor colours	-	-	Brown; Blue; Black
Cable diameter	-	-	-
Wires length	-	•	0.3m
Packaging			
Qty/Bag	Not definited	Not definited	Not definited
Other accessories options	Hot domitod		
See accessories section			
Notes:			













2 3 4 5 5 8 5 8 5 8 0 6		C → 1 2 3 4 5 6 7 8 8 1 1 1 1 1 1 1 1 1 1 1 1 1				
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, panle 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	08MR8A0C-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	-	-	8x0.14mm <sup>2</sup>			
Conductor colours	•	-	White;Brown;Green;Yellow;Grey;Pink;Blue;Red			
Cable diameter	•	-	-			
Wires length		•	0.3m			
Packaging						
Qty/Bag	Not definited	Not definited	Not definited			
Other accessories options						
Uther accessories options						
See accessories section						







Technical drawing				
	- SW10 -	SW10		
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	Adapter Female - Male M8 series circular		
Description	connector, panel mount	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:				



Notes

### Notes:

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

Type of terminations : To solder wires.

Brass + Gold flash

Fixing system : M9 coupling nut.

Max. screw torque IEC60947-1 M9 coupling nut torque 0.2 N\*m Housing material : Polypropylene (Black).

Contact material and treatment :

**Internal core material :** PA66.

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

09 F J 5 J 1Z 09 Μ J ## -SERIES 09 : M9 CIRCULAR CONNECTOR GENDER | F: FEMALE. M: MALE. CONNECTOR TYPE D : STRAIGHT 180°. J : STRAIGHT 180° TOTALLY SHIELDED. NUMBERS OF POLES 5 : 5POLES CABLE TYPE |-J : PVC/PVC CEI2022 5x0.25mm<sup>2</sup> BLACK. U: PUR/PUR 5x0.25mm<sup>2</sup> BLACK. CABLE LENGTH 
 1Z: 1m
 A: +10cm

 2Z: 2m
 B: +20cm

 3Z: 3m
 C: +30cm
 EXAMPLE: "...1<u>C</u>" = 1.3m "...1<u>F</u>" = 1.6m" "...2<u>A</u>" = 2.1m" I: +90cm EXTENSION SPECIFY OTHER CONNECTOR'S SIDE.

#### SOME VARIABLES

 $\label{eq:inversion} \begin{array}{l} \text{INOX}: \texttt{M9} \ \texttt{COUPLING} \ \texttt{NUT} \ \texttt{IN} \ \texttt{STAINLESS} \ \texttt{STEEL}(\texttt{AISI304}). \ \textbf{IN316}: \texttt{M9} \ \texttt{COUPLING} \ \texttt{NUT} \ \texttt{IN} \ \texttt{STAINLESS} \ \texttt{STEEL}(\texttt{AISI316}). \\ \textbf{HN}: \texttt{HEXAGONAL} \ \texttt{M9} \ \texttt{COUPLING} \ \texttt{NUT} \ \texttt{N} \ \texttt{S}: \texttt{SPECIAL} \ \texttt{STRIPPING}/\texttt{PELING-TINNING}. \ \texttt{Y}: \texttt{WITHOUT} \ \texttt{H.T.P.LOGO}. \end{array}$ 

### 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	0.25mm <sup>2</sup>	5	ø5.2mm	-20°C / +80°C
U	PUR/PUR	SHIELDED	Black	0.25mm <sup>2</sup>	5	ø5.2mm	-40°C / +80°C

#### Protection class : IP 67

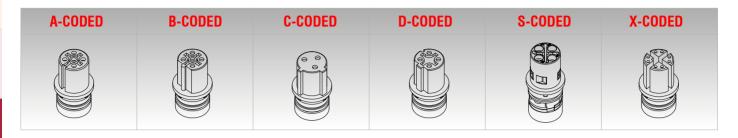
Operating temperature :  $-25^{\circ}C + 90^{\circ}C$ .



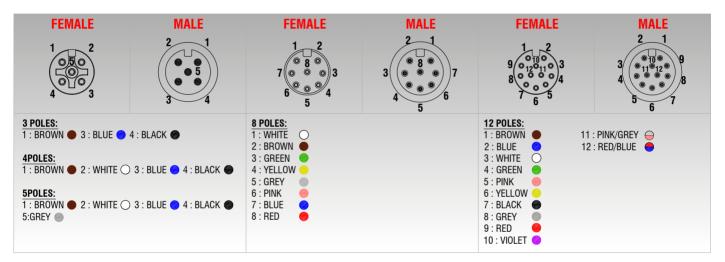




#### • CODING OF M12 CONNECTORS:



#### • M12 A-CODED I/O NETWORKS:



#### 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:



#### • M12 B-CODED PROFIBUS NETWORKS:

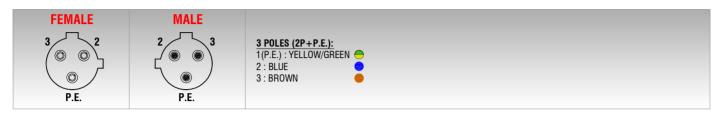




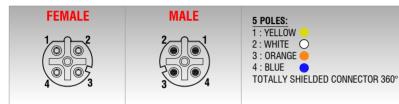
Ether**CA** 

PROF

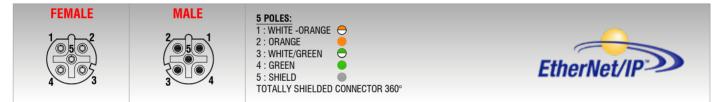
#### • M12 C-CODED I/O NETWORKS:



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



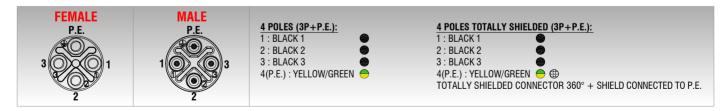
#### • M12 D-CODED ETHERNET NETWORKS:



#### • M12 K-CODED POWER CONNECTOR :

FEMALE	MALE	5 POLES (4P+P.E.):	5 POLES TOTALLY SHIELDED (4P+P.E.):
P.E.	P.E.	1 : BLACK 1	1 : BLACK 1
	Tal	2 : BLACK 2	2 : BLACK 2
		3 : BLACK 3 🛛 🔵	3 : BLACK 3 🔴
		4 : BLACK 4	4 : BLACK 4
3 0 0 2	2 3	5(P.E.) : YELLOW/GREEN 👄	5(P.E.) : YELLOW/GREEN 😑 🌐
			TOTALLY SHIELDED CONNECTOR 360° + SHIELD CONNECTED TO P.E.

#### • M12 S-CODED POWER CONNECTOR :



#### • M12 X-CODED ETHERNET NETWORKS:





Field attachable - General features and codification scheme

#### • GENERAL FEATURES OF FIELD ATTACHABLE CONNECTORS:

#### Cable Gland :

 Plastic Housing

 PG7 : Ø CABLE 4-6mm.

 PG9 : Ø CABLE 4-8mm.

 PG11 : Ø CABLE 6-10mm.

 PG11 double exit: Ø5mm max.

 SK : Ø CABLE 4-8.6mm.

 Metal Housing : Ø CABLE 4-8mm.

Conductor cross section : 0.14(26AWG)...0.75mm<sup>2</sup>(18AWG).

Fixing system : M12 coupling nut. 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).

#### **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).

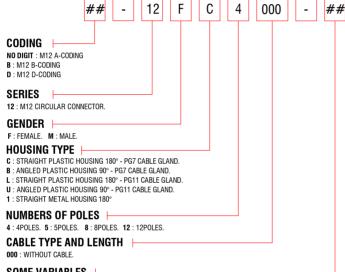
Flammability resistance :

UL94-V0 - ATEX approved.

UL94-V2 - Standard.

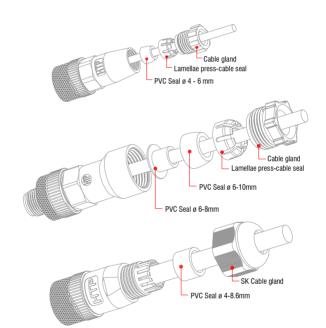
Protection class : IP65/67 (assembled). Operating temperature :

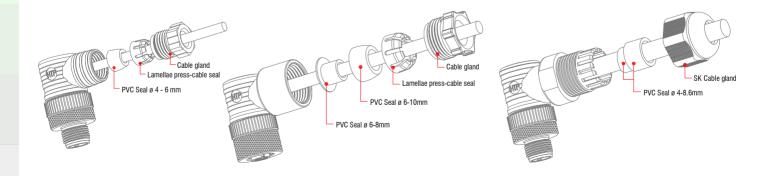
 $-40^{\circ}\text{C} + 90^{\circ}\text{C}.$  $-25^{\circ}\text{C} + 85^{\circ}\text{C} (metal housing).$  $-20^{\circ}\text{C} + 85^{\circ}\text{C} ATEX approved.$ 



#### SOME VARIABLES

ATEX : ATEX conform. H : HEXAGONAL PRESS CABLE SCREW. HN : HEXAGONAL M12 COUPLING NUT. INOX : M12 COUPLING NUT IN STAINLESS STEEL(AISI304). IN316 : M12 COUPLING NUT IN STAINLESS STEEL(AISI316). SK : Cable gland SK style. Y : WITHOUT H.T.P.LOGO.





A-coded - Field attachable connectors

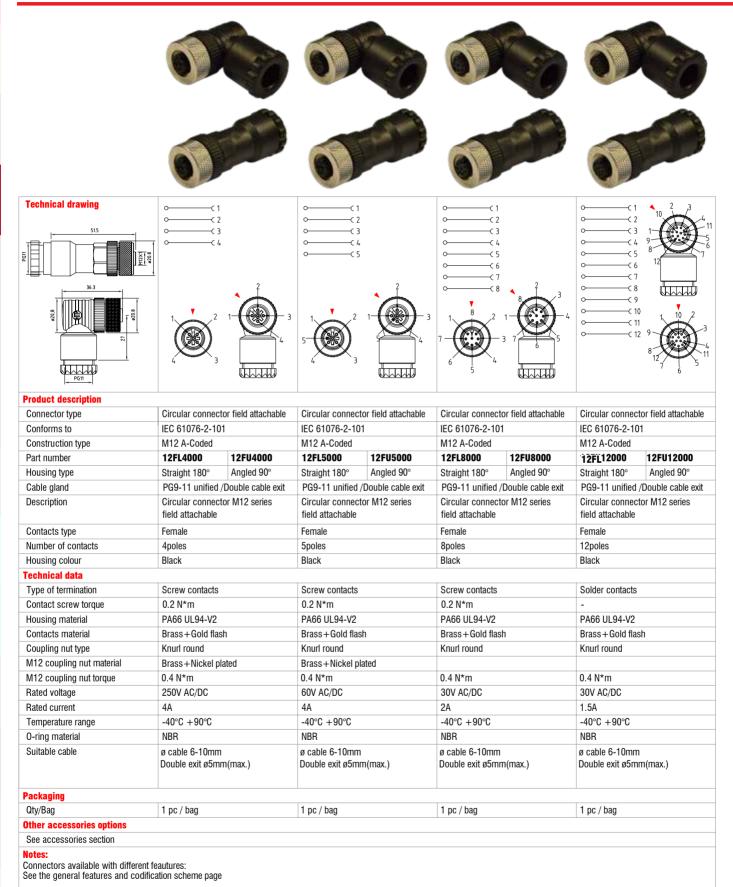


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	0)				0			
Technical drawing	o       (1)         o       (2)         o       (3)         o       (4)		o       (1)         o       (2)         o       (3)         o       (4)         o       (5)		o         (1)           o         (2)           o         (3)           o         (4)           o         (5)           o         (6)		o         (1)           o         (2)           o         (3)           o         (4)           o         (5)           o         (6)           o         (7)	10 2 3 10 8 12
		1-2-3	5- 4- 2- 3	1 5 5 4			o (8 o (9 o (10 o (11 o (12	9
Product description								
Connector type	Circular connecto	or field attachable	Circular connecto	or field attachable	Circular connect	or field attachable	Circular connect	or field attachabl
Conforms to	IEC 61076-2-101	l	IEC 61076-2-101		IEC 61076-2-10		IEC 61076-2-10	1
Construction type	M12 A-Coded		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		PG7 standard	
Description	Circular connector field attachable	or M12 series	Circular connector M12 series field attachable		Circular connector M12 series field attachable		Circular connector M12 series field attachable	
Contacts type	Female		Female		Female		Female	
	Female 4poles		Female 5poles		Female 8poles		Female 12poles	
Number of contacts								
Number of contacts Housing colour	4poles		5poles		8poles		12poles	
Number of contacts Housing colour Technical data	4poles		5poles		8poles		12poles	
Number of contacts Housing colour Technical data Type of termination Contact screw torque	4poles Black Screw contacts 0.2 N*m		5poles Black Screw contacts 0.2 N*m		8poles Black Screw contacts 0.2 N*m		12poles Black Solder contacts -	
Number of contacts Housing colour Technical data Type of termination Contact screw torque Housing material	4poles Black Screw contacts 0.2 N*m PA66 UL94-V2		5poles Black Screw contacts 0.2 N*m PA66 UL94-V2		8poles Black Screw contacts 0.2 N*m PA66 UL94-V2		12poles Black Solder contacts - PA66 UL94-V2	
Number of contacts Housing colour Technical data Type of termination Contact screw torque Housing material Contacts material	4poles Black Screw contacts 0.2 N*m PA66 UL94-V2 Brass + Gold flast	h	5poles Black Screw contacts 0.2 N*m PA66 UL94-V2 Brass + Gold flast	1	8poles Black Screw contacts 0.2 N*m PA66 UL94-V2 Brass + Gold flas	'n	12poles Black Solder contacts - PA66 UL94-V2 Brass + Gold flas	h
Number of contacts Housing colour Technical data Type of termination Contact screw torque Housing material Contacts material Coupling nut type	4poles Black Screw contacts 0.2 N*m PA66 UL94-V2 Brass + Gold flast Knurl round		5poles Black Screw contacts 0.2 N*m PA66 UL94-V2 Brass + Gold flast Knurl round		8poles Black Screw contacts 0.2 N*m PA66 UL94-V2 Brass + Gold flas Knurl round		12poles Black Solder contacts - PA66 UL94-V2 Brass + Gold flas Knurl round	
Contacts type Number of contacts Housing colour Technical data Type of termination Contact screw torque Housing material Contacts material Coupling nut type M12 coupling nut material	4poles Black Screw contacts 0.2 N*m PA66 UL94-V2 Brass + Gold flast Knurl round Brass + Nickel pla		5poles Black Screw contacts 0.2 N*m PA66 UL94-V2 Brass + Gold flast Knurl round Brass + Nickel pla		8poles Black Screw contacts 0.2 N*m PA66 UL94-V2 Brass + Gold flas Knurl round Brass + Nickel pla		12poles Black Solder contacts - PA66 UL94-V2 Brass + Gold flas Knurl round Brass + Nickel pl	
Number of contacts Housing colour <b>Technical data</b> Type of termination Contact screw torque Housing material Contacts material Coupling nut type M12 coupling nut material M12 coupling nut torque	4poles Black Screw contacts 0.2 N*m PA66 UL94-V2 Brass + Gold flast Knurl round Brass + Nickel pla 0.4 N*m		5poles Black Screw contacts 0.2 N*m PA66 UL94-V2 Brass + Gold flast Knurl round Brass + Nickel pla 0.4 N*m		8poles Black Screw contacts 0.2 N*m PA66 UL94-V2 Brass + Gold flas Knurl round Brass + Nickel pla 0.4 N*m		12poles Black Solder contacts - PA66 UL94-V2 Brass + Gold flas Knurl round Brass + Nickel pl 0.4 N*m	
Number of contacts Housing colour <b>Technical data</b> Type of termination Contact screw torque Housing material Contacts material Coupling nut type M12 coupling nut material M12 coupling nut torque Rated voltage	4poles Black Screw contacts 0.2 N*m PA66 UL94-V2 Brass + Gold flasl Knurl round Brass + Nickel pla 0.4 N*m 250V AC/DC		5poles Black Screw contacts 0.2 N*m PA66 UL94-V2 Brass + Gold flast Knurl round Brass + Nickel pla 0.4 N*m 60V AC/DC		8poles Black Screw contacts 0.2 N*m PA66 UL94-V2 Brass + Gold flas Knurl round Brass + Nickel pla 0.4 N*m 30V AC/DC		12poles Black Solder contacts - PA66 UL94-V2 Brass + Gold flas Knurl round Brass + Nickel pl 0.4 N*m 30V AC/DC	
Number of contacts Housing colour <b>Technical data</b> Type of termination Contact screw torque Housing material Contacts material Coupling nut type M12 coupling nut material M12 coupling nut torque Rated voltage Rated current	4poles Black Screw contacts 0.2 N*m PA66 UL94-V2 Brass + Gold flasl Knurl round Brass + Nickel pla 0.4 N*m 250V AC/DC 4A		5poles Black Screw contacts 0.2 N*m PA66 UL94-V2 Brass + Gold flast Knurl round Brass + Nickel pla 0.4 N*m 60V AC/DC 4A		8poles Black Screw contacts 0.2 N*m PA66 UL94-V2 Brass + Gold flas Knurl round Brass + Nickel pla 0.4 N*m 30V AC/DC 2A		12poles Black Solder contacts - PA66 UL94-V2 Brass + Gold flas Knurl round Brass + Nickel pl 0.4 N*m 30V AC/DC 1.5A	
Number of contacts Housing colour Technical data Type of termination Contact screw torque Housing material Contacts material Coupling nut type M12 coupling nut material M12 coupling nut torque Rated voltage Rated current Temperature range	4poles         Black         Screw contacts         0.2 N*m         PA66 UL94-V2         Brass + Gold flash         Knurl round         Brass + Nickel pla         0.4 N*m         250V AC/DC         4A         -40°C + 90°C		5poles Black Screw contacts 0.2 N*m PA66 UL94-V2 Brass + Gold flast Knurl round Brass + Nickel pla 0.4 N*m 60V AC/DC 4A -40°C + 90°C		8poles         Black         Screw contacts         0.2 N*m         PA66 UL94-V2         Brass + Gold flas         Knurl round         Brass + Nickel pla         0.4 N*m         30V AC/DC         2A         -40°C + 90°C		12poles Black Solder contacts - PA66 UL94-V2 Brass + Gold flas Knurl round Brass + Nickel pl 0.4 N*m 30V AC/DC 1.5A -40°C +90°C	
Number of contacts Housing colour Technical data Type of termination Contact screw torque Housing material Contacts material Coupling nut type	4poles         Black         Screw contacts         0.2 N*m         PA66 UL94-V2         Brass + Gold flash         Knurl round         Brass + Nickel pla         0.4 N*m         250V AC/DC         4A         -40°C +90°C         NBR		5poles Black Screw contacts 0.2 N*m PA66 UL94-V2 Brass + Gold flasl Knurl round Brass + Nickel pla 0.4 N*m 60V AC/DC 4A -40°C +90°C NBR		8poles Black Screw contacts 0.2 N*m PA66 UL94-V2 Brass + Gold flas Knurl round Brass + Nickel pla 0.4 N*m 30V AC/DC 2A		12poles Black Solder contacts - PA66 UL94-V2 Brass + Gold flas Knurl round Brass + Nickel pl 0.4 N*m 30V AC/DC 1.5A -40°C +90°C NBR	
Number of contacts Housing colour Technical data Type of termination Contact screw torque Housing material Contacts material Coupling nut type M12 coupling nut material M12 coupling nut torque Rated voltage Rated voltage Rated current Temperature range O-ring material	4poles         Black         Screw contacts         0.2 N*m         PA66 UL94-V2         Brass + Gold flash         Knurl round         Brass + Nickel pla         0.4 N*m         250V AC/DC         4A         -40°C + 90°C		5poles Black Screw contacts 0.2 N*m PA66 UL94-V2 Brass + Gold flast Knurl round Brass + Nickel pla 0.4 N*m 60V AC/DC 4A -40°C + 90°C		8poles         Black         Screw contacts         0.2 N*m         PA66 UL94-V2         Brass + Gold flas         Knurl round         Brass + Nickel pla         0.4 N*m         30V AC/DC         2A         -40°C + 90°C         NBR		12poles Black Solder contacts - PA66 UL94-V2 Brass + Gold flas Knurl round Brass + Nickel pl 0.4 N*m 30V AC/DC 1.5A -40°C +90°C	
Number of contacts Housing colour Technical data Type of termination Contact screw torque Housing material Contacts material Coupling nut type M12 coupling nut material M12 coupling nut torque Rated voltage Rated current Temperature range O-ring material Suitable cable	4poles         Black         Screw contacts         0.2 N*m         PA66 UL94-V2         Brass + Gold flash         Knurl round         Brass + Nickel pla         0.4 N*m         250V AC/DC         4A         -40°C +90°C         NBR		5poles Black Screw contacts 0.2 N*m PA66 UL94-V2 Brass + Gold flasl Knurl round Brass + Nickel pla 0.4 N*m 60V AC/DC 4A -40°C +90°C NBR		8poles         Black         Screw contacts         0.2 N*m         PA66 UL94-V2         Brass + Gold flas         Knurl round         Brass + Nickel pla         0.4 N*m         30V AC/DC         2A         -40°C + 90°C         NBR		12poles Black Solder contacts - PA66 UL94-V2 Brass + Gold flas Knurl round Brass + Nickel pl 0.4 N*m 30V AC/DC 1.5A -40°C +90°C NBR	
Number of contacts Housing colour Technical data Type of termination Contact screw torque Housing material Contacts material Coupling nut type M12 coupling nut material M12 coupling nut torque Rated voltage Rated current Temperature range O-ring material Suitable cable Packaging	4poles Black Screw contacts 0.2 N*m PA66 UL94-V2 Brass + Gold flast Knurl round Brass + Nickel pla 0.4 N*m 250V AC/DC 4A -40°C +90°C NBR Ø 4 - 6mm		5poles Black Screw contacts 0.2 N*m PA66 UL94-V2 Brass + Gold flast Knurl round Brass + Nickel pla 0.4 N*m 60V AC/DC 4A -40°C + 90°C NBR Ø 4 - 6mm		8poles Black Screw contacts 0.2 N*m PA66 UL94-V2 Brass + Gold flas Knurl round Brass + Nickel pla 0.4 N*m 30V AC/DC 2A -40°C + 90°C NBR Ø 4 - 6mm		12poles Black Solder contacts - PA66 UL94-V2 Brass + Gold flas Knurl round Brass + Nickel pl 0.4 N*m 30V AC/DC 1.5A -40°C + 90°C NBR Ø 4 - 6mm	
Number of contacts Housing colour Technical data Type of termination Contact screw torque Housing material Contacts material Coupling nut type M12 coupling nut material M12 coupling nut torque Rated voltage Rated current Temperature range O-ring material Suitable cable	4poles         Black         Screw contacts         0.2 N*m         PA66 UL94-V2         Brass + Gold flash         Knurl round         Brass + Nickel pla         0.4 N*m         250V AC/DC         4A         -40°C +90°C         NBR		5poles Black Screw contacts 0.2 N*m PA66 UL94-V2 Brass + Gold flasl Knurl round Brass + Nickel pla 0.4 N*m 60V AC/DC 4A -40°C +90°C NBR		8poles         Black         Screw contacts         0.2 N*m         PA66 UL94-V2         Brass + Gold flas         Knurl round         Brass + Nickel pla         0.4 N*m         30V AC/DC         2A         -40°C + 90°C         NBR		12poles Black Solder contacts - PA66 UL94-V2 Brass + Gold flas Knurl round Brass + Nickel pl 0.4 N*m 30V AC/DC 1.5A -40°C +90°C NBR	

See the general features and codification scheme page



A-coded - Field attachable connectors



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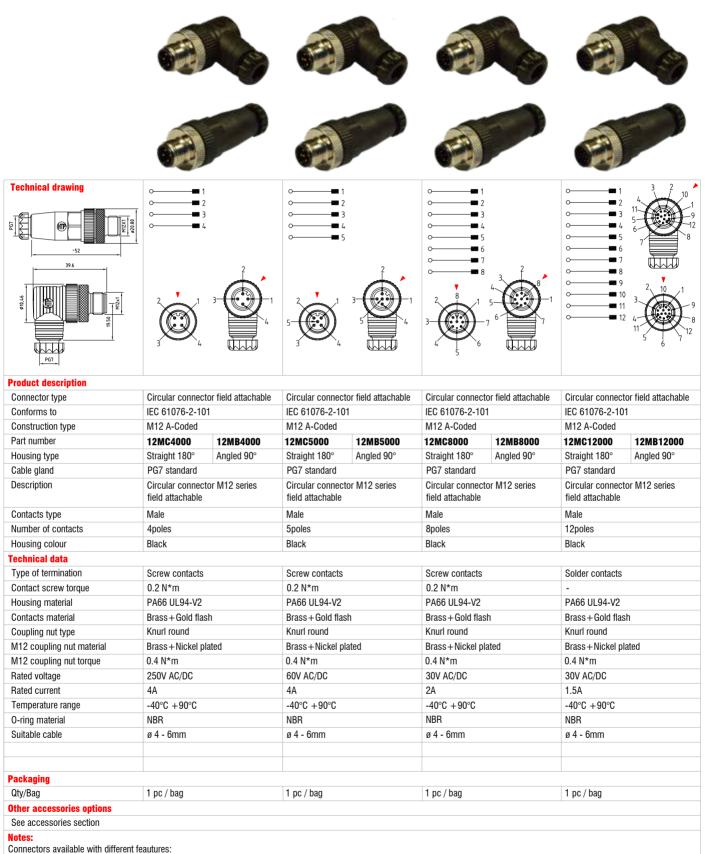
A-coded - Field attachable connectors



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Technical drawing	o         (1)           o         (2)           o         (3)           o         (4)		o     (1)       o     (2)       o     (3)       o     (4)       o     (5)		o     (1)       o     (2)       o     (3)       o     (4)       o     (5)		o         -         -         1           o         -         2         2           o         -         3         3           o         -         4         5	
				3	$\begin{array}{c} & & \\$		o         (6)           o         (7)           o         (8)           o         (9)           o         (10)           o         (11)           o         (12)	
Product description								6
Connector type	Circular connecto	r field attachable	Circular connect	or field attachable	Circular connecto	r field attachable	Circular connect	or field attachable
Conforms to	IEC 61076-2-101		IEC 61076-2-10		IEC 61076-2-101		IEC 61076-2-10	
Construction type	M12 A-Coded		M12 A-Coded	1	M12 A-Coded		M12 A-Coded	1
Part number	12FC4000-SK	12FB4000-SK	12FC5000-SK	12FB5000-SK	12FC8000-SK	12FB8000-SK	12FC12000-SK	12FR12000-
Housing type	Straight 180°	Angled 90°	Straight 180°	Angled 90°	Straight 180°	Angled 90°	Straight 180°	Angled 90°
Cable gland	PG9 SK model	Angleu 30	PG9 SK model	Aligieu 30		Angled 30	PG9 SK model	Aligieu 50
Description	Circular connector field attachable	or M12 series	Circular connect field attachable	or M12 series	PG9 SK model 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 flas	1	Brass+Gold flas	h	Brass+Gold flash	1	Brass+Gold flas	h
Coupling nut type	Knurl round		Knurl round		Knurl round		Knurl round	
M8 coupling nut material	Brass+Nickel pla	ted	Brass+Nickel pl	ated	Brass+Nickel pla	ted	Brass+Nickel pla	ated
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	
	F- / - ~9		F-,9		F- / - ~ 9		F-, 349	
Other accessories options See accessories section								



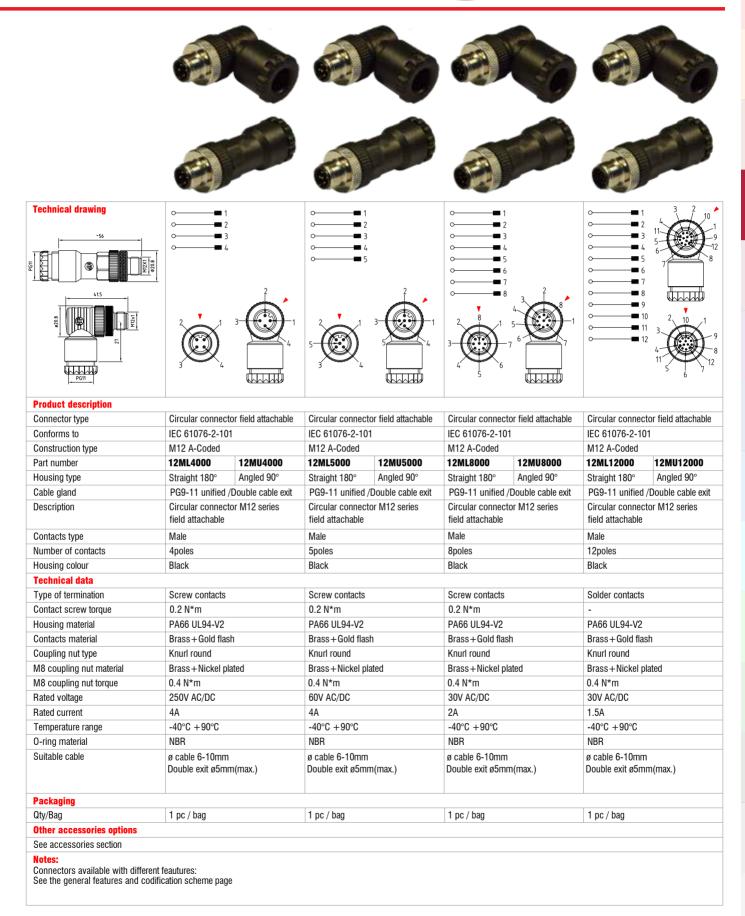
A-coded - Field attachable connectors



See the general features and codification scheme page

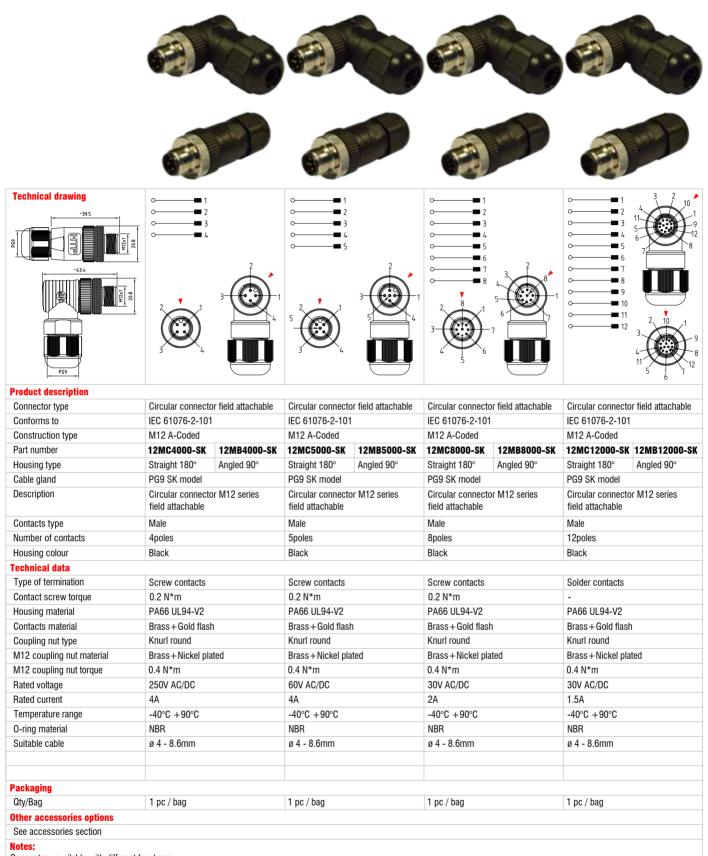
A-coded - Field attachable connectors







A-coded - Field attachable connectors



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

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A-coded - Field attachable connectors



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	C?	-	E	33		33	E	- Si
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			5 4 2 3	5				
Product description								
Connector type	Circular connect	or field attachable	Circular connecto	r field attachable	Circular connecto	or field attachable	Circular connect	tor field attachable
0	IEC 61076-2-10 <sup>-</sup>	1	IEC 61076-2-101		IEC 61076-2-101		IEC 61076-2-10	1
Conforms to	120 01010 2 10	•	IEC CICIC E ICI		IEG GIGIGE IGI		IEC CICIC E IC	•
	M12 A-Coded		M12 A-Coded		M12 A-Coded		M12 A-Coded	·
Construction type		12M14000		12M15000		12M18000		12M112000
Construction type Part number Housing type	M12 A-Coded		M12 A-Coded	12M15000	M12 A-Coded <b>12F18000</b> Straight 180°		M12 A-Coded	
Construction type Part number Housing type Cable gland	M12 A-Coded <b>12F14000</b>		M12 A-Coded 12F15000	12M15000	M12 A-Coded <b>12F18000</b>		M12 A-Coded 12F112000	
Construction type Part number Housing type Cable gland	M12 A-Coded <b>12F14000</b> Straight 180° PG9 standard	12M14000 or M12 series field	M12 A-Coded <b>12F15000</b> Straight 180°	r M12 series field	M12 A-Coded <b>12F18000</b> Straight 180° PG9 standard	12M18000 or M12 series field	M12 A-Coded <b>12F112000</b> Straight 180° PG9 standard	12M112000
Construction type Part number Housing type Cable gland Description	M12 A-Coded <b>12F14000</b> Straight 180° PG9 standard Circular connector	12M14000 or M12 series field	M12 A-Coded <b>12F15000</b> Straight 180° PG9 standard Circular connecto	r M12 series field	M12 A-Coded <b>12F18000</b> Straight 180° PG9 standard Circular connector	12M18000 or M12 series field	M12 A-Coded <b>12F112000</b> Straight 180° PG9 standard Circular connect	12M112000
Construction type Part number Housing type Cable gland Description Contacts type	M12 A-Coded <b>12F14000</b> Straight 180° PG9 standard Circular connectuation attachable TOTA	12M14000 or M12 series field LLY SHIELDED	M12 A-Coded <b>12F15000</b> Straight 180° PG9 standard Circular connecto attachable TOTAL	r M12 series field LY SHIELDED	M12 A-Coded <b>12F18000</b> Straight 180° PG9 standard Circular connecto attachable TOTAL	12M18000 or M12 series field LLY SHIELDED	M12 A-Coded <b>12F112000</b> Straight 180° PG9 standard Circular connect attachable TOTA	12M112000 tor M12 series fie LLLY SHIELDED
Construction type Part number Housing type Cable gland Description Contacts type Number of contacts	M12 A-Coded <b>12F14000</b> Straight 180° PG9 standard Circular connect attachable TOTAI Female	12M14000 or M12 series field LLY SHIELDED	M12 A-Coded <b>12F15000</b> Straight 180° PG9 standard Circular connecto attachable TOTAL Female	r M12 series field LY SHIELDED	M12 A-Coded <b>12F18000</b> Straight 180° PG9 standard Circular connecte attachable TOTAL Female	12M18000 or M12 series field LLY SHIELDED	M12 A-Coded <b>12F112000</b> Straight 180° PG9 standard Circular connect attachable TOTA Female	12M112000 tor M12 series fie LLLY SHIELDED
Construction type Part number Housing type Cable gland Description Contacts type Number of contacts Housing colour	M12 A-Coded <b>12F14000</b> Straight 180° PG9 standard Circular connect attachable TOTAL Female 4poles	12M14000 or M12 series field LLY SHIELDED	M12 A-Coded <b>12F15000</b> Straight 180° PG9 standard Circular connecto attachable TOTAL Female 5poles	r M12 series field LY SHIELDED	M12 A-Coded <b>12F18000</b> Straight 180° PG9 standard Circular connecte attachable TOTAL Female 8poles	12M18000 or M12 series field LLY SHIELDED	M12 A-Coded <b>12F112000</b> Straight 180° PG9 standard Circular connect attachable TOTA Female 12poles	12M112000 tor M12 series fice LLLY SHIELDED
Construction type Part number Housing type Cable gland Description Contacts type Number of contacts Housing colour Fechnical data	M12 A-Coded <b>12F14000</b> Straight 180° PG9 standard Circular connect attachable TOTAL Female 4poles	12M14000 or M12 series field LLY SHIELDED	M12 A-Coded <b>12F15000</b> Straight 180° PG9 standard Circular connecto attachable TOTAL Female 5poles	r M12 series field LY SHIELDED	M12 A-Coded <b>12F18000</b> Straight 180° PG9 standard Circular connecte attachable TOTAL Female 8poles	12M18000 or M12 series field LLY SHIELDED	M12 A-Coded <b>12F112000</b> Straight 180° PG9 standard Circular connect attachable TOTA Female 12poles	12M112000 tor M12 series fie LLLY SHIELDED
Construction type Part number Housing type Cable gland Description Contacts type Number of contacts Housing colour Fechnical data Type of termination	M12 A-Coded <b>12F14000</b> Straight 180° PG9 standard Circular connect attachable TOTAI Female 4poles Black	12M14000 or M12 series field LLY SHIELDED	M12 A-Coded <b>12F15000</b> Straight 180° PG9 standard Circular connecto attachable TOTAL Female 5poles Black	r M12 series field LY SHIELDED	M12 A-Coded <b>12F18000</b> Straight 180° PG9 standard Circular connector attachable TOTAL Female 8poles Black	12M18000 or M12 series field LLY SHIELDED	M12 A-Coded <b>12F112000</b> Straight 180° PG9 standard Circular connect attachable TOTA Female 12poles Black	12M112000 tor M12 series fie
Construction type Part number Housing type Cable gland Description Contacts type Number of contacts Housing colour Technical data Type of termination Contact screw torque Housing material	M12 A-Coded <b>12F14000</b> Straight 180° PG9 standard Circular connect attachable TOTAI Female 4poles Black Screw contacts	12M14000 or M12 series field LLY SHIELDED Male	M12 A-Coded <b>12F15000</b> Straight 180° PG9 standard Circular connecto attachable TOTAL Female 5poles Black Screw contacts 0.2 N*m Brass + Nickel plat	r M12 series field LY SHIELDED Male	M12 A-Coded <b>12F18000</b> Straight 180° PG9 standard Circular connector attachable TOTAL Female 8poles Black Screw contacts 0.2 N*m Brass + Nickel pla	12M18000 or M12 series field LY SHIELDED Male	M12 A-Coded <b>12F112000</b> Straight 180° PG9 standard Circular connect attachable TOTA Female 12poles Black Solder contacts	12M112000 tor M12 series fie LLY SHIELDED Male
Construction type Part number Housing type Cable gland Description Contacts type Number of contacts Housing colour Technical data Type of termination Contact screw torque Housing material Contacts material	M12 A-Coded <b>12F14000</b> Straight 180° PG9 standard Circular connect attachable TOTAI Female 4poles Black Screw contacts 0.2 N*m Brass + Nickel pla Brass + Gold flas	12M14000 or M12 series field LLY SHIELDED Male	M12 A-Coded <b>12F15000</b> Straight 180° PG9 standard Circular connecto attachable TOTAL Female 5poles Black Screw contacts 0.2 N*m Brass+Nickel plat Brass+Gold flash	r M12 series field LY SHIELDED Male	M12 A-Coded 12F18000 Straight 180° PG9 standard Circular connector attachable TOTAL Female 8poles Black Screw contacts 0.2 N*m Brass + Nickel pla Brass + Gold flash	12M18000 or M12 series field LY SHIELDED Male	M12 A-Coded <b>12F112000</b> Straight 180° PG9 standard Circular connect attachable TOTA Female 12poles Black Solder contacts - Brass + Nickel pl Brass + Gold flas	12M112000       tor M12 series fie       LLY SHIELDED       Male
Construction type Part number Housing type Cable gland Description Contacts type Number of contacts Housing colour Technical data Type of termination Contact screw torque Housing material Contacts material Coupling nut type	M12 A-Coded <b>12F14000</b> Straight 180° PG9 standard Circular connect attachable TOTAI Female 4poles Black Screw contacts 0.2 N*m Brass + Nickel pla Brass + Gold flas Knurl round	12M14000       or M12 series field       LLY SHIELDED       Male       ated       h	M12 A-Coded <b>12F15000</b> Straight 180° PG9 standard Circular connecto attachable TOTAL Female 5poles Black Screw contacts 0.2 N*m Brass + Nickel pla Brass + Gold flash Knurl round	r M12 series field LY SHIELDED Male ted	M12 A-Coded 12F18000 Straight 180° PG9 standard Circular connector attachable TOTAL Female 8poles Black Screw contacts 0.2 N*m Brass + Nickel pla Brass + Gold flash Knurl round	12M18000 or M12 series field LY SHIELDED Male	M12 A-Coded <b>12F112000</b> Straight 180° PG9 standard Circular connect attachable TOTA Female 12poles Black Solder contacts - Brass + Nickel pl Brass + Gold flas Knurl round	12M112000 tor M12 series fiel LLY SHIELDED Male lated sh
Construction type Part number Housing type Cable gland Description Contacts type Number of contacts Housing colour Technical data Type of termination Contact screw torque Housing material Contacts material Coupling nut type M8 coupling nut material	M12 A-Coded <b>12F14000</b> Straight 180° PG9 standard Circular connect attachable TOTAI Female 4poles Black Screw contacts 0.2 N*m Brass + Nickel pla Brass + Gold flas Knurl round Brass + Nickel pla	12M14000       or M12 series field       LLY SHIELDED       Male       ated       h	M12 A-Coded <b>12F15000</b> Straight 180° PG9 standard Circular connecto attachable TOTAL Female 5poles Black Screw contacts 0.2 N*m Brass + Nickel plat Brass + Nickel plat Brass + Nickel plat	r M12 series field LY SHIELDED Male ted	M12 A-Coded <b>12F18000</b> Straight 180° PG9 standard Circular connecte attachable TOTAL Female 8poles Black Screw contacts 0.2 N*m Brass + Nickel pla Brass + Gold flast Knurl round Brass + Nickel pla	12M18000 or M12 series field LY SHIELDED Male	M12 A-Coded <b>12F112000</b> Straight 180° PG9 standard Circular connect attachable TOTA Female 12poles Black Solder contacts - Brass + Nickel pl Brass + Gold flas Knurl round Brass + Nickel pl	12M112000 tor M12 series fiel LLY SHIELDED Male lated sh
Construction type Part number Housing type Cable gland Description Contacts type Number of contacts Housing colour Technical data Type of termination Contact screw torque Housing material Contacts material Contacts material M8 coupling nut material M8 coupling nut torque	M12 A-Coded <b>12F14000</b> Straight 180° PG9 standard Circular connecti attachable TOTAI Female 4 poles Black Screw contacts 0.2 N*m Brass + Nickel pla Brass + Nickel pla Brass + Nickel pla Brass + Nickel pla 0.4 N*m	12M14000       or M12 series field       LLY SHIELDED       Male       ated       h	M12 A-Coded <b>12F15000</b> Straight 180° PG9 standard Circular connecto attachable TOTAL Female 5poles Black Screw contacts 0.2 N*m Brass + Nickel plat Brass + Nickel plat Brass + Nickel plat Brass + Nickel plat 0.4 N*m	r M12 series field LY SHIELDED Male ted	M12 A-Coded <b>12F18000</b> Straight 180° PG9 standard Circular connecte attachable TOTAL Female 8poles Black Screw contacts 0.2 N*m Brass + Nickel pla Brass + Nickel pla Brass + Nickel pla 0.4 N*m	12M18000 or M12 series field LY SHIELDED Male	M12 A-Coded <b>12F112000</b> Straight 180° PG9 standard Circular connect attachable TOTA Female 12poles Black Solder contacts - Brass + Nickel pl Brass + Nickel pl Brass + Nickel pl Brass + Nickel pl 0.4 N*m	12M112000 tor M12 series fie LLY SHIELDED Male lated sh
Construction type Part number Housing type Cable gland Description Contacts type Number of contacts Housing colour Technical data Type of termination Contact screw torque Housing material Contacts material Coupling nut type M8 coupling nut material M8 coupling nut torque Rated voltage	M12 A-Coded <b>12F14000</b> Straight 180° PG9 standard Circular connecti attachable TOTAI Female 4poles Black Screw contacts 0.2 N*m Brass + Nickel pla Brass + Nickel pla Circular connecti Brass + Nickel pla 0.4 N*m 250V AC/DC	12M14000       or M12 series field       LLY SHIELDED       Male       ated       h	M12 A-Coded <b>12F15000</b> Straight 180° PG9 standard Circular connecto attachable TOTAL Female 5poles Black Screw contacts 0.2 N*m Brass + Nickel plat Brass + Nickel plat Brass + Nickel plat 0.4 N*m 60V AC/DC	r M12 series field LY SHIELDED Male ted	M12 A-Coded 12F18000 Straight 180° PG9 standard Circular connecte attachable TOTAL Female 8poles Black Screw contacts 0.2 N*m Brass + Nickel pla Brass + Nickel pla Brass + Nickel pla Murl round Brass + Nickel pla 0.4 N*m 30V AC/DC	12M18000 or M12 series field LY SHIELDED Male	M12 A-Coded <b>12F112000</b> Straight 180° PG9 standard Circular connect attachable TOTA Female 12poles Black Solder contacts - Brass + Nickel pl Brass + Nickel pl Brass + Nickel pl Brass + Nickel pl 0.4 N*m 30V AC/DC	12M112000 tor M12 series fie LLY SHIELDED Male lated sh
Construction type Part number Housing type Cable gland Description Contacts type Number of contacts Housing colour Technical data Type of termination Contact screw torque Housing material Contacts material Coupling nut type M8 coupling nut material M8 coupling nut torque Rated voltage Rated current	M12 A-Coded <b>12F14000</b> Straight 180° PG9 standard Circular connect attachable TOTAI Female 4poles Black Screw contacts 0.2 N*m Brass + Nickel pla Brass + Nickel pla Brass + Nickel pla 0.4 N*m 250V AC/DC 4A	12M14000       or M12 series field       LLY SHIELDED       Male       ated       h	M12 A-Coded 12F15000 Straight 180° PG9 standard Circular connecto attachable TOTAL Female 5poles Black Screw contacts 0.2 N*m Brass+Nickel plat Brass+Nickel plat Brass+Nickel plat 0.4 N*m 60V AC/DC 4A	r M12 series field LY SHIELDED Male ted	M12 A-Coded 12F18000 Straight 180° PG9 standard Circular connecte attachable TOTAL Female 8poles Black Screw contacts 0.2 N*m Brass + Nickel pla Brass + Nickel pla Brass + Nickel pla 0.4 N*m 30V AC/DC 2A	12M18000 or M12 series field LY SHIELDED Male	M12 A-Coded <b>12F112000</b> Straight 180° PG9 standard Circular connect attachable TOTA Female 12poles Black Solder contacts - Brass + Nickel pl Brass + Nickel pl Brass + Nickel pl 0.4 N*m 30V AC/DC 1.5A	12M112000 tor M12 series fiel LLY SHIELDED Male lated sh
Construction type Part number Housing type Cable gland Description Contacts type Number of contacts Housing colour Technical data Type of termination Contact screw torque Housing material Contacts material Coupling nut type M8 coupling nut material M8 coupling nut torque Rated voltage Rated current Temperature range	M12 A-Coded <b>12F14000</b> Straight 180° PG9 standard Circular connect attachable TOTAI Female 4poles Black Screw contacts 0.2 N*m Brass + Nickel pla Brass + Nickel pla 0.4 N*m 250V AC/DC 4A -25°C +85°C	12M14000       or M12 series field       LLY SHIELDED       Male       ated       h	M12 A-Coded <b>12F15000</b> Straight 180° PG9 standard Circular connecto attachable TOTAL Female 5poles Black Screw contacts 0.2 N*m Brass + Nickel plat 0.4 N*m 60V AC/DC 4A -25°C +85°C	r M12 series field LY SHIELDED Male ted	M12 A-Coded 12F18000 Straight 180° PG9 standard Circular connecte attachable TOTAL Female 8poles Black Screw contacts 0.2 N*m Brass + Nickel pla Brass + Nickel pla 0.4 N*m 30V AC/DC 2A -25°C +85°C	12M18000 or M12 series field LY SHIELDED Male	M12 A-Coded <b>12F112000</b> Straight 180° PG9 standard Circular connect attachable TOTA Female 12poles Black Solder contacts - Brass + Nickel pl Brass + Nickel pl 0.4 N*m 30V AC/DC 1.5A -25°C + 85°C	12M112000 tor M12 series fie LLY SHIELDED Male lated sh
Construction type Part number Housing type Cable gland Description Contacts type Number of contacts Housing colour Technical data Type of termination Contact screw torque Housing material Contacts material Coupling nut type M8 coupling nut material M8 coupling nut torque Rated voltage Rated current Temperature range O-ring material	M12 A-Coded <b>12F14000</b> Straight 180° PG9 standard Circular connect attachable TOTAI Female 4poles Black Screw contacts 0.2 N*m Brass + Nickel pla Brass + Nickel pla 0.4 N*m 250V AC/DC 4A -25°C + 85°C NBR	12M14000       or M12 series field       LLY SHIELDED       Male       ated       h	M12 A-Coded 12F15000 Straight 180° PG9 standard Circular connecto attachable TOTAL Female 5poles Black Screw contacts 0.2 N*m Brass+Nickel plat Brass+Nickel plat Brass+Nickel plat Brass+Nickel plat 0.4 N*m 60V AC/DC 4A -25°C +85°C NBR	r M12 series field LY SHIELDED Male ted	M12 A-Coded 12F18000 Straight 180° PG9 standard Circular connecte attachable TOTAL Female 8poles Black Screw contacts 0.2 N*m Brass + Nickel pla Brass + Kickel pla 0.4 N*m 30V AC/DC 2A -25°C + 85°C NBR	12M18000 or M12 series field LY SHIELDED Male	M12 A-Coded <b>12F112000</b> Straight 180° PG9 standard Circular connect attachable TOTA Female 12poles Black Solder contacts - Brass + Nickel pl 0.4 N*m 30V AC/DC 1.5A -25°C + 85°C NBR	12M112000 tor M12 series fie LLY SHIELDED Male lated sh
Contorms to Construction type Part number Housing type Cable gland Description Contacts type Number of contacts Housing colour Technical data Type of termination Contact screw torque Housing material Contacts material Contacts material Contacts material Coupling nut type M8 coupling nut material M8 coupling nut torque Rated voltage Rated current Temperature range O-ring material Suitable cable	M12 A-Coded <b>12F14000</b> Straight 180° PG9 standard Circular connect attachable TOTAI Female 4poles Black Screw contacts 0.2 N*m Brass + Nickel pla Brass + Nickel pla 0.4 N*m 250V AC/DC 4A -25°C +85°C	12M14000       or M12 series field       LLY SHIELDED       Male       ated       h	M12 A-Coded <b>12F15000</b> Straight 180° PG9 standard Circular connecto attachable TOTAL Female 5poles Black Screw contacts 0.2 N*m Brass + Nickel plat 0.4 N*m 60V AC/DC 4A -25°C +85°C	r M12 series field LY SHIELDED Male ted	M12 A-Coded 12F18000 Straight 180° PG9 standard Circular connecte attachable TOTAL Female 8poles Black Screw contacts 0.2 N*m Brass + Nickel pla Brass + Nickel pla 0.4 N*m 30V AC/DC 2A -25°C +85°C	12M18000 or M12 series field LY SHIELDED Male	M12 A-Coded <b>12F112000</b> Straight 180° PG9 standard Circular connect attachable TOTA Female 12poles Black Solder contacts - Brass + Nickel pl Brass + Nickel pl 0.4 N*m 30V AC/DC 1.5A -25°C + 85°C	12M112000 tor M12 series fie LLY SHIELDED Male lated sh
Construction type Part number Housing type Cable gland Description Contacts type Number of contacts Housing colour Technical data Type of termination Contact screw torque Housing material Contacts material Coupling nut type M8 coupling nut material M8 coupling nut torque Rated voltage Rated current Temperature range O-ring material Suitable cable	M12 A-Coded <b>12F14000</b> Straight 180° PG9 standard Circular connect attachable TOTAI Female 4poles Black Screw contacts 0.2 N*m Brass + Nickel pla Brass + Nickel pla 0.4 N*m 250V AC/DC 4A -25°C + 85°C NBR	12M14000       or M12 series field       LLY SHIELDED       Male       ated       h	M12 A-Coded 12F15000 Straight 180° PG9 standard Circular connecto attachable TOTAL Female 5poles Black Screw contacts 0.2 N*m Brass+Nickel plat Brass+Nickel plat Brass+Nickel plat Brass+Nickel plat 0.4 N*m 60V AC/DC 4A -25°C +85°C NBR	r M12 series field LY SHIELDED Male ted	M12 A-Coded 12F18000 Straight 180° PG9 standard Circular connecte attachable TOTAL Female 8poles Black Screw contacts 0.2 N*m Brass + Nickel pla Brass + Kickel pla 0.4 N*m 30V AC/DC 2A -25°C + 85°C NBR	12M18000 or M12 series field LY SHIELDED Male	M12 A-Coded <b>12F112000</b> Straight 180° PG9 standard Circular connect attachable TOTA Female 12poles Black Solder contacts - Brass + Nickel pl 0.4 N*m 30V AC/DC 1.5A -25°C + 85°C NBR	12M112000       tor M12 series fie       ILLY SHIELDED       Male       Iated       sh
Construction type Part number Housing type Cable gland Description Contacts type Number of contacts Housing colour Technical data Type of termination Contact screw torque Housing material Contacts material Coupling nut type M8 coupling nut torque Rated voltage Rated current Temperature range O-ring material	M12 A-Coded <b>12F14000</b> Straight 180° PG9 standard Circular connect attachable TOTAI Female 4poles Black Screw contacts 0.2 N*m Brass + Nickel pla Brass + Nickel pla 0.4 N*m 250V AC/DC 4A -25°C + 85°C NBR	12M14000       or M12 series field       LLY SHIELDED       Male       ated       h	M12 A-Coded <b>12F15000</b> Straight 180° PG9 standard Circular connecto attachable TOTAL Female 5poles Black Screw contacts 0.2 N*m Brass+Nickel plat Brass+Nickel plat Brass+Nickel plat 0.4 N*m 60V AC/DC 4A -25°C +85°C NBR	r M12 series field LY SHIELDED Male ted	M12 A-Coded 12F18000 Straight 180° PG9 standard Circular connecte attachable TOTAL Female 8poles Black Screw contacts 0.2 N*m Brass + Nickel pla Brass + Kickel pla 0.4 N*m 30V AC/DC 2A -25°C + 85°C NBR	12M18000 or M12 series field LY SHIELDED Male	M12 A-Coded <b>12F112000</b> Straight 180° PG9 standard Circular connect attachable TOTA Female 12poles Black Solder contacts - Brass + Nickel pl 0.4 N*m 30V AC/DC 1.5A -25°C + 85°C NBR	12M112000 tor M12 series fie LLY SHIELDED Male lated sh
Construction type Part number Housing type Cable gland Description Contacts type Number of contacts Housing colour Technical data Type of termination Contact screw torque Housing material Contacts material Coupling nut type M8 coupling nut material M8 coupling nut torque Rated voltage Rated current Temperature range O-ring material Suitable cable Packaging	M12 A-Coded <b>12F14000</b> Straight 180° PG9 standard Circular connect attachable TOTAI Female 4poles Black Screw contacts 0.2 N*m Brass + Nickel pla Brass + Nickel pla Brass + Nickel pla Brass + Nickel pla Brass + Nickel pla C.4 N*m 250V AC/DC 4A -25°C + 85°C NBR Ø 4 - 8mm	12M14000       or M12 series field       LLY SHIELDED       Male       ated       h	M12 A-Coded 12F15000 Straight 180° PG9 standard Circular connecto attachable TOTAL Fernale 5poles Black Screw contacts 0.2 N*m Brass + Nickel plat Brass + Nickel plat 0.4 N*m 60V AC/DC 4A -25°C +85°C NBR ø 4 - 8mm	r M12 series field LY SHIELDED Male ted	M12 A-Coded 12F18000 Straight 180° PG9 standard Circular connecte attachable TOTAL Female 8poles Black Screw contacts 0.2 N*m Brass + Nickel pla Brass + Nickel pla Brass + Nickel pla Brass + Nickel pla 0.4 N*m 30V AC/DC 2A -25°C + 85°C NBR ø 4 - 8mm	12M18000 or M12 series field LY SHIELDED Male	M12 A-Coded <b>12F112000</b> Straight 180° PG9 standard Circular connect attachable TOTA Female 12poles Black Solder contacts - Brass + Nickel pl Brass + Nickel pl Brass + Nickel pl 0.4 N*m 30V AC/DC 1.5A -25°C + 85°C NBR ø 4 - 8mm	12M112000       tor M12 series fie       ILLY SHIELDED       Male       Iated       sh

See the general features and codification scheme page



A-coded - Field attachable connectors



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A-coded - Field attachable connectors



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Technical drawing	o <b></b> 1	o	o	Q 3 2 m	
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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				
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		2.40.1			
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	
		Hexagonal (SW17)	Hexagonal (SW17)	Hexagonal (SW17)	
Coupling nut type	Hexagonal (SW17)		- , ,	Brass+Nickel plated	
Coupling nut type M12 coupling nut material	Hexagonal (SW17) Brass+Nickel plated	Brass+Nickel plated	Brass+Nickel plated	Bradd i Midital platoa	
		Brass+Nickel plated 0.6 N*m	Brass + Nickel plated 0.6 N*m	0.6 N*m	
M12 coupling nut material	Brass+Nickel plated	•	•		
M12 coupling nut material M12 coupling nut torque	Brass+Nickel plated 0.6 N*m	0.6 N*m	0.6 N*m	0.6 N*m	
M12 coupling nut material M12 coupling nut torque Rated voltage	Brass + Nickel plated 0.6 N*m 250V AC/DC	0.6 N*m 125V AC/DC	0.6 N*m 60V AC/DC	0.6 N*m 30V AC/DC	
M12 coupling nut material M12 coupling nut torque Rated voltage Rated current	Brass + Nickel plated 0.6 N*m 250V AC/DC 4A	0.6 N*m 125V AC/DC 4A	0.6 N*m 60V AC/DC 2A	0.6 N*m 30V AC/DC 1A	
M12 coupling nut material M12 coupling nut torque Rated voltage Rated current Temperature range	Brass + Nickel plated 0.6 N*m 250V AC/DC 4A -20°C +85°C	0.6 N*m 125V AC/DC 4A -20°C +85°C	0.6 N*m 60V AC/DC 2A -20°C +85°C	0.6 N*m 30V AC/DC 1A -20°C +85°C	
M12 coupling nut material M12 coupling nut torque Rated voltage Rated current Temperature range O-ring material Suitable cable	Brass + Nickel plated           0.6 N*m           250V AC/DC           4A           -20°C + 85°C           NBR	0.6 N*m 125V AC/DC 4A -20°C +85°C NBR	0.6 N*m 60V AC/DC 2A -20°C +85°C NBR	0.6 N*m 30V AC/DC 1A -20°C +85°C NBR	
M12 coupling nut material M12 coupling nut torque Rated voltage Rated current Temperature range O-ring material Suitable cable Packaging	Brass + Nickel plated 0.6 N*m 250V AC/DC 4A -20°C +85°C NBR Ø 4 - 6mm	0.6 N*m 125V AC/DC 4A -20°C +85°C NBR Ø 4 - 6mm	0.6 N*m 60V AC/DC 2A -20°C + 85°C NBR Ø 4 - 6mm	0.6 N*m 30V AC/DC 1A -20°C +85°C NBR Ø 4 - 6mm	
M12 coupling nut material M12 coupling nut torque Rated voltage Rated current Temperature range O-ring material Suitable cable Packaging Qty/Bag	Brass + Nickel plated           0.6 N*m           250V AC/DC           4A           -20°C + 85°C           NBR	0.6 N*m 125V AC/DC 4A -20°C +85°C NBR	0.6 N*m 60V AC/DC 2A -20°C +85°C NBR	0.6 N*m 30V AC/DC 1A -20°C +85°C NBR	
M12 coupling nut material M12 coupling nut torque Rated voltage Rated current Temperature range O-ring material Suitable cable Packaging	Brass + Nickel plated 0.6 N*m 250V AC/DC 4A -20°C +85°C NBR Ø 4 - 6mm	0.6 N*m 125V AC/DC 4A -20°C +85°C NBR Ø 4 - 6mm	0.6 N*m 60V AC/DC 2A -20°C + 85°C NBR Ø 4 - 6mm	0.6 N*m 30V AC/DC 1A -20°C +85°C NBR Ø 4 - 6mm	

See the general features and codification scheme page



A-coded - Field attachable connectors

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	Ì	30	C)	93	e)	-	<b>A</b>	90
Zechnical drawing	0		o(1 o(2 o(3 o(4 o(5		0       (1)         0       (2)         0       (3)         0       (4)         0       (5)         0       (6)         0       (7)	0       1         0       2         0       3         0       4         0       5         0       6         0       6	o     (1)       o     (2)       o     (3)       o     (4)       o     (5)       o     (6)       o     (7)	0
			5-4 <u>5-W17</u> 3			• • • • • • • • • • • • • • • • • • •	C C C C C C C C C C C C C C C C C C C	
Product description					[=		16	5 1 /
Connector type	Circular connect	or field attachable	Circular connecto	or field attachable	Circular connecto	or field attachable	Circular connec	tor field attachable
Conforms to	IEC 61076-2-10	1	IEC 61076-2-101		IEC 61076-2-101		IEC 61076-2-10	01
Construction type	M12 A-Coded		M12 A-Coded		M12 A-Coded		M12 A-Coded	
Part number		12M14000-ATEX		12M15000-ATEX		12M18000-ATEX		EX 12M112000-AT
Housing type	Straight 180°		Straight 180°		Straight 180°		Straight 180°	
Cable gland	PG9 standard		PG9 standard		PG9 standard		PG9 standard	
Description	attachable TOTA ATEX conform.	or M12 series field LLY SHIELDED,	attachable TOTAL ATEX conform.	or M12 series field LLY SHIELDED,	attachable TOTAI ATEX conform.	or M12 series field LLY SHIELDED,		tor M12 series fiel ALLY SHIELDED,
	Female	Male	Female	Male	Female	Male	Female	Male
Contacts type	remaie			_	<b>a</b> .		12poles	
	4poles		5poles		8poles			
Number of contacts			5poles Metal		8poles Metal		Metal	
Number of contacts Housing colour	4poles		•				Metal	
Number of contacts Housing colour Fechnical data	4poles Metal		•		Metal			
Number of contacts Housing colour Fechnical data Type of termination	4poles		Metal				Metal Solder contacts	:
Number of contacts Housing colour Technical data Type of termination Contact screw torque	4poles Metal Screw contacts	ated	Metal Screw contacts	Ited	Metal Screw contacts	ited		
Number of contacts Housing colour Fechnical data Type of termination Contact screw torque Housing material	4poles Metal Screw contacts 0.2 N*m		Metal Screw contacts 0.2 N*m		Metal Screw contacts 0.2 N*m		Solder contacts	plated
Number of contacts Housing colour Technical data Type of termination Contact screw torque Housing material Contacts material	4poles Metal Screw contacts 0.2 N*m Brass+Nickel pl	h	Metal Screw contacts 0.2 N*m Brass+Nickel pla	h	Metal Screw contacts 0.2 N*m Brass+Nickel pla	h	Solder contacts - Brass+Nickel p	olated sh
Contacts type Number of contacts Housing colour Technical data Type of termination Contact screw torque Housing material Contacts material Coupling nut type M12 coupling nut material	4poles Metal Screw contacts 0.2 N*m Brass + Nickel pl Brass + Gold flas	h 7)	Metal Screw contacts 0.2 N*m Brass+Nickel pla Brass+Gold flast	h 7)	Metal Screw contacts 0.2 N*m Brass+Nickel pla Brass+Gold flast	h 7)	Solder contacts - Brass+Nickel p Brass+Gold fla	olated sh 17)
Number of contacts Housing colour Technical data Type of termination Contact screw torque Housing material Contacts material Coupling nut type M12 coupling nut material	4poles Metal Screw contacts 0.2 N*m Brass + Nickel pl Brass + Gold flas Hexagonal (SW1	h 7)	Metal Screw contacts 0.2 N*m Brass + Nickel pla Brass + Gold flasl Hexagonal (SW1	h 7)	Metal Screw contacts 0.2 N*m Brass + Nickel pla Brass + Gold flas Hexagonal (SW1	h 7)	Solder contacts - Brass + Nickel p Brass + Gold fla Hexagonal (SW	olated sh 17)
Number of contacts Housing colour Technical data Type of termination Contact screw torque Housing material Contacts material Coupling nut type M12 coupling nut material M12 coupling nut torque	4poles Metal Screw contacts 0.2 N*m Brass + Nickel pl. Brass + Gold flas Hexagonal (SW1 Brass + Nickel pl.	h 7)	Metal Screw contacts 0.2 N*m Brass + Nickel pla Brass + Gold flas Hexagonal (SW1 Brass + Nickel pla	h 7)	Metal Screw contacts 0.2 N*m Brass + Nickel pla Brass + Gold flas Hexagonal (SW1 Brass + Nickel pla	h 7)	Solder contacts - Brass + Nickel p Brass + Gold fla Hexagonal (SW Brass + Nickel p	olated sh 17)
Number of contacts Housing colour Technical data Type of termination Contact screw torque Housing material Contacts material Contacts material Coupling nut type	4poles Metal Screw contacts 0.2 N*m Brass + Nickel pl. Brass + Gold flas Hexagonal (SW1 Brass + Nickel pl. 0.6 N*m	h 7)	Metal Screw contacts 0.2 N*m Brass + Nickel pla Brass + Gold flasl Hexagonal (SW1 Brass + Nickel pla 0.6 N*m	h 7)	Metal Screw contacts 0.2 N*m Brass + Nickel pla Brass + Gold flas Hexagonal (SW1 Brass + Nickel pla 0.6 N*m	h 7)	Solder contacts - Brass + Nickel p Brass + Gold fla Hexagonal (SW Brass + Nickel p 0.6 N*m	olated sh 17)
Number of contacts Housing colour Technical data Type of termination Contact screw torque Housing material Contacts material Coupling nut type M12 coupling nut material M12 coupling nut torque Rated voltage Rated current Temperature range	4poles Metal Screw contacts 0.2 N*m Brass + Nickel pl. Brass + Gold flas Hexagonal (SW1 Brass + Nickel pl. 0.6 N*m 250V AC/DC	h 7)	Metal Screw contacts 0.2 N*m Brass + Nickel pla Brass + Gold flasl Hexagonal (SW1 Brass + Nickel pla 0.6 N*m 125V AC/DC	h 7)	Metal Screw contacts 0.2 N*m Brass + Nickel pla Brass + Gold flas Hexagonal (SW1 Brass + Nickel pla 0.6 N*m 60V AC/DC	h 7)	Solder contacts - Brass + Nickel p Brass + Gold fla Hexagonal (SW Brass + Nickel p 0.6 N*m 30V AC/DC	olated sh 17)
Number of contacts Housing colour Technical data Type of termination Contact screw torque Housing material Contacts material Coupling nut type M12 coupling nut material M12 coupling nut torque Rated voltage Rated current Temperature range O-ring material	4poles Metal Screw contacts 0.2 N*m Brass + Nickel pl: Brass + Gold flas Hexagonal (SW1 Brass + Nickel pl: 0.6 N*m 250V AC/DC 4A -20°C +85°C NBR	h 7)	Metal Screw contacts 0.2 N*m Brass + Nickel pla Brass + Oid flas Hexagonal (SW1' Brass + Nickel pla 0.6 N*m 125V AC/DC 4A -20°C + 85°C NBR	h 7)	Metal Screw contacts 0.2 N*m Brass + Nickel pla Brass + Gold flas Hexagonal (SW1 Brass + Nickel pla 0.6 N*m 60V AC/DC 2A	h 7)	Solder contacts - Brass + Nickel p Brass + Gold fla Hexagonal (SW Brass + Nickel p 0.6 N*m 30V AC/DC 1A	olated sh 17)
Number of contacts Housing colour Technical data Type of termination Contact screw torque Housing material Contacts material Coupling nut type M12 coupling nut material M12 coupling nut torque Rated voltage	4poles Metal Screw contacts 0.2 N*m Brass + Nickel pl: Brass + Gold flas Hexagonal (SW1 Brass + Nickel pl: 0.6 N*m 250V AC/DC 4A -20°C + 85°C	h 7)	Metal Screw contacts 0.2 N*m Brass + Nickel pla Brass + Gold flas Hexagonal (SW1' Brass + Nickel pla 0.6 N*m 125V AC/DC 4A -20°C + 85°C	h 7)	Metal Screw contacts 0.2 N*m Brass + Nickel pla Brass + Gold flass Hexagonal (SW1' Brass + Nickel pla 0.6 N*m 60V AC/DC 2A -20°C + 85°C	h 7)	Solder contacts - Brass + Nickel p Brass + Gold fla Hexagonal (SW Brass + Nickel p 0.6 N*m 30V AC/DC 1A -20°C +85°C	olated sh 17)
Number of contacts         Housing colour         Fechnical data         Type of termination         Contact screw torque         Housing material         Contacts material         Coupling nut type         M12 coupling nut torque         Rated voltage         Rated voltage         D-ring material         Suitable cable	4poles Metal Screw contacts 0.2 N*m Brass + Nickel pl: Brass + Gold flas Hexagonal (SW1 Brass + Nickel pl: 0.6 N*m 250V AC/DC 4A -20°C +85°C NBR	h 7)	Metal Screw contacts 0.2 N*m Brass + Nickel pla Brass + Oid flas Hexagonal (SW1' Brass + Nickel pla 0.6 N*m 125V AC/DC 4A -20°C + 85°C NBR	h 7)	Metal Screw contacts 0.2 N*m Brass + Nickel pla Brass + Gold flas Hexagonal (SW1' Brass + Nickel pla 0.6 N*m 60V AC/DC 2A -20°C + 85°C NBR	h 7)	Solder contacts - Brass + Nickel p Brass + Gold fla Hexagonal (SW Brass + Nickel p 0.6 N*m 30V AC/DC 1A -20°C +85°C NBR	olated sh 17)
Number of contacts Housing colour Technical data Type of termination Contact screw torque Housing material Contacts material Coupling nut type M12 coupling nut material M12 coupling nut torque Rated voltage Rated current Temperature range O-ring material Suitable cable Packaging	4poles Metal Screw contacts 0.2 N*m Brass + Nickel pla Brass + Gold flas Hexagonal (SW1 Brass + Nickel pla 0.6 N*m 250V AC/DC 4A -20°C +85°C NBR Ø 4 - 8mm	h 7)	Metal Screw contacts 0.2 N*m Brass + Nickel pla Brass + Gold flas Hexagonal (SW1 Brass + Nickel pla 0.6 N*m 125V AC/DC 4A -20°C + 85°C NBR Ø 4 - 8mm	h 7)	Metal Screw contacts 0.2 N*m Brass + Nickel pla Brass + Gold flas Hexagonal (SW1 Brass + Nickel pla 0.6 N*m 60V AC/DC 2A -20°C + 85°C NBR Ø 4 - 8mm	h 7)	Solder contacts - Brass + Nickel p Brass + Gold fla Hexagonal (SW Brass + Nickel p 0.6 N*m 30V AC/DC 1A -20°C + 85°C NBR Ø 4 - 8mm	olated sh 17)
Number of contacts Housing colour Technical data Type of termination Contact screw torque Housing material Contacts material Coupling nut type M12 coupling nut material M12 coupling nut torque Rated voltage Rated current Temperature range O-ring material Suitable cable Packaging Qty/Bag	4poles Metal Screw contacts 0.2 N*m Brass + Nickel pl: Brass + Gold flas Hexagonal (SW1 Brass + Nickel pl: 0.6 N*m 250V AC/DC 4A -20°C +85°C NBR	h 7)	Metal Screw contacts 0.2 N*m Brass + Nickel pla Brass + Oid flas Hexagonal (SW1' Brass + Nickel pla 0.6 N*m 125V AC/DC 4A -20°C + 85°C NBR	h 7)	Metal Screw contacts 0.2 N*m Brass + Nickel pla Brass + Gold flas Hexagonal (SW1' Brass + Nickel pla 0.6 N*m 60V AC/DC 2A -20°C + 85°C NBR	h 7)	Solder contacts - Brass + Nickel p Brass + Gold fla Hexagonal (SW Brass + Nickel p 0.6 N*m 30V AC/DC 1A -20°C +85°C NBR	olated sh 17)
Number of contacts Housing colour Technical data Type of termination Contact screw torque Housing material Contacts material Coupling nut type M12 coupling nut material M12 coupling nut torque Rated voltage Rated voltage Rated current Temperature range O-ring material Suitable cable Packaging	4poles Metal Screw contacts 0.2 N*m Brass + Nickel pla Brass + Gold flas Hexagonal (SW1 Brass + Nickel pla 0.6 N*m 250V AC/DC 4A -20°C +85°C NBR Ø 4 - 8mm	h 7)	Metal Screw contacts 0.2 N*m Brass + Nickel pla Brass + Gold flas Hexagonal (SW1 Brass + Nickel pla 0.6 N*m 125V AC/DC 4A -20°C + 85°C NBR Ø 4 - 8mm	h 7)	Metal Screw contacts 0.2 N*m Brass + Nickel pla Brass + Gold flas Hexagonal (SW1 Brass + Nickel pla 0.6 N*m 60V AC/DC 2A -20°C + 85°C NBR Ø 4 - 8mm	h 7)	Solder contacts - Brass + Nickel p Brass + Gold fla Hexagonal (SW Brass + Nickel p 0.6 N*m 30V AC/DC 1A -20°C + 85°C NBR Ø 4 - 8mm	olated sh 17)

B-coded - Field attachable connectors



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Technical drawing							
o( 1 o( 2 o( 3 o( 4			PERIOD PERIOD		69		
5 5 4 5 4 3	97000 P67		8022 PCfil				
Product description						-	
Connector type	Circular connecto	or field attachable	Circular connecto	or field attachable	Circular connecto	or field attachable	Circular connector field attachabl
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-12FB5000-SK	
Housing type	Straight 180°	Angled 90°	Straight 180°	Angled 90°	Straight 180°	Angled 90°	Straight 180°
Cable gland	PG7 standard	0	PG9-11 unified /		SK model	0	PG9 standard
Description	Circular connecto B-coded,field atta		Circular connector B-coded,field atta		Circular connector B-coded,field atta		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							1
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	1	Brass+Gold flas	1	Brass+Gold flash	1	Brass+Gold flash
Coupling nut type	Knurl round		Knurl round		Knurl round		Knurl round
M12 coupling nut material	Brass+Nickel pla	ted	Brass+Nickel pla	ated	Brass+Nickel pla	ated	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 ø5mn	n(max.)	ø 4 - 8.6mm		ø 4 - 8mm
Packaging					1		1 pg / bgg
Packaging Qty/Bag	1 pc / baq		1 pc / bag		I pc / bag		T pc / bay
Packaging Qty/Bag Other accessories options	1 pc / bag		1 pc / bag		1 pc / bag		1 pc / bag

See the cables list section



B-coded - Field attachable connectors

	Ø		Ø		Ø		<u>e</u>
Technical drawing       □     1       □     2       □     3       □     4		-52				-39.5	, 217
			802 PGI				
Product description							
Connector type	Circular connecto	or field attachable	Circular connecto	or field attachable	Circular connecto	r field attachable	Circular connector field attach
			150 01070 0 101		150 01070 0 101		
Conforms to	IEC 61076-2-101	1	IEC 61076-2-101		IEC 61076-2-101		IEC 61076-2-101
	IEC 61076-2-101 M12 B-Coded	1	M12 B-Coded		M12 B-Coded		IEC 61076-2-101 M12 B-Coded
Construction type	M12 B-Coded B-12MC5000	B-12MB5000	M12 B-Coded B-12ML5000	B-12MU5000	M12 B-Coded	B-12MB5000-SK	M12 B-Coded
Construction type Part number	M12 B-Coded		M12 B-Coded		M12 B-Coded	<b>B-12MB5000-SK</b> Angled 90°	M12 B-Coded
Construction type Part number Housing type	M12 B-Coded B-12MC5000 Straight 180° PG7 standard	<b>B-12MB5000</b> Angled 90°	M12 B-Coded B-12ML5000	<b>B-12MU5000</b> Angled 90°	M12 B-Coded B-12MC5000-SK Straight 180° SK model	Angled 90°	M12 B-Coded B-12M15000 Straight 180° PG9 standard
Construction type Part number Housing type Cable gland	M12 B-Coded <b>B-12MC5000</b> Straight 180°	B-12MB5000 Angled 90°	M12 B-Coded <b>B-12ML5000</b> Straight 180°	<b>B-12MU5000</b> Angled 90° Double cable exit or M12 series	M12 B-Coded <b>B-12MC5000-SK</b> Straight 180°	Angled 90° r M12 series	M12 B-Coded B-12M15000 Straight 180°
Construction type Part number Housing type Cable gland Description	M12 B-Coded B-12MC5000 Straight 180° PG7 standard Circular connected	B-12MB5000 Angled 90°	M12 B-Coded B-12ML5000 Straight 180° PG9-11 unified /I Circular connecto	<b>B-12MU5000</b> Angled 90° Double cable exit or M12 series	M12 B-Coded B-12MC5000-SK Straight 180° SK model Circular connecto	Angled 90° r M12 series	M12 B-Coded <b>B-12M15000</b> Straight 180° PG9 standard Circular connector M12 series
Construction type Part number Housing type Cable gland Description Contacts type	M12 B-Coded <b>B-12MC5000</b> Straight 180° PG7 standard Circular connect B-coded, field atta	B-12MB5000 Angled 90°	M12 B-Coded B-12ML5000 Straight 180° PG9-11 unified // Circular connector B-coded,field atta	<b>B-12MU5000</b> Angled 90° Double cable exit or M12 series	M12 B-Coded B-12MC5000-SK Straight 180° SK model Circular connecto B-coded,field atta	Angled 90° r M12 series	M12 B-Coded <b>B-12M15000</b> Straight 180° PG9 standard Circular connector M12 series B-coded, field attachable
Construction type Part number Housing type Cable gland Description Contacts type Number of contacts	M12 B-Coded <b>B-12MC5000</b> Straight 180° PG7 standard Circular connecte B-coded,field atta Male	B-12MB5000 Angled 90°	M12 B-Coded B-12ML5000 Straight 180° PG9-11 unified // Circular connecte B-coded,field atta Male	<b>B-12MU5000</b> Angled 90° Double cable exit or M12 series	M12 B-Coded B-12MC5000-SK Straight 180° SK model Circular connecto B-coded,field atta Male	Angled 90° r M12 series	M12 B-Coded <b>B-12M15000</b> Straight 180° PG9 standard Circular connector M12 series B-coded, field attachable Male
Construction type Part number Housing type Cable gland Description Contacts type Number of contacts Housing colour	M12 B-Coded <b>B-12MC5000</b> Straight 180° PG7 standard Circular connecte B-coded,field atta Male 5poles	B-12MB5000 Angled 90°	M12 B-Coded B-12ML5000 Straight 180° PG9-11 unified // Circular connecte B-coded,field atta Male Spoles	<b>B-12MU5000</b> Angled 90° Double cable exit or M12 series	M12 B-Coded B-12MC5000-SK Straight 180° SK model Circular connecto B-coded,field attat Male 5poles	Angled 90° r M12 series	M12 B-Coded <b>B-12M15000</b> Straight 180° PG9 standard Circular connector M12 series B-coded, field attachable Male 5poles
Construction type Part number Housing type Cable gland Description Contacts type Number of contacts Housing colour echnical data	M12 B-Coded <b>B-12MC5000</b> Straight 180° PG7 standard Circular connecte B-coded,field atta Male 5poles	B-12MB5000 Angled 90°	M12 B-Coded B-12ML5000 Straight 180° PG9-11 unified // Circular connecte B-coded,field atta Male Spoles	<b>B-12MU5000</b> Angled 90° Double cable exit or M12 series	M12 B-Coded B-12MC5000-SK Straight 180° SK model Circular connecto B-coded,field attat Male 5poles	Angled 90° r M12 series	M12 B-Coded <b>B-12M15000</b> Straight 180° PG9 standard Circular connector M12 series B-coded, field attachable Male 5poles
Construction type Part number Housing type Cable gland Description Contacts type Number of contacts Housing colour echnical data Type of termination	M12 B-Coded <b>B-12MC5000</b> Straight 180° PG7 standard Circular connecte B-coded,field atta Male Spoles Black	B-12MB5000 Angled 90°	M12 B-Coded B-12ML5000 Straight 180° PG9-11 unified // Circular connecto B-coded,field atta Male 5poles Black	<b>B-12MU5000</b> Angled 90° Double cable exit or M12 series	M12 B-Coded B-12MC5000-SK Straight 180° SK model Circular connecto B-coded,field atta Male 5poles Black	Angled 90° r M12 series	M12 B-Coded <b>B-12M15000</b> Straight 180° PG9 standard Circular connector M12 series B-coded, field attachable Male 5poles Metal
Construction type Part number Housing type Cable gland Description Contacts type Number of contacts Housing colour <b>rechnical data</b> Type of termination Contact screw torque	M12 B-Coded <b>B-12MC5000</b> Straight 180° PG7 standard Circular connecte B-coded,field atta Male Spoles Black Screw contacts	B-12MB5000 Angled 90°	M12 B-Coded B-12ML5000 Straight 180° PG9-11 unified // Circular connecto B-coded,field atta Male 5poles Black Screw contacts	<b>B-12MU5000</b> Angled 90° Double cable exit or M12 series	M12 B-Coded B-12MC5000-SK Straight 180° SK model Circular connecto B-coded, field atta Male 5poles Black Screw contacts	Angled 90° r M12 series	M12 B-Coded <b>B-12M15000</b> Straight 180° PG9 standard Circular connector M12 series B-coded, field attachable Male 5poles Metal Screw contacts 0.2 N*m Brass + Nickel plated
Construction type Part number Housing type Cable gland Description Contacts type Number of contacts Housing colour echnical data Type of termination Contact screw torque Housing material Contacts material	M12 B-Coded B-12MC5000 Straight 180° PG7 standard Circular connect B-coded, field atta Male 5poles Black Screw contacts 0.2 N*m PA66 UL94-V2 Brass+Gold flast	B-12MB5000 Angled 90° or M12 series achable	M12 B-Coded <b>B-12ML5000</b> Straight 180° PG9-11 unified // Circular connect B-coded, field atta Male 5poles Black Screw contacts 0.2 N*m PA66 UL94-V2 Brass+Gold flast	B-12MU5000 Angled 90° Double cable exit or M12 series achable	M12 B-Coded B-12MC5000-SK Straight 180° SK model Circular connecto B-coded,field atta Male 5poles Black Screw contacts 0.2 N*m PA66 UL94-V2 Brass+Gold flash	Angled 90° r M12 series chable	M12 B-Coded <b>B-12M15000</b> Straight 180° PG9 standard Circular connector M12 series B-coded, field attachable Male 5poles Metal Screw contacts 0.2 N*m Brass + Nickel plated Brass + Gold flash
Construction type Part number Housing type Cable gland Description Contacts type Number of contacts Housing colour echnical data Type of termination Contact screw torque Housing material Contacts material Coupling nut type	M12 B-Coded B-12MC5000 Straight 180° PG7 standard Circular connect B-coded, field atta Male 5poles Black Screw contacts 0.2 N*m PA66 UL94-V2 Brass + Gold flast Knurl round	h	M12 B-Coded <b>B-12ML5000</b> Straight 180° PG9-11 unified // Circular connect B-coded, field atta Male 5poles Black Screw contacts 0.2 N*m PA66 UL94-V2 Brass + Gold flast Knurl round	B-12MU5000 Angled 90° Double cable exit or M12 series achable	M12 B-Coded B-12MC5000-SK Straight 180° SK model Circular connecto B-coded,field atta Male 5poles Black Screw contacts 0.2 N*m PA66 UL94-V2 Brass + Gold flash Knurl round	Angled 90° r M12 series chable	M12 B-Coded <b>B-12M15000</b> Straight 180° PG9 standard Circular connector M12 series B-coded, field attachable Male 5poles Metal Screw contacts 0.2 N*m Brass + Nickel plated Brass + Gold flash Knurl round
Construction type Part number Housing type Cable gland Description Contacts type Number of contacts Housing colour Cechnical data Type of termination Contact screw torque Housing material Contacts material Coupling nut type M12 coupling nut material	M12 B-Coded B-12MC5000 Straight 180° PG7 standard Circular connect B-coded, field atta Male 5poles Black Screw contacts 0.2 N*m PA66 UL94-V2 Brass + Gold flast Knurl round Brass + Nickel pla	h	M12 B-Coded <b>B-12ML5000</b> Straight 180° PG9-11 unified // Circular connecte B-coded, field atta Male 5poles Black Screw contacts 0.2 N*m PA66 UL94-V2 Brass + Gold flast Knurl round Brass + Nickel pla	B-12MU5000 Angled 90° Double cable exit or M12 series achable	M12 B-Coded B-12MC5000-SK Straight 180° SK model Circular connecto B-coded,field atta Male 5poles Black Screw contacts 0.2 N*m PA66 UL94-V2 Brass + Gold flash Knurl round Brass + Nickel plat	Angled 90° r M12 series chable	M12 B-Coded <b>B-12M15000</b> Straight 180° PG9 standard Circular connector M12 series B-coded, field attachable Male 5poles Metal Screw contacts 0.2 N*m Brass + Nickel plated Brass + Gold flash Knurl round Brass + Nickel plated
Construction type Part number Housing type Cable gland Description Contacts type Number of contacts Housing colour Cechnical data Type of termination Contact screw torque Housing material Contacts material Coupling nut type M12 coupling nut torque	M12 B-Coded B-12MC5000 Straight 180° PG7 standard Circular connect B-coded, field atta Male 5poles Black Screw contacts 0.2 N*m PA66 UL94-V2 Brass + Gold flast Knurl round Brass + Nickel pla 0.4 N*m	h	M12 B-Coded <b>B-12ML5000</b> Straight 180° PG9-11 unified // Circular connecte B-coded,field atta Male 5poles Black Screw contacts 0.2 N*m PA66 UL94-V2 Brass + Gold flast Knurl round Brass + Nickel pla 0.4 N*m	B-12MU5000 Angled 90° Double cable exit or M12 series achable	M12 B-Coded B-12MC5000-SK Straight 180° SK model Circular connecto B-coded,field atta Male 5poles Black Screw contacts 0.2 N*m PA66 UL94-V2 Brass + Gold flash Knurl round Brass + Nickel plat 0.4 N*m	Angled 90° r M12 series chable	M12 B-Coded <b>B-12M15000</b> Straight 180° PG9 standard Circular connector M12 series B-coded, field attachable Male 5poles Metal Screw contacts 0.2 N*m Brass + Nickel plated Brass + Gold flash Knurl round Brass + Nickel plated 0.4 N*m
Construction type Part number Housing type Cable gland Description Contacts type Number of contacts Housing colour 'echnical data Type of termination Contact screw torque Housing material Contacts material Coupling nut type M12 coupling nut material M12 coupling nut torque Rated voltage	M12 B-Coded B-12MC5000 Straight 180° PG7 standard Circular connecte B-coded, field atta Male 5poles Black Screw contacts 0.2 N*m PA66 UL94-V2 Brass + Gold flasl Knurl round Brass + Nickel pla 0.4 N*m 60V AC/DC	h	M12 B-Coded <b>B-12ML5000</b> Straight 180° PG9-11 unified // Circular connecte B-coded,field atta Male 5poles Black Screw contacts 0.2 N*m PA66 UL94-V2 Brass + Gold flash Knurl round Brass + Nickel pla 0.4 N*m 60V AC/DC	B-12MU5000 Angled 90° Double cable exit or M12 series achable	M12 B-Coded B-12MC5000-SK Straight 180° SK model Circular connecto B-coded,field atta Male 5poles Black Screw contacts 0.2 N*m PA66 UL94-V2 Brass + Gold flash Knurl round Brass + Nickel plat 0.4 N*m 60V AC/DC	Angled 90° r M12 series chable	M12 B-Coded <b>B-12M15000</b> Straight 180° PG9 standard Circular connector M12 series B-coded, field attachable Male 5poles Metal Screw contacts 0.2 N*m Brass + Nickel plated Brass + Cold flash Knurl round Brass + Nickel plated 0.4 N*m 60V AC/DC
Construction type Part number Housing type Cable gland Description Contacts type Number of contacts Housing colour Fechnical data Type of termination Contact screw torque Housing material Contacts material Coupling nut type M12 coupling nut torque Rated voltage Rated current	M12 B-Coded         B-12MC5000         Straight 180°         PG7 standard         Circular connects         B-coded, field atta         Male         5poles         Black         Screw contacts         0.2 N*m         PA66 UL94-V2         Brass + Gold flasl         Knurl round         Brass + Nickel pla         0.4 N*m         60V AC/DC         4A	h	M12 B-Coded <b>B-12ML5000</b> Straight 180° PG9-11 unified // Circular connecte B-coded,field atta Male 5poles Black Screw contacts 0.2 N*m PA66 UL94-V2 Brass + Gold flash Knurl round Brass + Nickel pla 0.4 N*m 60V AC/DC 4A	B-12MU5000 Angled 90° Double cable exit or M12 series achable	M12 B-Coded B-12MC5000-SK Straight 180° SK model Circular connecto B-coded,field atta Male 5poles Black Screw contacts 0.2 N*m PA66 UL94-V2 Brass + Gold flash Knurl round Brass + Nickel plat 0.4 N*m 60V AC/DC 4A	Angled 90° r M12 series chable	M12 B-Coded <b>B-12M15000</b> Straight 180° PG9 standard Circular connector M12 series B-coded, field attachable Male 5poles Metal Screw contacts 0.2 N*m Brass + Nickel plated Brass + Nickel plated Brass + Nickel plated 0.4 N*m 60V AC/DC 4A
Construction type Part number Housing type Cable gland Description Contacts type Number of contacts Housing colour rechnical data Type of termination Contact screw torque Housing material Contacts material Coupling nut type M12 coupling nut torque Rated voltage Rated current Temperature range	M12 B-Coded         B-12MC5000         Straight 180°         PG7 standard         Circular connects         B-coded, field atta         Male         5poles         Black         Screw contacts         0.2 N*m         PA66 UL94-V2         Brass + Gold flast         Knurl round         Brass + Nickel pla         0.4 N*m         60V AC/DC         4A         -40°C + 90°C	h	M12 B-Coded <b>B-12ML5000</b> Straight 180° PG9-11 unified // Circular connecte B-coded, field atta Male 5poles Black Screw contacts 0.2 N*m PA66 UL94-V2 Brass + Gold flast Knurl round Brass + Nickel pla 0.4 N*m 60V AC/DC 4A -40°C + 90°C	B-12MU5000 Angled 90° Double cable exit or M12 series achable	M12 B-Coded B-12MC5000-SK Straight 180° SK model Circular connecto B-coded,field atta Male 5poles Black Screw contacts 0.2 N*m PA66 UL94-V2 Brass + Gold flash Knurl round Brass + Nickel plat 0.4 N*m 60V AC/DC 4A -40°C +90°C	Angled 90° r M12 series chable	M12 B-Coded <b>B-12M15000</b> Straight 180° PG9 standard Circular connector M12 series B-coded, field attachable Male 5poles Metal Screw contacts 0.2 N*m Brass + Nickel plated Brass + Gold flash Knurl round Brass + Nickel plated 0.4 N*m 60V AC/DC 4A -25°C + 85°C
Construction type Part number Housing type Cable gland Description Contacts type Number of contacts Housing colour Fechnical data Type of termination Contacts material Contacts material Contacts material Coupling nut type M12 coupling nut torque Rated voltage Rated current Temperature range O-ring material	M12 B-Coded         B-12MC5000         Straight 180°         PG7 standard         Circular connecter         B-coded, field atta         Male         5poles         Black         Screw contacts         0.2 N*m         PA66 UL94-V2         Brass + Gold flast         Knurl round         Brass + Nickel plat         0.4 N*m         60V AC/DC         4A         -40°C + 90°C         NBR	h	M12 B-Coded <b>B-12ML5000</b> Straight 180° PG9-11 unified // Circular connecte B-coded,field atta Male 5poles Black Screw contacts 0.2 N*m PA66 UL94-V2 Brass + Gold flast Knurl round Brass + Nickel pla 0.4 N*m 60V AC/DC 4A -40°C + 90°C NBR	B-12MU5000 Angled 90° Double cable exit or M12 series achable	M12 B-Coded B-12MC5000-SK Straight 180° SK model Circular connecto B-coded,field atta Male 5poles Black Screw contacts 0.2 N*m PA66 UL94-V2 Brass + Gold flash Knurl round Brass + Nickel plat 0.4 N*m 60V AC/DC 4A -40°C +90°C NBR	Angled 90° r M12 series chable	M12 B-Coded <b>B-12M15000</b> Straight 180° PG9 standard Circular connector M12 series B-coded, field attachable Male 5poles Metal Screw contacts 0.2 N*m Brass + Nickel plated Brass + Gold flash Knurl round Brass + Nickel plated 0.4 N*m 60V AC/DC 4A -25°C + 85°C NBR
Construction type Part number Housing type Cable gland Description Contacts type Number of contacts Housing colour Fechnical data Type of termination Contacts material Contacts material Contacts material Coupling nut type M12 coupling nut torque Rated voltage Rated current Temperature range O-ring material	M12 B-Coded         B-12MC5000         Straight 180°         PG7 standard         Circular connects         B-coded, field atta         Male         5poles         Black         Screw contacts         0.2 N*m         PA66 UL94-V2         Brass + Gold flast         Knurl round         Brass + Nickel pla         0.4 N*m         60V AC/DC         4A         -40°C + 90°C	h	M12 B-Coded <b>B-12ML5000</b> Straight 180° PG9-11 unified // Circular connecte B-coded, field atta Male 5poles Black Screw contacts 0.2 N*m PA66 UL94-V2 Brass + Gold flast Knurl round Brass + Nickel pla 0.4 N*m 60V AC/DC 4A -40°C + 90°C	B-12MU5000 Angled 90° Double cable exit or M12 series achable	M12 B-Coded B-12MC5000-SK Straight 180° SK model Circular connecto B-coded,field atta Male 5poles Black Screw contacts 0.2 N*m PA66 UL94-V2 Brass + Gold flash Knurl round Brass + Nickel plat 0.4 N*m 60V AC/DC 4A -40°C +90°C	Angled 90° r M12 series chable	M12 B-Coded <b>B-12M15000</b> Straight 180° PG9 standard Circular connector M12 series B-coded, field attachable Male 5poles Metal Screw contacts 0.2 N*m Brass + Nickel plated Brass + Gold flash Knurl round Brass + Nickel plated 0.4 N*m 60V AC/DC 4A -25°C + 85°C
Construction type Part number Housing type Cable gland Description Contacts type Number of contacts Housing colour Fechnical data Type of termination Contact screw torque Housing material Contacts material Contacts material Coupling nut type M12 coupling nut material M12 coupling nut torque Rated voltage Rated current Temperature range O-ring material Suitable cable	M12 B-Coded         B-12MC5000         Straight 180°         PG7 standard         Circular connecter         B-coded, field atta         Male         5poles         Black         Screw contacts         0.2 N*m         PA66 UL94-V2         Brass + Gold flast         Knurl round         Brass + Nickel plat         0.4 N*m         60V AC/DC         4A         -40°C + 90°C         NBR	h	M12 B-Coded <b>B-12ML5000</b> Straight 180° PG9-11 unified // Circular connecte B-coded,field atta Male 5poles Black Screw contacts 0.2 N*m PA66 UL94-V2 Brass + Gold flash Knurl round Brass + Nickel pla 0.4 N*m 60V AC/DC 4A -40°C +90°C NBR Ø cable 4-8mm Ø cable 6-10mm	B-12MU5000 Angled 90° Double cable exit or M12 series achable	M12 B-Coded B-12MC5000-SK Straight 180° SK model Circular connecto B-coded,field atta Male 5poles Black Screw contacts 0.2 N*m PA66 UL94-V2 Brass + Gold flash Knurl round Brass + Nickel plat 0.4 N*m 60V AC/DC 4A -40°C +90°C NBR	Angled 90° r M12 series chable	M12 B-Coded <b>B-12M15000</b> Straight 180° PG9 standard Circular connector M12 series B-coded, field attachable Male 5poles Metal Screw contacts 0.2 N*m Brass + Nickel plated Brass + Gold flash Knurl round Brass + Nickel plated 0.4 N*m 60V AC/DC 4A -25°C + 85°C NBR
Contact screw torque Housing material Contacts material Coupling nut type M12 coupling nut material M12 coupling nut torque Rated voltage Rated current	M12 B-Coded         B-12MC5000         Straight 180°         PG7 standard         Circular connecter         B-coded, field atta         Male         5poles         Black         Screw contacts         0.2 N*m         PA66 UL94-V2         Brass + Gold flast         Knurl round         Brass + Nickel plat         0.4 N*m         60V AC/DC         4A         -40°C + 90°C         NBR	h	M12 B-Coded <b>B-12ML5000</b> Straight 180° PG9-11 unified // Circular connecte B-coded,field atta Male 5poles Black Screw contacts 0.2 N*m PA66 UL94-V2 Brass + Gold flash Knurl round Brass + Nickel pla 0.4 N*m 60V AC/DC 4A -40°C +90°C NBR Ø cable 4-8mm Ø cable 6-10mm	B-12MU5000 Angled 90° Double cable exit or M12 series achable	M12 B-Coded B-12MC5000-SK Straight 180° SK model Circular connecto B-coded,field atta Male 5poles Black Screw contacts 0.2 N*m PA66 UL94-V2 Brass + Gold flash Knurl round Brass + Nickel plat 0.4 N*m 60V AC/DC 4A -40°C +90°C NBR	Angled 90° r M12 series chable	M12 B-Coded <b>B-12M15000</b> Straight 180° PG9 standard Circular connector M12 series B-coded, field attachable Male 5poles Metal Screw contacts 0.2 N*m Brass + Nickel plated Brass + Gold flash Knurl round Brass + Nickel plated 0.4 N*m 60V AC/DC 4A -25°C + 85°C NBR
Construction type Part number Housing type Cable gland Description Contacts type Number of contacts Housing colour Fechnical data Type of termination Contact screw torque Housing material Contacts material Contacts material Coupling nut type M12 coupling nut material M12 coupling nut torque Rated voltage Rated current Temperature range O-ring material Suitable cable	M12 B-Coded B-12MC5000 Straight 180° PG7 standard Circular connecte B-coded, field atta Male 5poles Black Screw contacts 0.2 N*m PA66 UL94-V2 Brass + Gold flast Knurl round Brass + Nickel pla 0.4 N*m 60V AC/DC 4A -40°C + 90°C NBR ø 4 - 6mm	h	M12 B-Coded <b>B-12ML5000</b> Straight 180° PG9-11 unified // Circular connecto B-coded,field atta Male 5poles Black Screw contacts 0.2 N*m PA66 UL94-V2 Brass + Gold flast Knurl round Brass + Nickel pla 0.4 N*m 60V AC/DC 4A -40°C + 90°C NBR Ø cable 4-8mm Ø cable 6-10mm Double exit ø5mr	B-12MU5000 Angled 90° Double cable exit or M12 series achable	M12 B-Coded <b>B-12MC5000-SK</b> Straight 180° SK model Circular connecto B-coded,field atta Male 5poles Black Screw contacts 0.2 N*m PA66 UL94-V2 Brass + Gold flash Knurl round Brass + Nickel plat 0.4 N*m 60V AC/DC 4A -40°C +90°C NBR Ø 4 - 8.6mm	Angled 90° r M12 series chable	M12 B-Coded <b>B-12M15000</b> Straight 180° PG9 standard Circular connector M12 series B-coded, field attachable Male 5poles Metal Screw contacts 0.2 N*m Brass + Nickel plated Brass + Nickel plated Brass + Nickel plated 0.4 N*m 60V AC/DC 4A -25°C + 85°C NBR Ø 4 - 8mm

See the cables list section

B-coded - Field attachable connectors



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Technical drawing	oC 1	o <b>────</b> 1	
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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	
echnical 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			
<b>lotes:</b> Connectors available with different feautures See the general features and codification scl See the cables list section	eme page		



D-coded - Field attachable connectors

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Fechnical drawing								
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Product description								
Connector type	Circular conne	ctor field attachable	Circular connecto	r field attachable	Circular connecto	r field attachable	Circular connector field	attachable
Conforms to	IEC 61076-2-1	01	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 /I	Double cable exit	SK model		PG9 standard	
Description	Circular conne		Circular connecto		Circular connector M12 series		Circular connector M12	
	D-coded,field a	ttachable	D-coded,field atta	chable	D-coded,field atta	chable	D-coded,field attachable	1
Contacts type	Female		Female		Female		Female	
Number of contacts	4poles		4poles		4poles		4poles	
Housing colour	Black		Black		Black		Metal	
Fechnical data			-		1			
Type of termination	Screw contacts	5	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 fla		Brass+Gold flash		Brass+Gold flash		Brass+Gold flash	
Coupling nut type	Knurl round		Knurl round	·	Knurl round		Knurl round	
W12 coupling nut material	Brass+Nickel	nlated	Brass+Nickel pla	ted	Brass+Nickel plat	ed	Brass+Nickel plated	
W12 coupling nut torque	0.4 N*m	Jatou	0.4 N*m	lou	0.4 N*m	.00	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	
D-ring material	NBR		-40 C + 90 C		-40 C + 90 C		NBR	
Suitable cable	ø 4 - 6mm		ø cable 6-10mm		ø 4 - 8.6mm		ø 4 - 8mm	
	Ø 4 - 011111		Double exit ø5mm	(max.)	0 4 - 0.011111		94-011111	
Packaging								
Qty/Bag	1 pc / bag		1 pc / bag		1 pc / bag		1 pc / bag	
Other accessories options								
See accessories section								

D-coded - Field attachable connectors



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Technical drawing				-56		~39.5	
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	97/0.0						
Product description	PG7		P611	-	PG9	<b>7</b>	
Connector type	Circular connect	or field attachable	Circular connecto	or field attachable	Circular connecto	r field attachable	Circular connector field attachat
Conforms to	IEC 61076-2-10 <sup>-</sup>		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 connect	or M12 series	Circular connecto	or M12 series	Circular connecto	r M12 series	Circular connector M12 series
	D-coded, field att	achable	D-coded,field atta	achable	D-coded,field atta	chable	D-coded,field attachable
Contacts type	Male		Male		Male		Male
Number of contacts	4poles		4poles		4poles		4poles
Housing colour	Black		Black		Black		Metal
echnical 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 flas	h	Brass+Gold flas	1	Brass+Gold flash		Brass+Gold flash
Coupling nut type	Knurl round		Knurl round		Knurl round		Knurl round
M12 coupling nut material	Brass+Nickel pla	ated	Brass+Nickel pla	ited	Brass+Nickel plat	ed	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 ø5mn	n(max.)	ø 4 - 8.6mm		ø 4 - 8mm
Packaging							
Qty/Bag	1 pc / bag		1 pc / bag		1 pc / bag		1 pc / bag
ther accessories options							
See accessories section							
<b>lotes:</b> Connectors available with differe See the general features and co							



D-coded - Field attachable connectors

Technical drawing	0		
	1 4 5 MTT 3	3 3 5 5 5 5 5 5 5 5 5 5 4	
Product description			
Connector type	Circular connector field attachable	Circular connector field attachable	
Conforms to	IEC 61076-2-101	IEC 61076-2-101	
Construction type	M12 D-Coded	M12 D-Coded	
Part number	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			I
Qty/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 sch See the cables list section	: neme page		

Moulded cable connectors - General features and codification scheme



#### • GENERAL FEATURES OF MOULDED CONNECTORS:

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

Fixing system : M12 coupling nut.

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

Type of terminations : Crimped wires. Solder wires (8 poles - 12 poles). **Contact material and treatment :** Brass + Gold flash.

Housing material : Polyurethane.

PA66.

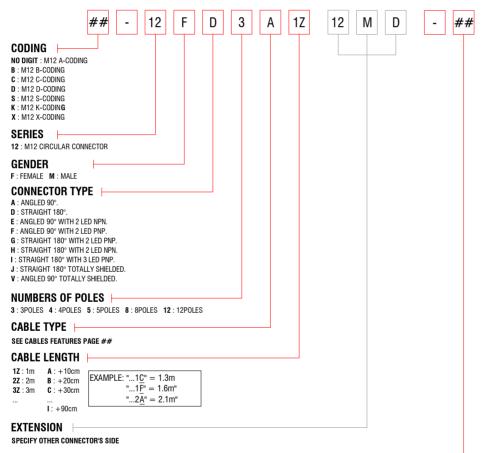
Internal core material :

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

**Operating temperature :** 

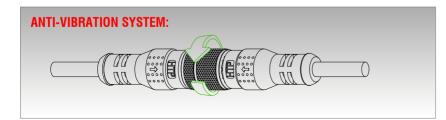
IP67/IP69K.

-25°C +90°C.



#### SOME VARIABLES

INOX : 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.





Moulded cable connectors - A-coded

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	vith moulded cable		with moulded cable		with moulded cable
Circular connector N cable	112 series with moulded	Circular connector M12 series with moulded cable		Circular connector M12 series with moulde cable	
12FD3B1Z	12FA3B1Z	12FD4B1Z 12FA4B1Z		12FD5B1Z 12FA5B1Z	
Straight 180°	Angled 90°	Straight 180°	Angled 90°	Straight 180°	Angled 90°
Moulded cable		Moulded cable		Moulded cable	
Female		Female		Female	
3poles					
Black		Black		Black	
Contacts to crimp w	ires	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	
		0.4 N*m		0.4 N*m	
		250V AC/DC			
NBR		NBR		NBR	
Black					
			Black		; Black; Grey
1m		1m		1m	
		1 pc / bag		1 pc / bag	
1 pc / bag		1 pc / bag		1 pc / bag	
	Circular connector w IEC 61076-2-101 M12 A-Coded Circular connector M cable <b>12FD3B1Z</b> Straight 180° Moulded cable Female 3poles Black Contacts to crimp w Brass + Gold flash Knurl round Brass + Nickel plated 0.4 N*m 250V AC/DC 4A NBR PVC/PVC CEI2022	$\begin{array}{c} \bullet & \bullet & \bullet \\ \bullet & \bullet & \bullet \\ \bullet & \bullet & \bullet \\ \bullet & \bullet &$	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         M12 A-Coded       M12 A-Coded         Circular connector M12 series with moulded cable       Circular connector icable         12FD3B1Z       12FA3B1Z         12FD3B1Z       12FA3B1Z         Straight 180°       Angled 90°         Moulded cable       Female         Straight 180°       Angled 90°         Straight 180°       Angled 90°         Straight 180°       Moulded cable         Female       Female         3poles       4poles         Black       Black         Contacts to crimp wires       Contacts to crimp vires         Contacts to crimp wir	Image: state of the state	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

Moulded cable connectors - A-coded



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O o         (1)           • o         (2)           • o         (3)           • o         (4)           • o         (5)           • o         (6)           • o         (7)           • o         (7)	8, <sup>2</sup> / <sub>3</sub>	$ \begin{array}{c} \circ & - & - & - & - & - & - \\ \circ & - & - & - & - & 2 \\ \circ & - & - & - & 2 \\ \circ & - & - & - & 2 \\ \circ & - & - & - & - & 2 \\ \circ & - & - & - & - & - & - \\ \circ & - & - & - & - & - \\ \circ & - & - & - & - & - \\ \circ & - & - & - & - & - \\ \circ & - & - & - & - & - \\ \circ & - & - & - & - & - \\ \circ & - & - & - & - & - \\ \circ & - & - & - & - & - \\ \circ & - & - & - & - & - \\ \circ & - & - & - & - & - \\ \circ & - & - & - & - & - \\ \circ & - & - & - & - & - \\ \circ & - & - & - & - & - \\ \circ & - & - & - & - & - \\ \circ & - & - & - & - & - \\ \circ & - & - & - & - & - \\ \circ & - & - & - & - & - \\ \circ & - & - & - \\ \circ & - & - & - & - \\ \circ & - & - & - & - \\ \circ & - & - & - & - \\ \circ & - & - & - & - \\ \circ & - & - & - & - \\ \circ & - & - & - \\ \circ & - & - & - & - \\ \circ & - & - & - & - \\ \circ & - & - & - & - \\ \circ & - & - & - & - \\ \circ & - & - & - & - \\ \circ & - & - & - & - \\ \circ & - & - & - & - \\ \circ & - & - & - & - \\ \circ & - & - & - & - \\ \circ & - & - & - \\ \circ & - & - $			1 4 3 1 • • • • • • • • • •		2
	4 7 3	$\bigcirc \circ \circ (9) \\ \bigcirc \circ \circ (10) \\ \bigcirc \circ \circ (11) \\ \bigcirc \circ \circ (12) \\ \odot \circ (12) \\ \bigcirc \circ \circ (12) \\ \circ $		1 4 3			
Product description							
Circular connector wi	th moulded cable	Circular connector wit	h moulded cable	Circular connector w	ith moulded cable	Circular connector wit	h 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 M <sup>-</sup> cable	12 series with moulded	Circular connector M1 cable	2 series with moulded	Circular connector M12 series n.2 Led <b>PNP</b> circuit (PIN1: GN;PIN4:YE)with moulded cable		Circular connector M12 series n.2 Led PNP circuit (PIN1: GN;PIN4:YE)with moulded cat	
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 win	res	Contacts to solder wir	es	Contacts to solder P	СВ	Contacts to solder PC	3
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	
8x0.25mm <sup>2</sup>		12x0.14mm <sup>2</sup>		3x0.34mm <sup>2</sup>		4x0.34mm <sup>2</sup>	ooly
	ellow;Grey;Pink;Blue;Red		x,ay;Ru;Vt;PK/GY;R0/Bu	Brown; Blue; Black		Brown; White; Blue; Bl	auk,
ø6mm (±0.3)		ø6.5mm (±0.3)		ø4.8mm (±0.3) 1m		ø5.2mm (±0.3)	
1m Reekesing		1m		1111		1m	
Packaging		1 nc / hag		1 nc / hac		1 nc / bag	
1 pc / bag	ntiono	1 pc / bag		1 pc / bag		1 pc / bag	
Other accessories of See accessories sec							
Notes:	uon						
NUCES:							



Moulded cable connectors - A-coded

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iechnical drawing				1	• • • (1 • • • (3 • • • • • • • • • • • •		
31,50 31,10							
Product description							
Connector type	Circular connector wit	h moulded cable	Circular connector w	ith moulded cable	Circular connector wit	h moulded cable	
Conforms to	IEC 61076-2-101		IEC 61076-2-101 M12 A-Coded		IEC 61076-2-101 M12 A-Coded		
Construction type Description	M12 A-Coded Circular connector M1 circuit (PIN3: GN;PIN4	2 series n.2 Led <b>NPN</b> :YE)with moulded cable	Circular connector M12 series n.2 Led <b>NPN</b> circuit (PIN3: GN;PIN4:YE)with moulded cable		Circular connector M12 series TOTALLY		
Part number	12FH3B1Z	12FE3B1Z	12FH4B1Z	12FE4B1Z	12FJ3F1Z	12FV3F1Z	
lousing type	Straight 180°	Angled 90°	Straight 180°	Angled 90°	Straight 180°	Angled 90°	
able gland	Moulded cable	1	Moulded cable		Moulded cable		
ontacts type	Female		Female		Female		
umber of contacts	3poles		4poles		3poles		
lousing colour	Transparent		Transparent		Black		
echnical data							
ype of termination	Contacts to solder PCE	3	Contacts to solder PCB		Contacts to crimp wires		
	Brass+Gold flash		Brass+Gold flash		Brass+Gold flash		
			Knurl round		Knurl round		
Coupling nut type						Brass+Nickel plated	
Coupling nut type M12 coupling nut material	Brass+Nickel plated		Brass+Nickel plated		Brass+Nickel plated		
Coupling nut type V12 coupling nut material V12 coupling nut torque	Brass+Nickel plated 0.4 N*m		Brass+Nickel plated 0.4 N*m		Brass+Nickel plated 0.4 N*m		
Coupling nut type M12 coupling nut material M12 coupling nut torque Rated voltage	Brass+Nickel plated 0.4 N*m 10-30V DC		Brass+Nickel plated 0.4 N*m 10-30V DC		Brass+Nickel plated 0.4 N*m 250V AC/DC		
Coupling nut type V12 coupling nut material V12 coupling nut torque Rated voltage Rated current	Brass + Nickel plated 0.4 N*m 10-30V DC 3A		Brass + Nickel plated 0.4 N*m 10-30V DC 3A		Brass + Nickel plated 0.4 N*m 250V AC/DC 4A		
Coupling nut type M12 coupling nut material M12 coupling nut torque Rated voltage Rated current D-ring material	Brass+Nickel plated 0.4 N*m 10-30V DC 3A NBR		Brass + Nickel plated 0.4 N*m 10-30V DC 3A NBR		Brass+Nickel plated 0.4 N*m 250V AC/DC 4A NBR		
Coupling nut type A12 coupling nut material A12 coupling nut torque Rated voltage Rated current O-ring material Cable type	Brass + Nickel plated           0.4 N*m           10-30V DC           3A           NBR           PVC/PVC CEI2022		Brass + Nickel plated 0.4 N*m 10-30V DC 3A NBR PVC/PVC CEI2022		Brass + Nickel plated 0.4 N*m 250V AC/DC 4A NBR PVC/PVC CEI2022 SH	IELDED	
Coupling nut type M12 coupling nut material M12 coupling nut torque Rated voltage Rated current O-ring material Cable type Cable jacket colour	Brass + Nickel plated 0.4 N*m 10-30V DC 3A NBR PVC/PVC CEI2022 Black		Brass + Nickel plated 0.4 N*m 10-30V DC 3A NBR PVC/PVC CEI2022 Black		Brass + Nickel plated 0.4 N*m 250V AC/DC 4A NBR PVC/PVC CEI2022 SH Black	IELDED	
Coupling nut type M12 coupling nut material M12 coupling nut torque Rated voltage Rated current O-ring material Cable type Cable jacket colour No.Conductors / Section	Brass + Nickel plated 0.4 N*m 10-30V DC 3A NBR PVC/PVC CEI2022 Black 3x0.34mm <sup>2</sup>		Brass + Nickel plated 0.4 N*m 10-30V DC 3A NBR PVC/PVC CEI2022 Black 4x0.34mm <sup>2</sup>		Brass + Nickel plated 0.4 N*m 250V AC/DC 4A NBR PVC/PVC CEI2022 SH Black 3x0.34mm <sup>2</sup>	IELDED	
Coupling nut type M12 coupling nut material M12 coupling nut torque Rated voltage Rated current O-ring material Cable type Cable jacket colour No.Conductors / Section Conductor colours	Brass + Nickel plated 0.4 N*m 10-30V DC 3A NBR PVC/PVC CEI2022 Black 3x0.34mm <sup>2</sup> Brown; Blue; Black		Brass + Nickel plated 0.4 N*m 10-30V DC 3A NBR PVC/PVC CEI2022 Black 4x0.34mm <sup>2</sup> Brown; White; Blue;		Brass + Nickel plated 0.4 N*m 250V AC/DC 4A NBR PVC/PVC CEI2022 SH Black 3x0.34mm <sup>2</sup> Brown; Blue; Black	IELDED	
Coupling nut type M12 coupling nut material M12 coupling nut torque Rated voltage Rated current O-ring material Cable type Cable jacket colour Vo.Conductors / Section Conductor colours Cable diameter	Brass + Nickel plated 0.4 N*m 10-30V DC 3A NBR PVC/PVC CEI2022 Black 3x0.34mm <sup>2</sup> Brown; Blue; Black Ø4.8mm (±0.3)		Brass + Nickel plated 0.4 N*m 10-30V DC 3A NBR PVC/PVC CEI2022 Black 4x0.34mm <sup>2</sup> Brown; White; Blue; ø5.2mm (±0.3)		Brass + Nickel plated 0.4 N*m 250V AC/DC 4A NBR PVC/PVC CEI2022 SH Black 3x0.34mm <sup>2</sup> Brown; Blue; Black ø5.2mm (±0.3)	IELDED	
Coupling nut type M12 coupling nut material M12 coupling nut torque Rated voltage Rated current D-ring material Cable type Cable jacket colour Vo.Conductors / Section Conductor colours Cable diameter Cable length	Brass + Nickel plated 0.4 N*m 10-30V DC 3A NBR PVC/PVC CEI2022 Black 3x0.34mm <sup>2</sup> Brown; Blue; Black		Brass + Nickel plated 0.4 N*m 10-30V DC 3A NBR PVC/PVC CEI2022 Black 4x0.34mm <sup>2</sup> Brown; White; Blue;		Brass + Nickel plated 0.4 N*m 250V AC/DC 4A NBR PVC/PVC CEI2022 SH Black 3x0.34mm <sup>2</sup> Brown; Blue; Black	IELDED	
Contacts material Coupling nut type M12 coupling nut material M12 coupling nut torque Rated voltage Rated current O-ring material Cable type Cable jacket colour No.Conductors / Section Conductor colours Cable diameter Cable length Packaging DV/Bao	Brass + Nickel plated 0.4 N*m 10-30V DC 3A NBR PVC/PVC CEI2022 Black 3x0.34mm <sup>2</sup> Brown; Blue; Black Ø4.8mm (±0.3) 1m		Brass + Nickel plated 0.4 N*m 10-30V DC 3A NBR PVC/PVC CEI2022 Black 4x0.34mm <sup>2</sup> Brown; White; Blue; ø5.2mm (±0.3) 1m		Brass + Nickel plated 0.4 N*m 250V AC/DC 4A NBR PVC/PVC CEI2022 SH Black 3x0.34mm <sup>2</sup> Brown; Blue; Black ø5.2mm (±0.3) 1m	IELDED	
Coupling nut type M12 coupling nut material M12 coupling nut torque Rated voltage Rated current D-ring material Cable type Cable jacket colour Vo.Conductors / Section Conductor colours Cable diameter Cable length	Brass + Nickel plated 0.4 N*m 10-30V DC 3A NBR PVC/PVC CEI2022 Black 3x0.34mm <sup>2</sup> Brown; Blue; Black Ø4.8mm (±0.3)		Brass + Nickel plated 0.4 N*m 10-30V DC 3A NBR PVC/PVC CEI2022 Black 4x0.34mm <sup>2</sup> Brown; White; Blue; ø5.2mm (±0.3)		Brass + Nickel plated 0.4 N*m 250V AC/DC 4A NBR PVC/PVC CEI2022 SH Black 3x0.34mm <sup>2</sup> Brown; Blue; Black ø5.2mm (±0.3)	IELDED	

Moulded cable connectors - A-coded



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	C1 C2 C3 C4		1 2 3 4 5 2 4 5	$ \bigcirc \circ & (1) \\ \circ & (2) \\ \circ$	8 2 3 8 <b>2</b> 3	
	3	5-4-2-2-3	1 <b>3</b>		-3	
Product description						
	onnector with moulded cable Circular connector with moulded cable		Circular connector w	vith moulded cable		
EC 61076-2-101		IEC 61076-2-101		IEC 61076-2-101		
A12 A-Coded		M12 A-Coded		M12 A-Coded		
Circular connector		Circular connector N SHIELDED with mou	Ilded cable	Circular connector M12 series with moulded cable		
I2FJ4F1Z	12FV4F1Z	12FJ5F1Z	12FV5F1Z	12FJ8J1Z	12FV8J1Z	
traight 180°	Angled 90°	Straight 180°	Angled 90°	Straight 180°	Angled 90°	
Noulded cable		Moulded cable		Moulded cable		
emale		Female		Female		
poles		5poles		8poles		
lack		Black		Black		
echnical data						
ontacts to crimp v	vires	Contacts to crimp w	rires	Contacts to solder wires		
rass+Gold flash		Brass+Gold flash		Brass+Gold flash		
nurl round		Knurl round	-	Knurl round		
Frass+Nickel plate	d	Brass+Nickel plated	1	Brass+Nickel plated		
.4 N*m		0.4 N*m		0.4 N*m		
50V AC/DC		60V AC/DC		30V AC/DC		
A		4A		2A		
IBR		NBR		NBR		
VC/PVC CEI2022	SHIELDED	PVC/PVC CEI2022 S	SHIELDED	PVC/PVC CEI2022 S	HIELED	
lack		Black		Black		
x0.34mm <sup>2</sup>	Dial	5x0.34mm <sup>2</sup>	Photo On	8x0.25mm <sup>2</sup>		
rown; White; Blue;	; ыаск	Brown; White; Blue;	ыаск; Grey		Yellow;Grey;Pink;Blue;Red	
5.5mm (±0.3)		ø6mm (±0.3)		ø6.5mm (±0.3)		
m		1m		1m		
Packaging		4		4 /1		
pc / bag		1 pc / bag		1 pc / bag		
Other accessories						
See accessories s	ection					
Notes: Connectors availabl	le with different feautures	:				

See the general features and codification scheme page See the cables list section



Moulded cable connectors - A-coded

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	(F)	Ser.	e l'		P	
Fechnical drawing	• • <b>—</b> 1		• • — • 1		• • • • • • •	
49,50	• • • • • • • •		0 o 2		0 o 2	2
	• • • • • 4		• • • • • • • • • • • • • • • • • • •			3 • 5
37,50 31,10 HTTP:::::::::::::::::::::::::::::::::::					5	
Product description						
Connector type	Circular connector with	n moulded cable	Circular connector	with moulded cable		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 M1 cable	2 series with moulded	Circular connector M12 series with moulded cable		Circular connector cable	M12 series with moulde
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	1
Contacts type	Male		Male		Male	
lumber of contacts	3poles		4poles		5poles	
lousing colour	Black		Black		Black	
echnical data						
ype of termination	Contacts to crimp wire	S	Contacts to crimp wires		Contacts to crimp wires	
ontacts material	Brass+Gold flash		Brass+Gold flash		Brass+Gold flash	
coupling nut type	Knurl round		Knurl round		Knurl round	
112 coupling nut material	Brass+Nickel plated		Brass+Nickel plated		Brass+Nickel plated	
A12 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	
D-ring material	-		-		-	
Cable type	PVC/PVC CEI2022		PVC/PVC CEI2022		PVC/PVC CEI2022	
Cable jacket colour	Black		Black		Black	
Io.Conductors / Section	3x0.34mm <sup>2</sup>		4x0.34mm <sup>2</sup>		5x0.34mm <sup>2</sup>	
	Brown; Blue; Black		Brown; White; Blue;	Black	Brown; White; Blue	e; Black; Grey
Conductor colours			ø5.2mm (±0.3)		ø5.5mm (±0.3)	
Conductor colours Cable diameter			1m		1m	
Conductor colours Cable diameter Cable length	1m		Im			
Conductor colours Cable diameter Cable length <b>Packaging</b>	1m					
Conductor colours Cable diameter Cable length			1 pc / bag		1 pc / bag	

Moulded cable connectors - A-coded



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6				e		e	
		• •       •       1         • •       •       2         • •       •       3         • •       •       5         • •       •       6         • •       •       6         • •       •       6         • •       •       8         • •       •       9         • •       •       11         • •       •       12	2 40 .	• • • • • • • • • • • • • • • • • • •	3-0-1		
Product descripti Circular connector EC 61076-2-101 /12 A-Coded	ion with moulded cable	IEC 61076-2-101	with moulded cable	IEC 61076-2-101	with moulded cable	IEC 61076-2-101	with moulded cable
Circular connector	M12 series with moulded		M12 series with moulded		M12 series TOTALLY		M12 series TOTALLY
cable		cable		SHIELDED with moulded cable		SHIELDED with moulded cable	
2MD8A1Z	12MA8A1Z	12MD12K1Z	12MA12K1Z	12MJ3F1Z	12MV3F1Z	12MJ4F1Z	12MV4F1Z
traight 180°	Angled 90°	Straight 180°	Angled 90°	Straight 180°	Angled 90°	Straight 180°	Angled 90°
loulded cable		Moulded cable		Moulded cable		Moulded cable	
lale		Male		Male		Male	
poles		12poles		3poles		4poles	
lack		Black		Black		Black	
echnical data				-			
	wires	Contacts to solder	wires	Contacts to crimp wires		Contacts to crimp wires	
ontacts to solder			Brass+Gold flash		Brass+Gold flash		
ontacts to solder rass+Gold flash				Kanada and and		Knurl round	
contacts to solder rass+Gold flash inurl round	ad	Knurl round	d	Knurl round	ad		od
contacts to solder rass + Gold flash inurl round rass + Nickel plate	ed	Knurl round Brass+Nickel plate	d	Brass+Nickel plate	ed	Brass+Nickel plat	ed
Contacts to solder Grass+Gold flash Cnurl round Grass+Nickel plate .4 N*m	ed	Knurl round Brass+Nickel plate 0.4 N*m	d	Brass+Nickel plate 0.4 N*m	ed	Brass+Nickel plat 0.4 N*m	ed
contacts to solder rass + Gold flash inurl round rass + Nickel plate .4 N*m OV AC/DC	ed	Knurl round Brass+Nickel plate 0.4 N*m 30V AC/DC	d	Brass+Nickel plate 0.4 N*m 250V AC/DC	ed	Brass + Nickel plat 0.4 N*m 250V AC/DC	ed
ontacts to solder rass + Gold flash nurl round rass + Nickel plate 4 N*m DV AC/DC	ed	Knurl round Brass + Nickel plate 0.4 N*m 30V AC/DC 1.5A	d	Brass + Nickel plate 0.4 N*m 250V AC/DC 4A	ed	Brass+Nickel plat 0.4 N*m 250V AC/DC 4A	ed
ontacts to solder rass + Gold flash nurl round rass + Nickel plate 4 N*m OV AC/DC A		Knurl round Brass + Nickel plate 0.4 N*m 30V AC/DC 1.5A -	id	Brass + Nickel plate 0.4 N*m 250V AC/DC 4A -		Brass + Nickel plat           0.4 N*m           250V AC/DC           4A           -	
ontacts to solder rass + Gold flash nurl round rass + Nickel plate 4 N*m OV AC/DC A VC/PVC CEI2022		Knurl round Brass + Nickel plate 0.4 N*m 30V AC/DC 1.5A - PVC/PVC CEI2022	d	Brass + Nickel plate 0.4 N*m 250V AC/DC 4A - PVC/PVC CEI2022		Brass + Nickel plat           0.4 N*m           250V AC/DC           4A           -           PVC/PVC CEI2022	
ontacts to solder rass + Gold flash nurl round rass + Nickel plate .4 N*m OV AC/DC A VC/PVC CEI2022 lack		Knurl round Brass + Nickel plate 0.4 N*m 30V AC/DC 1.5A - PVC/PVC CEI2022 Black	d	Brass + Nickel plate 0.4 N*m 250V AC/DC 4A - PVC/PVC CEI2022 Black		Brass+Nickel plat 0.4 N*m 250V AC/DC 4A - PVC/PVC CEI2022 Black	
ontacts to solder rass + Gold flash nurl round rass + Nickel plate .4 N*m OV AC/DC A VC/PVC CEI2022 lack x0.25mm <sup>2</sup>		Knurl round Brass + Nickel plate 0.4 N*m 30V AC/DC 1.5A - PVC/PVC CEI2022 Black 12x0.14mm <sup>2</sup>		Brass + Nickel plate 0.4 N*m 250V AC/DC 4A - PVC/PVC CEI2022 Black 3x0.34mm <sup>2</sup>	SHIELDED	Brass + Nickel plat           0.4 N*m           250V AC/DC           4A           -           PVC/PVC CEI2022           Black           4x0.34mm²	SHIELDED
ontacts to solder rass + Gold flash nurl round rass + Nickel plate .4 N*m OV AC/DC A VC/PVC CEI2022 lack x0.25mm <sup>2</sup> /hite;Brown;Greer		Knurl round Brass + Nickel plate 0.4 N*m 30V AC/DC 1.5A - PVC/PVC CEI2022 Black 12x0.14mm <sup>2</sup> bn;Bu;Wh;Gn;Pk;Ye		Brass + Nickel plate 0.4 N*m 250V AC/DC 4A - PVC/PVC CEI2022 Black 3x0.34mm <sup>2</sup> Brown; Blue; Black	SHIELDED	Brass + Nickel plat 0.4 N*m 250V AC/DC 4A - PVC/PVC CEI2022 Black 4x0.34mm <sup>2</sup> Brown; White; Blue	SHIELDED
contacts to solder irass + Gold flash inurl round irass + Nickel plate .4 N*m .0V AC/DC A VC/PVC CEI2022 ilack ix0.25mm <sup>2</sup> vhite;Brown;Greer i6mm (±0.3)		Knurl round Brass + Nickel plate 0.4 N*m 30V AC/DC 1.5A - PVC/PVC CEI2022 Black 12x0.14mm <sup>2</sup> 1 Bn;Bu;Wh;Gn;Pk;Ye ø6.5mm (±0.3)		Brass + Nickel plate 0.4 N*m 250V AC/DC 4A - PVC/PVC CEI2022 Black 3x0.34mm <sup>2</sup> Brown; Blue; Black ø5.2mm (±0.3)	SHIELDED	Brass + Nickel plat           0.4 N*m           250V AC/DC           4A           -           PVC/PVC CEI2022           Black           4x0.34mm²           Brown; White; Blue           ø5.5mm (±0.3)	SHIELDED
ontacts to solder rass + Gold flash nurl round rass + Nickel plate .4 N*m OV AC/DC A VC/PVC CEI2022 lack x0.25mm <sup>2</sup> /hite;Brown;Greer 6mm (±0.3) m		Knurl round Brass + Nickel plate 0.4 N*m 30V AC/DC 1.5A - PVC/PVC CEI2022 Black 12x0.14mm <sup>2</sup> bn;Bu;Wh;Gn;Pk;Ye		Brass + Nickel plate 0.4 N*m 250V AC/DC 4A - PVC/PVC CEI2022 Black 3x0.34mm <sup>2</sup> Brown; Blue; Black	SHIELDED	Brass + Nickel plat 0.4 N*m 250V AC/DC 4A - PVC/PVC CEI2022 Black 4x0.34mm <sup>2</sup> Brown; White; Blue	SHIELDED
contacts to solder irass + Gold flash inurl round irass + Nickel plate .4 N*m :00V AC/DC .4 VC/PVC CEI2022 VC/PVC CEI2022 Vlack ix0.25mm <sup>2</sup> Vhite;Brown;Greer i6mm (±0.3) m <b>'ackaging</b>		Knurl round Brass + Nickel plate 0.4 N*m 30V AC/DC 1.5A - PVC/PVC CEI2022 Black 12x0.14mm <sup>2</sup> Bn;Bu;Wh;Gn;Pk;Ye Ø6.5mm (±0.3) 1m		Brass + Nickel plate 0.4 N*m 250V AC/DC 4A - PVC/PVC CEI2022 Black 3x0.34mm <sup>2</sup> Brown; Blue; Black ø5.2mm (±0.3) 1m	SHIELDED	Brass + Nickel plat           0.4 N*m           250V AC/DC           4A           -           PVC/PVC CEI2022           Black           4x0.34mm²           Brown; White; Blue           ø5.5mm (±0.3)           1m	SHIELDED
ontacts to solder rass + Gold flash nurl round rass + Nickel plate .4 N*m OV AC/DC A VC/PVC CEI2022 lack x0.25mm² /hite;Brown;Greer 6mm (±0.3) m ackaging pc / bag	1;Yellow;Grey;Pink;Blue;Red	Knurl round Brass + Nickel plate 0.4 N*m 30V AC/DC 1.5A - PVC/PVC CEI2022 Black 12x0.14mm <sup>2</sup> 1 Bn;Bu;Wh;Gn;Pk;Ye ø6.5mm (±0.3)		Brass + Nickel plate 0.4 N*m 250V AC/DC 4A - PVC/PVC CEI2022 Black 3x0.34mm <sup>2</sup> Brown; Blue; Black ø5.2mm (±0.3)	SHIELDED	Brass + Nickel plat           0.4 N*m           250V AC/DC           4A           -           PVC/PVC CEI2022           Black           4x0.34mm²           Brown; White; Blue           ø5.5mm (±0.3)	SHIELDED
ontacts to solder rass + Gold flash nurl round rass + Nickel plate .4 N*m OV AC/DC A VC/PVC CEI2022 lack x0.25mm² /hite;Brown;Greer 6mm (±0.3) m ackaging	1;Yellow;Grey;Pink;Blue;Red <b>s options</b>	Knurl round Brass + Nickel plate 0.4 N*m 30V AC/DC 1.5A - PVC/PVC CEI2022 Black 12x0.14mm <sup>2</sup> Bn;Bu;Wh;Gn;Pk;Ye Ø6.5mm (±0.3) 1m		Brass + Nickel plate 0.4 N*m 250V AC/DC 4A - PVC/PVC CEI2022 Black 3x0.34mm <sup>2</sup> Brown; Blue; Black ø5.2mm (±0.3) 1m	SHIELDED	Brass + Nickel plat           0.4 N*m           250V AC/DC           4A           -           PVC/PVC CEI2022           Black           4x0.34mm²           Brown; White; Blue           ø5.5mm (±0.3)           1m	SHIELDED



Moulded cable connectors - A-coded

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echnical drawing			0 • 1		
Product description	5 4		4   6		
Connector type	Circular connector wi	th moulded cable	Circular connector v	vith moulded cable	
Sonforms to	IEC 61076-2-101		IEC 61076-2-101		
Construction type	M12 A-Coded		M12 A-Coded		
Description	Circular connector M SHIELDED with moule		Circular connector M12 series TOTALLY SHIELDED with moulded cable		
Part number	12MJ5F1Z	12MV5F1Z	12MJ8J1Z	12MV8J1Z	
lousing type	Straight 180°	Angled 90°	Straight 180°	Angled 90°	
able gland	Moulded cable		Moulded cable		
Contacts type	Male		Male		
lumber of contacts	5poles		8poles		
lousing colour	Black		Black		
echnical data					
ype of termination	Contacts to crimp wir	es	Contacts to solder v	vires	
contacts material	Brass+Gold flash		Brass+Gold flash		
Coupling nut type	Knurl round		Knurl round		
A12 coupling nut material	Brass+Nickel plated		Brass+Nickel plated		
A12 coupling nut torque	0.4 N*m		0.4 N*m		
Rated voltage	60V AC/DC		30V AC/DC		
Rated current	4A		2A		
D-ring material	-		-		
Cable type	PVC/PVC CEI2022 SH	IIELDED	PVC/PVC CEI2022 S	SHIELDED	
Cable jacket colour	Black		Black		
Vo.Conductors / Section	5x0.34mm <sup>2</sup>		8x0.25mm <sup>2</sup>	V(III. 0. D)	
Conductor colours	Brown; White; Blue; E	slack; Grey		Yellow;Grey;Pink;Blue;Red	
Cable diameter	ø6mm (±0.3)		ø6.5mm (±0.3)		
Cable length	1m		1m		
	1 no /hoc		1 no / ho-		
	1 pc / bag		1 pc / bag		
Qty/Bag					
Qty/Bag <b>Other accessories options</b>					
Packaging Qty/Bag Other accessories options See accessories section Notes:					

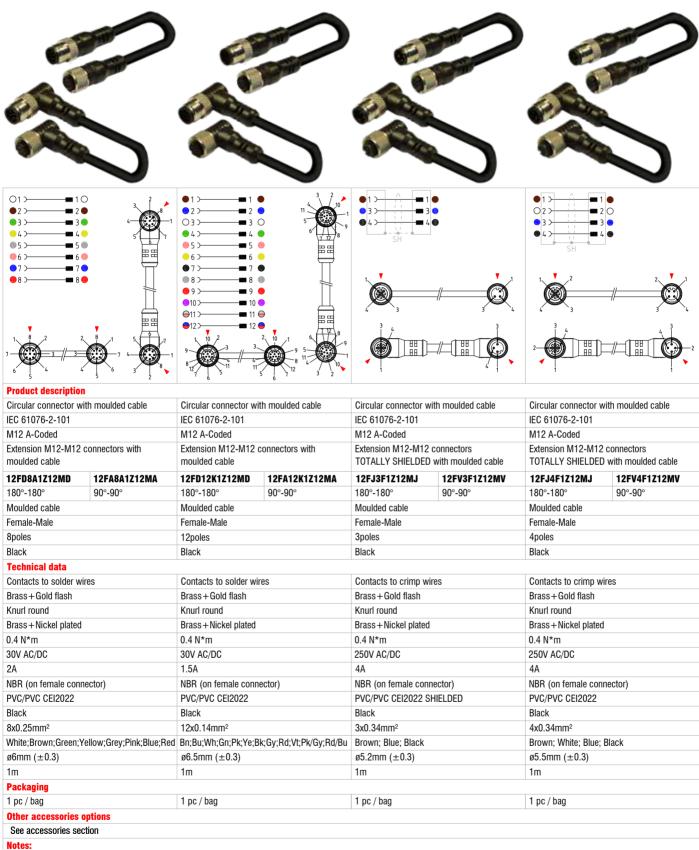
Moulded cable connectors - A-coded



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Product description						
Connector type	Circular connector v	vith moulded cable	Circular connector w	ith moulded cable	Circular connector w	vith 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 with	Extension M12-M12 connectors with		M12 A-Coded Extension M12-M12	connectors with
	moulded cable		moulded cable		moulded cable	
Part number	12FD3B1Z12MD	12FA3B1Z12MA	12FD4B1Z12MD			12FA5B1Z12MA
lousing type	180°-180°	90°-90°	180°-180°	90°-90°	12FD5B1Z12MD 180°-180°	90°-90°
Cable gland	Moulded cable	1	Moulded cable		Moulded cable	
Contacts type	Female-Male		Female-Male		Female-Male	
Number of contacts	3poles		4poles		5poles	
lousing colour	Black		Black		Black	
echnical data						
Type of termination	Contacts to crimp w	ires	Contacts to crimp wi	res	Contacts to crimp w	ires
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	1	Brass+Nickel plated		Brass+Nickel plated	
W12 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	
D-ring material	NBR (on female con	nector)	NBR (on female con	nector)	NBR (on female con	nector)
Cable type	PVC/PVC CEI2022		PVC/PVC CEI2022		PVC/PVC CEI2022	
Cable jacket colour	Black		Black		Black	
No.Conductors / Section	3x0.34mm <sup>2</sup>		4x0.34mm <sup>2</sup>		5x0.34mm <sup>2</sup>	
Conductor colours	Brown; Blue; Black		Brown; White; Blue;	Black	Brown; White; Blue;	Black; Grev
Cable diameter	ø4.8mm (±0.3)		ø5.2mm (±0.3)		ø5.5mm (±0.3)	, <i>j</i>
Cable length	1m		1m		1m	
Packaging						
	1 pc / bag		1 pc / bag		1 pc / bag	
לע/Bag						
Ity/Bag Ither accessories options	T pc / bag		T pc / bag			



Moulded cable connectors - A-coded



Connectors available with different feautures:

See the general features and codification scheme page See the cables list section

Moulded cable connectors - A-coded



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Draduat description			2	5 2	
Product description	Circular connector with	moulded apple	Circular connector w		
Connector type	Circular connector with moulded cable		IEC 61076-2-101		
Conforms to	IEC 61076-2-101				
Construction type	M12 A-Coded		M12 A-Coded		
Description	Extension M12-M12 co TOTALLY SHIELDED wi		Extension M12-M12 connectors TOTALLY SHIELDED with moulded cable		
Part number			12FJ8J1Z12MJ		
		12FV5F1Z12MV	12FJ8J1212MJ 180°-180°	12FV8J1Z12MV	
Housing type		90°-90°		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	3	Contacts to solder wi	res	
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		
D-ring material	NBR (on female connec	tor)	NBR (on female conr	iector)	
Cable type	PVC/PVC CEI2022		PVC/PVC CEI2022		
Cable jacket colour	Black		Black		
No.Conductors / Section	5x0.34mm <sup>2</sup>		8x0.25mm <sup>2</sup>		
Conductor colours	Brown; White; Blue; Bla	ck; Grey		ellow;Grey;Pink;Blue;Red	
Cable diameter	ø6mm (±0.3)	<u> </u>	ø6.5mm (±0.3)	, ,, ,,	
Cable lenght	1m		1m		
Packaging					1
Qty/Bag	1 pc / bag		1 pc / bag		
Other accessories options	1 po/ bug		1 po / bug		
See accessories section					
lateo					
<b>Votes:</b> Connectors available with different feautures:					



Moulded cable connectors - B-coded

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roduct description	1						
onnector type	Circular connector with	n moulded cable	Circular connector wit	h moulded cable	Circular connector w	ith moulded cable	
onforms to	IEC 61076-2-101		IEC 61076-2-101		IEC 61076-2-101		
Construction type	M12 B-Coded		M12 B-Coded	<u> </u>	M12 B-Coded		
Description	Circular connector M12 TOTALLY SHIELDED,w	ith 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			S B-12FV5T1Z12MV-K6-I	
lousing 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		
lumber of contacts	5poles		5poles		5poles Black		
lousing colour	Black		Black		Ыаск		
echnical data	Contosto to orimo wiro		Contacto to origon wire		Contacto to origan wi	r0.0	
ype of termination	Contacts to crimp wire	S	Contacts to crimp wires		Contacts to crimp wires		
iontacts material	Brass+Gold flash		Brass + Gold flash		Brass+Gold flash		
Coupling nut type /12 coupling nut material	Knurl round Brass+Nickel plated		Knurl round		Knurl round		
112 coupling nut torque	0.4 N*m		Brass+Nickel plated		Brass+Nickel plated		
lated voltage	60V AC/DC		0.4 N*m 60V AC/DC		0.4 N*m 60V AC/DC		
lated current	4A		4A		4A		
I-ring material	NBR		-		NBR (on female conr	nector)	
able type		SHIELDED HIGH FLEX		4 SHIELDED HIGH FLEX	`	,	
able jacket colour	Violet RAL4001		Violet RAL4001		Violet RAL4001		
		)	1x2xAWG24(0.25mm <sup>2</sup>	2)	1x2xAWG24(0.25mm	n²)	
			1x2xAWG24(0.25mm²) Red; Green		Red; Green		
lo.Conductors / Section	Red; Green						
lo.Conductors / Section conductor colours			ø8.2mm (±0.3)		ø8.2mm (±0.3)		
lo.Conductors / Section Conductor colours Cable diameter	Red; Green				ø8.2mm (±0.3) 1m		
lo.Conductors / Section Conductor colours Cable diameter Cable length	Red; Green ø8.2mm (±0.3)		ø8.2mm (±0.3)				
Valle Jakker Colour Vo.Conductors / Section Conductor colours Cable diameter Cable length Packaging My/Bag	Red; Green ø8.2mm (±0.3)		ø8.2mm (±0.3)				
lo.Conductors / Section conductor colours cable diameter cable length <b>ackaging</b>	Red; Green ø8.2mm (±0.3) 1m		ø8.2mm (±0.3) 1m		1m		

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



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Hechnical drawing       49.50			. ¢13,3 .	. #13,3	P69	P69
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Product description						
Connector type	Circular connector	with moulded cable	Circular connector pa	inel mount	Circular connector pa	nel mount
Conforms to	IEC 61076-2-101		IEC 61076-2-101		IEC 61076-2-101	
	M12 C-Coded		M12 C-Coded		M12 C-Coded	
Construction type Description		M12 series,C-coded,	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-PG
Housing type	Straight 180°	Angled 90°	Frontal panel side	Back panel side	Frontal panel side	Back panel side
Cable gland	Moulded cable		PG9 (fixing thread)	-	PG9 (fixing thread)	
Contacts type	Male		Female		Female	
Number of contacts	3poles		3poles		3poles	
Housing colour	Black		-		-	
Technical data	Black					
Type of termination	Contacts to crimp w	iroc	Contacts to solder wi	roc	Contacts to solder wir	00
Contacts material	Brass+Gold flash	1163	Brass+Gold flash		Brass+Gold flash	
	Knurl round					
Coupling nut type M12 coupling nut material	Brass+Nickel plate	4	Brass+Nickel plated		Brass+Nickel plated	
	· ·	1	Brass+Nickel plated (SW17)		Brass+Nickel plated (SW17)	
M12 coupling nut torque	0.4 N*m		0.4 N*m		0.4 N*m	
Rated voltage	250V AC/DC		250V AC / DC		250V AC / DC	
Rated current	4A		4A		4A	
O-ring material	-		NBR		NBR	
Cable type	PVC/PVC CEI2022		-		PVC	
Cable jacket colour	Black		-		-	
No.Conductors / Section	3x0.5mm <sup>2</sup>		-		3 x 0.5mm <sup>2</sup>	
Conductor colours	Brown; Blue; Yellow	/Green	-		Brown; Blue; Yellow/G	ireen
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 feautures						

See the cables list section



Moulded cable connectors - D-coded

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Product description					1	
Connector type	Circular connector wit	h moulded cable	Circular connector w	ith moulded cable	Circular connector w	vith 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 M1 TOTALLY SHIELDED,		Circular connector M12 series,D-coded, TOTALLY SHIELDED,with moulded cable			connectors,D-coded, ,with moulded cable
Part number	D-12FJ4401Z-K6-IS	D-12FV4401Z-K6-IS	D-12MJ4401Z-K6-I	S D-12MV4401Z-K6-IS	D-12MJ4401Z12FJ-K6-	IS D-12MV4401Z12FV-K6-
lousing 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	
lousing colour	Black		Black		Black	
echnical data						
Type of termination	Contacts to crimp wire	es	Contacts to crimp with	res	Contacts to crimp with	ires
Contacts material	Brass+Gold flash		Brass+Gold flash		Brass+Gold flash	
Coupling nut type	Knurl round		Knurl round		Knurl round	
112 coupling nut material	Brass+Nickel plated		Brass+Nickel plated		Brass+Nickel plated	
A12 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	
)-ring material	NBR		-		NBR (on female con	nector)
cable type	PUR CAT.5E UL21576	SHIELDED HIGH FLEX	PUR CAT.5E UL2157	'6 SHIELDED HIGH FLEX	PUR CAT.5E UL215	76 SHIELDED HIGH FLEX
Cable jacket colour	Green RAL6018		Green RAL6018		Green RAL6018	
lo.Conductors / Section	1x4xAWG22(0.34mm	,	1x4xAWG22(0.34mm	,	1x4xAWG22(0.34mr	,
Conductor colours	Yellow; White; Orange	; Blue	Yellow; White; Orang	e; Blue	Yellow; White; Orang	je; Blue
Cable diameter	ø6.7mm (±0.3)		ø6.7mm (±0.3)		ø6.7mm (±0.3)	
Cable length	1m		1m		1m	
Packaging						
Qty/Bag	1 pc / bag		1 pc / bag		1 pc / bag	
Other accessories options See accessories section						

### M12 CIRCULAR CONNECTORS Moulded cable connectors - K-coded

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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,	Circular connector M12 series,K-coded,	Extension M12-M12 connectors,K-code
	with moulded cable	with moulded cable	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
lechnical 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
V12 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
D-ring material	NBR	-	NBR (on female connector)
Cable type	PVC/PVC CEI2022	PVC/PVC CEI2022	PVC/PVC CEI2022
Cable jacket colour	Black	Black	Black
Io.Conductors / Section	5G1.5mm <sup>2</sup>	5G1.5mm <sup>2</sup>	5G1.5mm <sup>2</sup>
Conductor colours	Bk 1; Bk 2; Bk 3; Bk 4; Yellow/Green;	Bk 1; Bk 2; Bk 3; Bk 4; Yellow/Green;	Bk 1; Bk 2; Bk 3; Bk 4; Yellow/Green;
Cable diameter	ø10mm (±0.3)	ø10mm (±0.3)	ø10mm (±0.3)
Cable length	1m	1m	1m
ackaging			
Nty/Bag	1 pc / bag	1 pc / bag	1 pc / bag
Other accessories options			
See accessories section			



Moulded cable connectors - K-coded

	Contraction of the second	Contraction of the second	
echnical drawing			
			$\begin{array}{c} 2 & \hline \\ 2 & \hline \\ 3 & \hline \\ 4 & \hline \\ 4 & \hline \\ 4 & \hline \\ 5 & \hline \\ 5 & \hline \\ \\ \end{array}$
		1-4-4	
roduct description			
onnector type	Circular connector with moulded cable	Circular connector with moulded cable	Circular connector with moulded cable
onforms to	IEC 61076-2-111	IEC 61076-2-111	IEC 61076-2-111
onstruction type	M12 K-Coded	M12 K-Coded	M12 K-Coded
escription	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-codec TOTALLY SHIELDED with moulded cable
art number	K-12FJ5351Z-K6-IS	K-12MJ5351Z-K6-IS	K-12FJ5351Z12MJ
ousing type	Straight 180°	Straight 180°	180°-180°
able gland	Moulded cable	Moulded cable	Moulded cable
ontacts type	Female	Male	Female-Male
umber of contacts	4poles + P.E.	4poles + P.E.	4poles + P.E.
ousing colour	Black	Black	Black
echnical data	1		
ype of termination	Contacts to solder wires	Contacts to solder wires	Contacts to solder wires
ontacts material	Brass+Gold flash	Brass + Gold flash	Brass+Gold flash
oupling nut type	Knurl round	Knurl round	Knurl round
112 coupling nut material 112 coupling nut torque	Brass+Nickel plated 0.4 N*m	Brass+Nickel plated 0.4 N*m	Brass+Nickel plated 0.4 N*m
lated voltage	630V AC	630V AC	630V AC
lated current	12A	12A	12A
	NBR	-	NBR (on female connector)
)-ring material	_ ·····	PVC/PVC CEI2022 SHIELDED	PVC/PVC CEI2022 SHIELDED
•	PVC/PVC CEI2022 SHIFI DED		
able type	PVC/PVC CEI2022 SHIELDED Black		
able type able jacket colour	Black	Black	Black
able type able jacket colour o.Conductors / Section	Black 5G1.5mm <sup>2</sup>	Black 5G1.5mm <sup>2</sup>	Black 5G1.5mm <sup>2</sup>
able type able jacket colour lo.Conductors / Section onductor colours	Black	Black       5G1.5mm <sup>2</sup> Bk 1; Bk 2; Bk 3; Bk 4; Yellow/Green;	Black 5G1.5mm <sup>2</sup> Bk 1; Bk 2; Bk 3; Bk 4; Yellow/Green;
able type able jacket colour Io.Conductors / Section conductor colours able diameter	Black 5G1.5mm <sup>2</sup> Bk 1; Bk 2; Bk 3; Bk 4; Yellow/Green;	Black 5G1.5mm <sup>2</sup>	Black 5G1.5mm <sup>2</sup>
D-ring material cable type cable jacket colour Io.Conductors / Section conductor colours cable diameter cable length Cackaging	Black 5G1.5mm <sup>2</sup> Bk 1; Bk 2; Bk 3; Bk 4; Yellow/Green; ø10.4mm (±0.3)	Black           5G1.5mm²           Bk 1; Bk 2; Bk 3; Bk 4; Yellow/Green;           ø10.4mm (±0.3)	Black           5G1.5mm²           Bk 1; Bk 2; Bk 3; Bk 4; Yellow/Green;           ø10.4mm (±0.3)
able type able jacket colour Io.Conductors / Section conductor colours able diameter able length	Black 5G1.5mm <sup>2</sup> Bk 1; Bk 2; Bk 3; Bk 4; Yellow/Green; ø10.4mm (±0.3)	Black           5G1.5mm²           Bk 1; Bk 2; Bk 3; Bk 4; Yellow/Green;           ø10.4mm (±0.3)	Black           5G1.5mm²           Bk 1; Bk 2; Bk 3; Bk 4; Yellow/Green;           ø10.4mm (±0.3)

## M12 CIRCULAR CONNECTORS Moulded cable connectors - S-coded

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echnical drawing	• •	● o∎ 1	●1>
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	2		Z
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roduct description	Circular connector with moulded coble	Circular connector with moulded cable	Circular connector with moulded cable
onnector type	Circular connector with moulded cable	Circular connector with moulded cable	Circular connector with moulded cable
onforms to	IEC 61076-2-111 M12 S-Coded	IEC 61076-2-111	IEC 61076-2-111 M12 S-Coded
onstruction type	Circular connector M12 series,S-coded,	M12 S-Coded Circular connector M12 series,S-coded,	Extension M12-M12 connectors,S-code
escription	with moulded cable	with moulded cable	with moulded cable
art number	S-12FD4461Z	S-12MD4461Z	S-12FD4461Z12MD
lousing type	Straight 180°	Straight 180°	180°-180°
able gland	Moulded cable	Moulded cable	Moulded cable
ontacts type	Female	Male	Female-Male
umber of contacts	3poles + P.E.	3poles + P.E.	3poles + P.E.
ousing colour	Black	Black	Black
echnical data			
ype of termination	Contacts to crimp wires	Contacts to crimp wires	Contacts to crimp wires
ontacts material	Brass+Gold flash	Brass+Gold flash	Brass+Gold flash
oupling nut type	Knurl round	Knurl round	Knurl round
12 coupling nut material	Brass+Nickel plated	Brass+Nickel plated	Brass+Nickel plated
12 coupling nut torque	0.4 N*m	0.4 N*m	0.4 N*m
ated voltage	630V AC	630V AC	630V AC
ated current	12A	12A	12A
-ring material	NBR	-	NBR (on female connector)
able type	PVC/PVC CEI2022	PVC/PVC CEI2022	PVC/PVC CEI2022
able jacket colour	Black	Black	Black
o.Conductors / Section	4G1.5mm <sup>2</sup>	4G1.5mm <sup>2</sup>	4G1.5mm <sup>2</sup>
onductor 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
able diameter	ø10mm (±0.3)	ø10mm (±0.3)	ø10mm (±0.3)
able length	1m	1m	1m
ackaging			
ty/Bag	1 pc / bag	1 pc / bag	1 pc / bag
ther accessories options			
ee accessories section			

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



Moulded cable connectors - S-coded

TOTALLY SHIELDED with moulded cableTOTALLY SHIELDED with moulded cableTOTALLY SHIELDED with moulded cablePart number\$-12FJ43512\$-12FJ43512\$-12FJ4351212MJHousing typeStraight 180°Straight 180°180°-180°Cable glandMoulded cableMoulded cableMoulded cableContacts typeFemaleMaleFemale-MaleNumber of contactsBack + P.E.3poles + P.E.3poles + P.E.Housing colourBlackBlackBlackTerhnical dataTotacts to crimp wiresContacts to crimp wiresContacts to crimp wiresContacts materialContacts to crimp wiresContacts to crimp wiresContacts to crimp wiresContacts materialStras + Glod flashBrass + Glod flashBrass + Glod flashM12 coupling nut materialBrass + Nickel platedBrass + Nickel platedBrass + Nickel platedM12 coupling nut torque0.4 N*m0.4 N*m0.4 N*mRated voltage630V AC630V AC630V ACRated voltageNBR-NBR (on female connector)Cable typePVC/PVC CEI2022 SHIELDEDPVC/PVC CEI2022 SHIELDEDPVC/PVC CEI2022 SHIELDEDCable typeBlackBlackBlack		C. Standard		
Image: Contract description       Image: Contract description         Connector type       Circular connector with moulded cable         Connector type       Circular connector W12 series, S-coded,         Description       Circular connector M12 series, S-coded,         TOTALLY SHIELDED with moulded cable       Circular connector M12 series, S-coded,         Contacts to perspect the straight 180°       Straight 180°         Cable gland       Moulded cable         Moulded cable       Moulded cable         Type of termination       Contacts to crimp wires         Contacts to crimp wires       Contacts to crimp wires         Contacts to crimp wires       Contacts to crimp wires         Contacts material       Brass + Gold flash				3 <b>B</b>
Connector type         Circular connector with moulded cable         M12 S-Coded         Extension M12-M12 connectors, S-coded, TOTALLY SHIELDED with moulded cable         M12 S-Coded         Extension M12-M12 connectors, S-coded, TOTALLY SHIELDED with moulded cable         S-12FJ43512         S-12FJ43512		3-	1	
Donforms toIEC 61076-2-111IEC 61076-2-111IEC 61076-2-111Donstruction typeM12 S-CodedM12 S-CodedM12 S-CodedDescriptionCircular connector M12 series, S-coded, TOTALLY SHIELDED with moulded cableCircular connector M12 series, S-coded, TOTALLY SHIELDED with moulded cableCircular connector M12 series, S-coded, TOTALLY SHIELDED with moulded cableTOTALLY SHIELDED with moulded cablePart numberS-12FJ4351ZS-12FJ4351ZS-12FJ4351Z12MJGale glandMoulded cableMoulded cableMoulded cableDontacts typeFemaleMaleFemale-MaleWumber of contactsByoles + P.E.Byoles + P.E.BackBlackBlackBlackBlackBlackContacts to crimp wiresContacts to crimp wiresContacts to crimp wiresDotates materialBrass + Gold flashBrass + Gold flashBrass + Gold flashDougling nut typeKnurl roundKnurl roundKnurl roundKnurl roundM12 coupling nut torque0.4 N*m0.4 N*m0.4 N*m0.4 N*mDoring materialNBR-NBR (on female connector)Draing materialNBR-NBR (on female connector)Draing materialNBR-NBR (on female connector)Doing to represent to colourBlackBlackBlackDela bia pack to colourBlackBlackBlackDoing materialNBR-NBR (on female connector)Dring materialNBR-NBR (on female connector)Dring	•	Circular connector with moulded cable	Circular connector with moulded cable	Circular connector with moulded cable
bonstruction typeM12 S-CodedM12 S-CodedM12 S-CodedM12 S-CodedDescriptionCircular connector M12 series, S-coded, TOTALLY SHIELDED with moulded cableCircular connector M12 series, S-coded, TOTALLY SHIELDED with moulded cableCircular connector M12 series, S-coded, TOTALLY SHIELDED with moulded cableExtension M12-M12 connector, S-co TOTALLY SHIELDED with moulded cablelousing typeStraight 180°Straight 180°Straight 180°able glandMoulded cableMoulded cableMoulded cablebontacts typeFernaleMaleFernale-Malelousing contacts3poles + P.E.3poles + P.E.lousing colourBlackBlackBlacketernical dataContacts to crimp wiresContacts to crimp wirescontacts materialBrass + Gold flashBrass + Gold flashbouping nut typeKnurl roundKnurl roundKnurl round112 coupling nut typeG30V AC630V AC630V ACated voltage630V AC630V AC630V ACated voltageBlackBlackBlackbeing aterialNBR-NBR (on fernale connector)conductor / Section461-5mm²461-5mm²461-5mm²conductor / SectionBlack 3; Palcok 3; Pellow; Green;Black 3; Pellow; Green;atel programBlack 3; Palcok 3; Pellow; Green;Black 3; Pellow; Green;ate state stateNBR-NBR (on fernale connector)colouring typePVC/PVC CEI2022 SHIELDEDPVC/PVC CEI2022 SHIELDEDbeile jacket colour <td></td> <td></td> <td></td> <td></td>				
Circular connector M12 series, S-coded, TOTALLY SHIELDED with moulded cableCircular connector M12 series, S-coded, TOTALLY SHIELDED with moulded cableExtension M12-M12 connectors, S-co TOTALLY SHIELDED with moulded cableart numberS-12FJ43S1ZS-12FJ43S1ZS-12FJ43S1ZJousing typeStraight 180°Straight 180°180°-180°able glandMoulded cableMoulded cableMoulded cableiontacts typeFemaleMaleFemale-Maleiontacts typeFemaleMaleBlackechnical dataBlackBlackBlackype of terminationContacts to crimp wiresContacts to crimp wiresiontacts materialBrass + Gold flashBrass + Gold flash112 coupling nut typeKnuf roundKnuf round112 coupling nut materialBrass + Nickel platedBrass + Nickel plated112 coupling nut materialBrass + Nickel platedBrass + Nickel plated112 coupling nut materialBrass + Nickel platedBrass + Nickel plated112 coupling nut materialBrass + Nickel platedBrass + Nickel plated112 coupling nut materialBrass + Nickel platedBrass + Nickel plated112 coupling nut materialBrass + Nickel platedBrass + Nickel plated112 coupling nut materialBrass + Nickel platedBrass + Nickel plated112 coupling nut materialBrass + Nickel platedBrass + Nickel plated112 coupling nut materialBrass + Nickel platedBrass + Nickel plated112 coupling nut materialNBR-NBR (on female				
Isouring typeStraight 180°Straight 180°Straight 180°180°-180°Sable glandMoulded cableMoulded cableMoulded cableMoulded cableSontacts typeFemaleMaleFemale-MaleJumber of contacts3poles + P.E.3poles + P.E.3poles + P.E.Isouring colourBlackBlackBlackSechnical dataEremate-MaleBlackBlackSouring colourContacts to crimp wiresContacts to crimp wiresSouring nut typeKnurl roundKnurl roundKnurl roundM12 coupling nut materialBrass + Hockel platedBrass + Nickel platedM12 coupling nut torque0.4 N*m0.4 N*m0.4 N*mAltade current12A12A12AD-ing materialNBR-NBR (on female connector)Sable typePVC/PVC CEI2022 SHIELDEDPVC/PVC CEI2022 SHIELDEDPVC/PVC CEI2022 SHIELDEDD-ing materialBlackBlackBlackBlackSable typePVC/PVC CEI2022 SHIELDEDPVC/PVC CEI2022 SHIELDEDPVC/PVC CEI2022 SHIELDEDSable typePVC/PVC CEI2022 SHIELDEDPVC/PVC CEI2022 SHIELDEDBlack 1; Black 3; Yellow/Greer; sable iacket colourBlack 2; Black 3; Yellow/Greer; sable iacket 3; Slack 3; Yellow/Greer; sable diameterslack 1; Black 2; Black 3; Yellow/Greer; sable diameterslack 1; Black 2; Black 3; Yellow/Greer; sable iaghtstrain mmThere are are are are are are are are are		Circular connector M12 series, S-coded,	Circular connector M12 series,S-coded,	Extension M12-M12 connectors,S-coded, TOTALLY SHIELDED with moulded cable
Cable glandMoulded cableMoulded cableMoulded cableContacts typeFemaleMaleFemale-MaleNumber of contacts3poles + P.E.3poles + P.E.3poles + P.E.Housing colourBlackBlackBlackFechnical dataEchnical dataContacts to crimp wiresContacts to crimp wiresContacts tableBrass + Gold flashBrass + Gold flashBrass + Gold flashCoupling nut typeKnurl roundKnurl roundKnurl roundM12 coupling nut materialBrass + Nickel platedBrass + Nickel platedBraded voltage630V AC630V AC630V ACRated voltage630V AC630V AC630V ACStade current12A12A12AOring materialNBR-NBR (on female connector)Cable jacket colourBlackBlackBlackSolde typePVC/PVC CEI2022 SHIELDEDPVC/PVC CEI2022 SHIELDEDPVC/PVC CEI2022 SHIELDEDConductors / Section4G1.5mm²4G1.5mm²4G1.5mm²Conductor coloursBlack 1; Black 2; Black 3; Yellow/Green;Black 1; Black 2; Black 3; Yellow/Green;Cable diameterø10mm (±0.3)ø10mm (±0.3)ø10mm (±0.3)Cable diameterØ10mm (±0.3)ø10mm (±0.3)ø10mm (±0.3)PackagingI pc / bag1 pc / bag1 pc / bag	Part number	S-12FJ4351Z	S-12MJ4351Z	S-12FJ4351Z12MJ
FemaleMaleFemale-Malehumber of contacts3poles + P.E.3poles + P.E.3poles + P.E.humber of contactsBlackBlackBlackblackBlackBlackBlacketentical data'ype of terminationContacts to crimp wiresContacts to crimp wiresContacts to crimp wiresScontacts materialBrass + Gold flashBrass + Gold flashBrass + Gold flashBrass + Nickel platedKnurl roundKnurl roundKnurl round112 coupling nut materialBrass + Nickel platedBrass + Nickel platedBrass + Nickel plated112 coupling nut torque0.4 N*m0.4 N*m0.4 N*m630V ACAtaed voltage630V AC630V AC630V AC630V ACAtaed current12A12A12A12A>-ring materialNBR-NBR (on female connector)>-biable typePVC/PVC CEI2022 SHIELDEDPVC/PVC CEI2022 SHIELDEDPVC/PVC CEI2022 SHIELDEDScabel acket colourBlackBlackBlackIo. Conductors / Section4G1.5mm²4G1.5mm²4G1.5mm²Scabel anetera10mm (±0.3)a10mm (±0.3)a10mm (±0.3)a10mm (±0.3)Scabel anetera10mm (±0.3)10mm (±0.3)10mm (±0.3)10mm (±0.3)Scabel anetera10mm (±0.3)10mm (±0.3)10mm (±0.3)10mm (±0.3)Scabel aneter10pc / bag1pc / bag1pc / bag1pc / bag	lousing type	Straight 180°	Straight 180°	180°-180°
Any mumber of contacts3poles + P.E.3poles + P.E.3poles + P.E.lousing colourBlackBlackBlackBlackechnical dataype of terminationContacts to crimp wiresContacts to crimp wiresContacts to crimp wiresoupling nut typeBrass + Gold flashBrass + Gold flashBrass + Gold flashoupling nut typeKnurl roundKnurl roundKnurl round112 coupling nut materialBrass + Nickel platedBrass + Nickel plated122 coupling nut torque0.4 N*m0.4 N*m0.4 N*m122 coupling nut torque0.4 N*m0.4 N*m0.4 N*m122 coupling nut torque0.4 N*m630V AC630V ACated voltage630V AC630V AC630V ACated voltage630V AC630V AC630V ACated current12A12A12A-ring materialNBR-NBR (on female connector)able typePVC/PVC CEI2022 SHIELDEDPVC/PVC CEI2022 SHIELDEDPVC/PVC CEI2022 SHIELDEDable jacket colourBlackBlackBlackBlackonductors / Section4G1.5mm²4G1.5mm²4G1.5mm²able diameterø10mm (±0.3)ø10mm (±0.3)ø10mm (±0.3)able length1m1m1mackagingtyc / bag1 pc / bag1 pc / bag	able gland	Moulded cable	Moulded cable	Moulded cable
ousing colourBlackBlackBlackechnical dataype of terminationContacts to crimp wiresContacts to crimp wiresContacts to crimp wiresontacts materialBrass + Gold flashBrass + Gold flashBrass + Gold flashoupling nut typeKnurl roundKnurl roundKnurl round112 coupling nut materialBrass + Nickel platedBrass + Nickel platedBrass + Nickel plated112 coupling nut torque0.4 N*m0.4 N*m0.4 N*m12 coupling nut torque630V AC630V AC630V ACated voltage630V AC630V AC630V ACated voltage630V AC630V AC630V ACated current12A12A12A-ring materialNBR-NBR (on female connector)able typePVC/PVC CEI2022 SHIELDEDPVC/PVC CEI2022 SHIELDEDPVC/PVC CEI2022 SHIELDEDable jacket colourBlackBlackBlackBlackonductor coloursBlack 1; Black 2; Black 3; Yellow/Green;Black 1; Black 2; Black 3; Yellow/Green;Black 1; Black 2; Black 3; Yellow/Green;able length1m1m1m1mackaging1 pc / bag1 pc / bag1 pc / bag1 pc / bag	ontacts type	Female	Male	Female-Male
cehnical dataype of terminationContacts to crimp wiresContacts to crimp wiresContacts to crimp wiresontacts materialBrass + Gold flashBrass + Gold flashBrass + Gold flashoupling nut typeKnurl roundKnurl roundKnurl round112 coupling nut materialBrass + Nickel platedBrass + Nickel platedBrass + Nickel plated112 coupling nut torque0.4 N*m0.4 N*m0.4 N*m0.4 N*mated voltage630V AC630V AC630V AC630V ACated current12A12A12A12A-ring materialNBR-NBR (on female connector)able typePVC/PVC CEI2022 SHIELDEDPVC/PVC CEI2022 SHIELDEDPVC/PVC CEI2022 SHIELDEDable jacket colourBlackBlackBlackBlackonductor coloursBlack 1; Black 2; Black 3; Yellow/Green;Black 1; Black 2; Black 3; Yellow/Green;Black 1; Black 2; Black 3; Yellow/Green;able length1m1m1m1mackagingty/Bag1 pc / bag1 pc / bag1 pc / bag1 pc / bag	umber of contacts	3poles + P.E.	3poles + P.E.	3poles + P.E.
ype of terminationContacts to crimp wiresContacts to crimp wiresContacts to crimp wiresontacts materialBrass + Gold flashBrass + Gold flashBrass + Gold flashBrass + Gold flashoupling nut typeKnurl roundKnurl roundKnurl roundKnurl round112 coupling nut materialBrass + Nickel platedBrass + Nickel platedBrass + Nickel platedBrass + Nickel plated112 coupling nut torque0.4 N*m0.4 N*m0.4 N*m0.4 N*mated voltage630V AC630V AC630V AC630V ACated current12A12A12A12Aing materialNBR-NBR (on female connector)able typePVC/PVC CEI2022 SHIELDEDPVC/PVC CEI2022 SHIELDEDPVC/PVC CEI2022 SHIELDEDable jacket colourBlackBlackBlackBlackonductor coloursBlack 1; Black 2; Black 3; Yellow/Green;Black 1; Black 2; Black 3; Yellow/Green;Black 1; Black 2; Black 3; Yellow/Green;able length1m1m1m1mackaging1 pc / bag1 pc / bag1 pc / bag	lousing colour	Black	Black	Black
notacts materialBrass + Gold flashBrass + Gold flashBrass + Gold flashoupling nut typeKnurl roundKnurl roundKnurl round12 coupling nut materialBrass + Nickel platedBrass + Nickel platedBrass + Nickel plated12 coupling nut torque0.4 N*m0.4 N*m0.4 N*mated voltage630V AC630V AC630V ACated voltage630V AC630V AC630V ACated current12A12A12A-ring materialNBR-NBR (on female connector)able typePVC/PVC CEI2022 SHIELDEDPVC/PVC CEI2022 SHIELDEDPVC/PVC CEI2022 SHIELDEDable jacket colourBlackBlackBlackBlackonductor coloursBlack 1; Black 2; Black 3; Yellow/Green;Black 1; Black 2; Black 3; Yellow/Green;Black 1; Black 2; Black 3; Yellow/Green;able diameterø10mm (±0.3)ø10mm (±0.3)ø10mm (±0.3)ø10mm (±0.3)able length1m1m1mackagingty/Bag1 pc / bag1 pc / bag1 pc / bag	echnical data			
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12 coupling nut materialBrass + Nickel platedBrass + Nickel platedBrass + Nickel plated12 coupling nut torque0.4 N*m0.4 N*m0.4 N*m12 coupling nut torque630V AC630V AC630V ACated voltage630V AC630V AC630V ACated current12A12A12A-ring materialNBR-NBR (on female connector)able typePVC/PVC CEI2022 SHIELDEDPVC/PVC CEI2022 SHIELDEDPVC/PVC CEI2022 SHIELDEDable jacket colourBlackBlackBlacko.Conductors / Section4G1.5mm²4G1.5mm²4G1.5mm²onductor coloursBlack 1; Black 2; Black 3; Yellow/Green;Black 1; Black 2; Black 3; Yellow/Green;Black 1; Black 2; Black 3; Yellow/Green;able length1m1m1m1mackaging1 pc / bag1 pc / bag1 pc / bag				
12 coupling nut torque0.4 N*m0.4 N*m0.4 N*mated voltage630V AC630V AC630V ACated voltage12A12A12A-ring materialNBR-NBR (on female connector)able typePVC/PVC CEI2022 SHIELDEDPVC/PVC CEI2022 SHIELDEDPVC/PVC CEI2022 SHIELDEDable jacket colourBlackBlackBlackBlacko.Conductors / Section4G1.5mm²4G1.5mm²4G1.5mm²able diameterø10mm (±0.3)ø10mm (±0.3)ø10mm (±0.3)ø10mm (±0.3)able length1m1m1m1mackaging1 pc / bag1 pc / bag1 pc / bag1 pc / bag				
ated voltage630V AC630V AC630V ACated current12A12A12A-ring materialNBR-NBR (on female connector)able typePVC/PVC CEI2022 SHIELDEDPVC/PVC CEI2022 SHIELDEDPVC/PVC CEI2022 SHIELDEDable jacket colourBlackBlackBlackBlacko.Conductors / Section4G1.5mm²4G1.5mm²4G1.5mm²onductor coloursBlack 1; Black 2; Black 3; Yellow/Green;Black 1; Black 2; Black 3; Yellow/Green;Black 1; Black 2; Black 3; Yellow/Green;able diameterø10mm (±0.3)ø10mm (±0.3)ø10mm (±0.3)able length1m1m1mackagingtpc / bag1 pc / bag1 pc / bag	1 0		•	
ated current12A12A12A-ring materialNBR-NBR (on female connector)able typePVC/PVC CEI2022 SHIELDEDPVC/PVC CEI2022 SHIELDEDPVC/PVC CEI2022 SHIELDEDable jacket colourBlackBlackBlacko.Conductors / Section4G1.5mm²4G1.5mm²4G1.5mm²onductor coloursBlack 1; Black 2; Black 3; Yellow/Green;Black 1; Black 2; Black 3; Yellow/Green;Black 1; Black 2; Black 3; Yellow/Green;able diameterØ10mm (±0.3)Ø10mm (±0.3)Ø10mm (±0.3)able length1m1m1mackagingtype Agg1 pc / bag1 pc / bag				
-ring materialNBR-NBR (on female connector)able typePVC/PVC CEI2022 SHIELDEDPVC/PVC CEI2022 SHIELDEDPVC/PVC CEI2022 SHIELDEDable jacket colourBlackBlackBlacko.Conductors / Section4G1.5mm²4G1.5mm²4G1.5mm²onductor coloursBlack 1; Black 2; Black 3; Yellow/Green;Black 1; Black 2; Black 3; Yellow/Green;Black 1; Black 2; Black 3; Yellow/Green;able diameterØ10mm (±0.3)Ø10mm (±0.3)Ø10mm (±0.3)able length1m1m1mackagingty/Bag1 pc / bag1 pc / bag1 pc / bag	•			
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o. Conductors / Section         4G1.5mm <sup>2</sup> 4G1.5mm <sup>2</sup> 4G1.5mm <sup>2</sup> onductor 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;           able diameter         Ø10mm (±0.3)         Ø10mm (±0.3)         Ø10mm (±0.3)           able length         1m         1m         1m           ackaging          1 pc / bag         1 pc / bag         1 pc / bag				
onductor coloursBlack 1; Black 2; Black 3; Yellow/Green;Black 1; Black 2; Black 3; Yellow/Green;Black 1; Black 2; Black 3; Yellow/Green;able diameterø10mm (±0.3)ø10mm (±0.3)ø10mm (±0.3)able length1m1m1mackagingty/Bag1 pc / bag1 pc / bag				
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able length 1m 1m 1m 1m ackaging ty/Bag 1 pc / bag 1 pc / bag 1 pc / bag				
Packaging       htty/Bag       1 pc / bag       1 pc / bag		, ,	. ,	, ,
tty/Bag 1 pc / bag 1 pc / bag 1 pc / bag		1	1	
		1 pc / bag	1 pc / bag	1 pc / bag
ee accessories section	ther accessories options			

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

Moulded cable connectors - X-coded



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echnical drawing			
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	7-2-2		
	8 1		
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,	Extension M12-M12 connectors,X-coded,	
	TOTALLY SHIELDED with moulded cable	TOTALLY SHIELDED with moulded cable	
Part number	X-12MJ8711Z-K6-IS	X-12MJ871Z12MJ-K6-IS	
lousing type	Straight 180°	180°-180°	
Cable gland	Moulded cable	Moulded cable	
Contacts type	Male	Male-Male	
Number of contacts	8poles	8poles	
lousing colour	Black	Black	
Fechnical 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	
/12 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	
)-ring material	-	-	
Cable type	PUR/TPO ULStyle20236 high flex SHIELDED	PUR/TPO ULStyle20236 high flex SHIELDED	
Cable jacket colour	Green RAL6016	Green RAL6016	
Io.Conductors / Section	4x2xAWG26(0.14mm <sup>2</sup> )	4x2xAWG26(0.14mm <sup>2</sup> )	
Conductor colours	Wh/Or;Or;Wh/Gn;Gn;Wh/Bn;Bn;Wh/Bu;Bu	Wh/Or;Or;Wh/Gn;Gn;Wh/Bn;Bn;Wh/Bu;Bu	
Cable diameter	ø7.2mm (±0.3)	ø7.2mm (±0.3)	
cable length	1m	1m	
Packaging			
Qty/Bag	1 pc / bag	1 pc / bag	
Other accessories options			
ee accessories section			
lotes:			
Connectors available with different feautures			

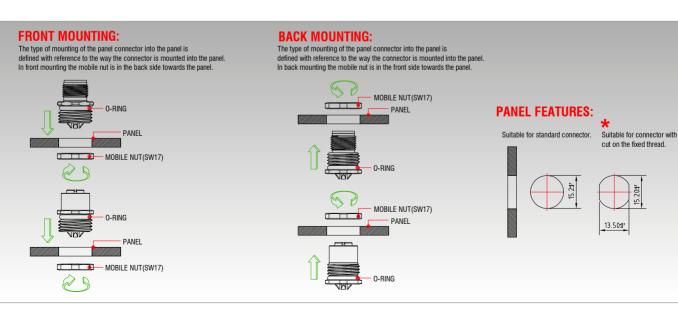


Panel mount - General features and codification scheme

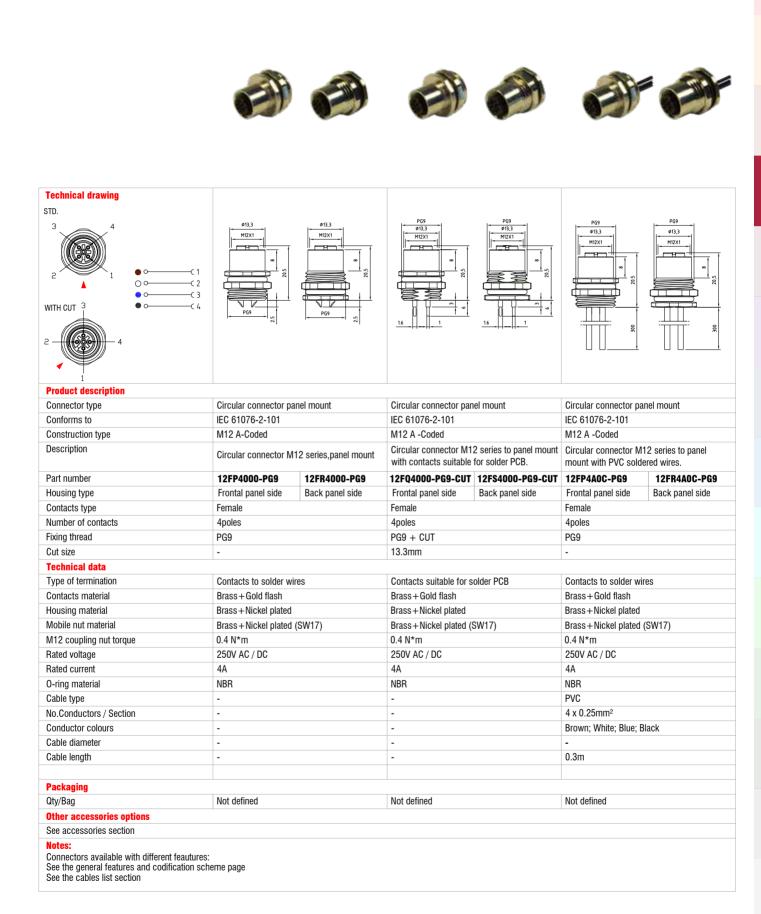
#### • GENERAL FEATURES PANEL MOUNT CONNECTORS:

Conductor cross section : Type of terminations : Housing material : Internal core material : **Operating temperature :** 0.14(26AWG)...0.50mm<sup>2</sup>(20AWG). Solder wires. Brass+Nickel plated PA66. -25°C +90°C Solder PCB. PA66 (upon request) Stainless Steel AISI304 Flammability resistance : Fixing system : Contact material and treatment : UL94-V2 - Standard. M12 coupling nut. (upon request). Stainless Steel AISI316 Brass + Gold flash Max. screw torque IEC60947-1 Protection class : (upon request). IP 67 (assembled). M12 coupling nut torque 0.4N\*m ## 12 F Ρ 3 А 0B PG9 ## ---CODING NO DIGIT : M12 A-CODING. B : M12 B-CODING. C · M12 C-CODING D : M12 D-CODING K : M12 K-CODING S : M12 S-CODING SERIES 12 : M12 CIRCULAR CONNECTOR. GENDER F : FEMALE. M : MALE. CONNECTOR TYPE P : FRONTAL MOUNTING. PP : FRONTAL MOUNTING PLASTIC CONNECTOR(MALE CONNECTORS) Q: FRONTAL MOUNTING WITH PCB CONTACTS. R : BACK MOUNTING.S: BACK MOUNTING WITH PCB CONTACTS. X: BACK MOUNTING WITH SCREW CONTACTS. NUMBERS OF POLES 3: 3POLES. 4: 4POLES. 5: 5POLES. 8: 8POLES. 12: 12POLES. CABLE TYPE 0 : WITHOUT WIRES. A : PVC WIRES 0.25mm<sup>2</sup>. B : PVC WIRES 0.34mm<sup>2</sup>. C : PUR WIRES 0.25mm<sup>2</sup>. D : PUR WIRES 0.34mm<sup>2</sup> WIRES LENGTH 00: WITHOUT WIRES 08:0.2m 0C:0.3m ... 1Z:1m CONTACTS TYPE PG7 : FIXIING THREAD OF THE PANEL. PG9 : FIXIING THREAD OF THE PANEL. M16 : FIXIING THREAD OF THE PANEL. M20 : FIXIING THREAD OF THE PANEL SOME VARIABLES

INOX : M12 COUPLING NUT IN STAINLESS STEEL (AISI304). IN316 : M12 COUPLING NUT IN STAINLESS STEEL (AISI316). C0 : CONNECTOR WITH CABLE. CUT : FIXING THREAD WITH ANTIROTATION CUT.

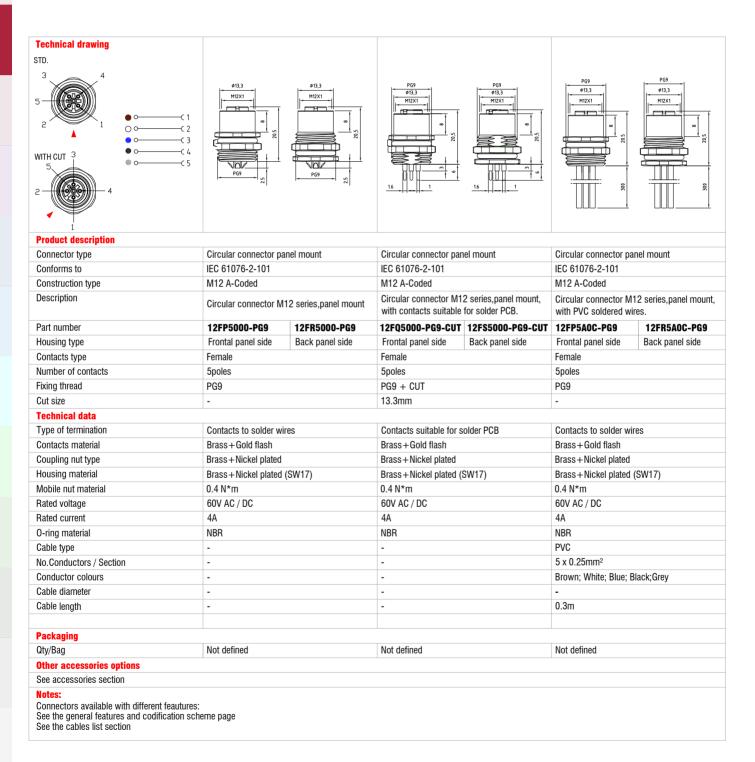


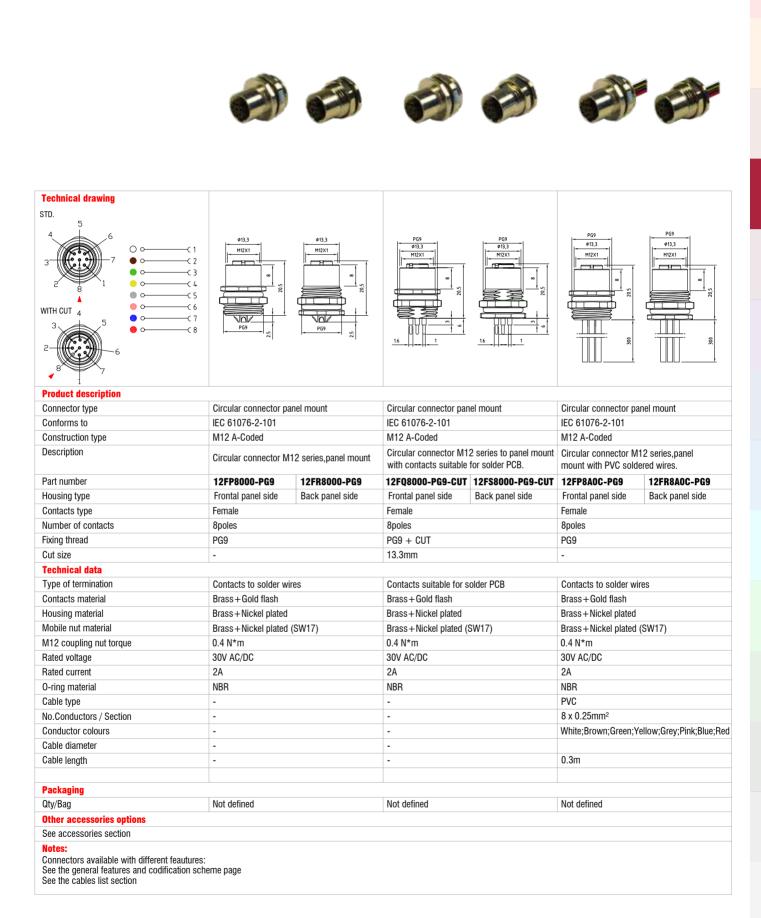






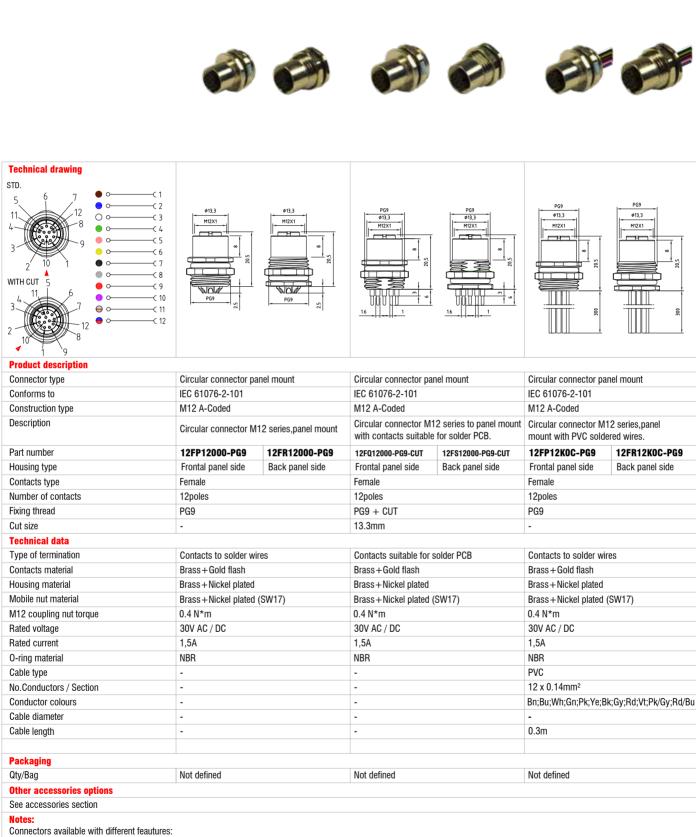






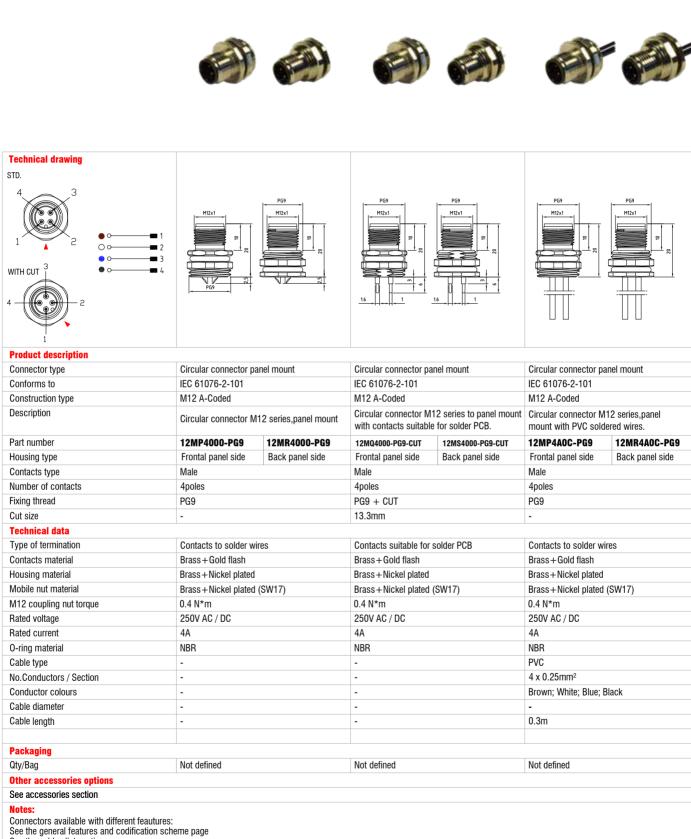


Panel mount - A-coded



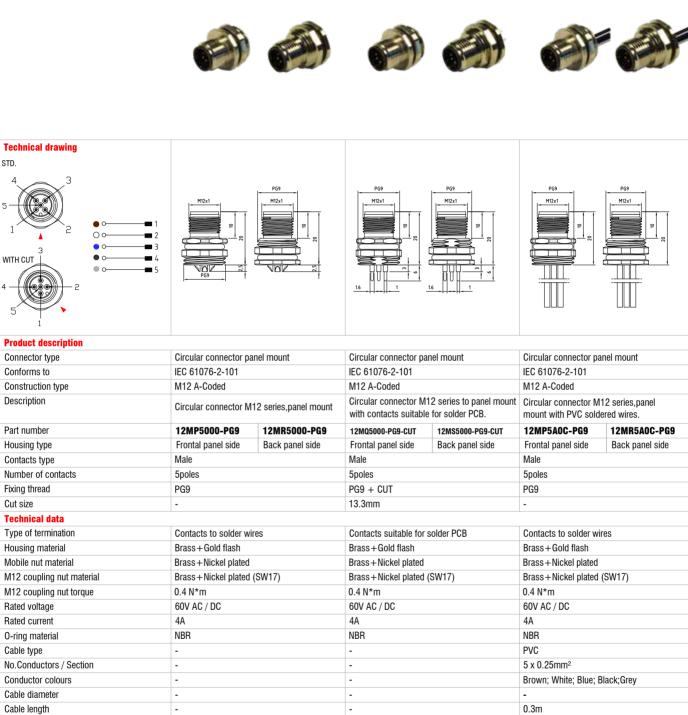


Panel mount - A-coded





Panel mount - A-coded



 Packaging

 Qty/Bag
 Not defined

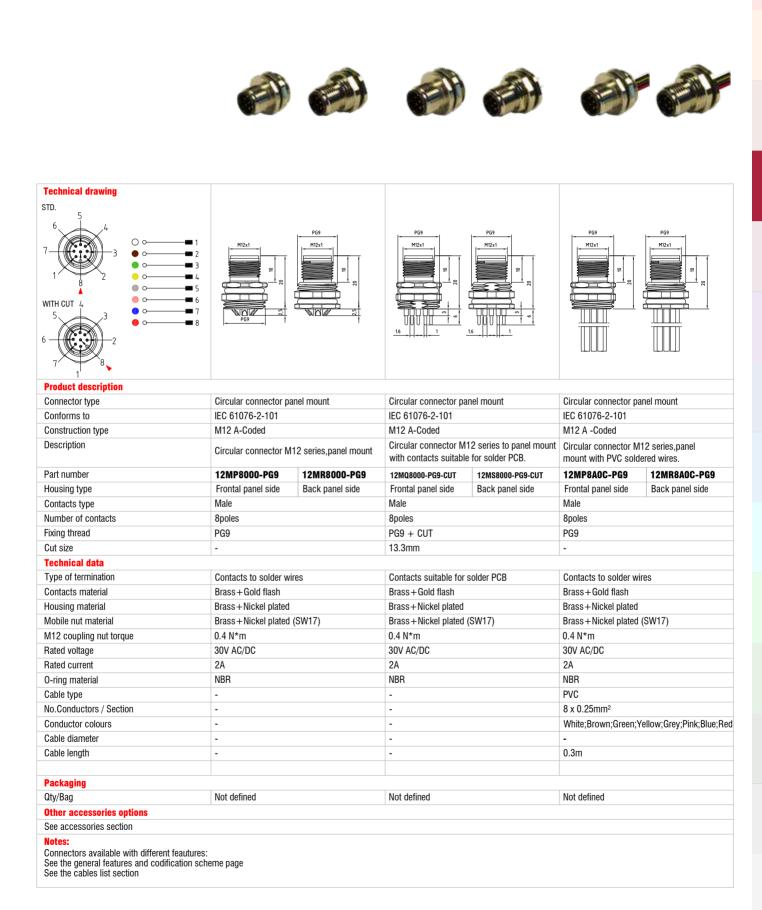
 Other accessories options

 See accessories section

Notes:

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







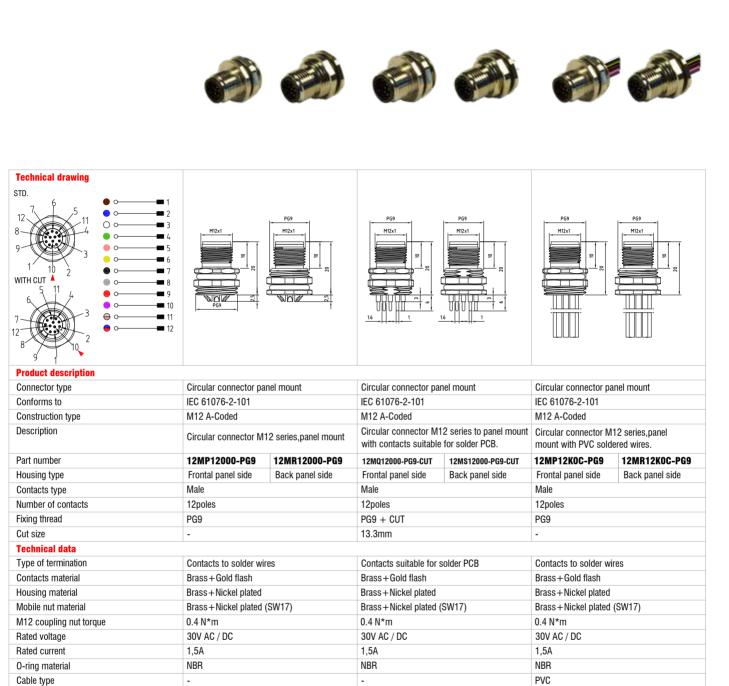
12 x 0.14mm<sup>2</sup>

0.3m

Not defined

Bn;Bu;Wh;Gn;Pk;Ye;Bk;Gy;Rd;Vt;Pk/Gy;Rd/Bu

Panel mount - A-coded



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Not defined

See the general features and codification scheme page See the cables list section

Connectors available with different feautures:

No.Conductors / Section

Other accessories options See accessories section

Conductor colours

Cable diameter

Cable length

Packaging Qty/Bag

Notes:

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Not defined

Panel mount - A-coded



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Technical drawing						
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	• o 4		• • • • • • • • • • •			
SW23 SW23 M20x1,5 PG13.5			• o <b>=</b> 5		) o 5 o 6	
	4	3	5	3		
	1	2	1	2		
Product description						
Connector type	Circular connector par	nel mount	Circular connector pan	nel mount	Circular connector par	nel 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 M1	2 series,panel mount,	Circular connector M1		Circular connector M1	2 series,panel mount,
	with PVC soldered wire	es	with PVC soldered wire	es	with PVC soldered wire	es
Part number	12MP4A0C-PG13.5	12MP4A0C-M20	12MP5A0C-PG13.5	12MP5A0C-M20	12MP8A0C-PG13.5	12MP8A0C-M20
Housing type	Frontal panel side		Frontal panel side		Frontal panel side	
Contacts type	Male		Male		Male	
Number of contacts	4poles	1	5poles		8poles	
Fixing thread	PG13.5	M20x1.5	PG13.5	M20x1.5	PG13.5	M20x1.5
Cut size	-		-		-	
Technical data						
Type of termination	Contacts to solder wire	es	Contacts to solder wire	es	Contacts to solder wire	es
Contacts material	Brass+Gold flash		Brass+Gold flash		Brass+Gold flash	
Housing material	Brass+Nickel plated		Brass+Nickel plated		Brass+Nickel plated	
Mobile coupling nut material	Brass+Nickel plated (S	SW22)	Brass+Nickel plated (S	SW22)	Brass+Nickel plated (S	SW22)
M12 coupling nut torque	0.4 N*m		0.4 N*m		0.4 N*m	
Rated voltage	250V AC / DC		60V AC / DC		30V AC / DC	
Rated current	4A		4A		2A	
O-ring material	NBR		NBR		NBR	
Cable type	PVC		PVC		PVC	
No.Conductors / Section	4 x 0.25mm <sup>2</sup>		5 x 0.25mm <sup>2</sup>		8 x 0.25mm <sup>2</sup>	
Conductor colours	Brown; White; Blue; Bl	ack	Brown; White; Blue; Bl	ack; Grey	White;Brown;Green;Ye	llow;Grey;Pink;Blue;Re
Cable diameter	•		•		•	
Cable length	0.3m		0.3m		0.3m	
Paakaging					N.J. J.C. J	
	Not defined		Not defined			
Packaging Qty/Bag	Not defined		Not defined		Not defined	
Qty/Bag Other accessories options	Not defined		Not defined		Not defined	
	Not defined		Not defined		Not defined	

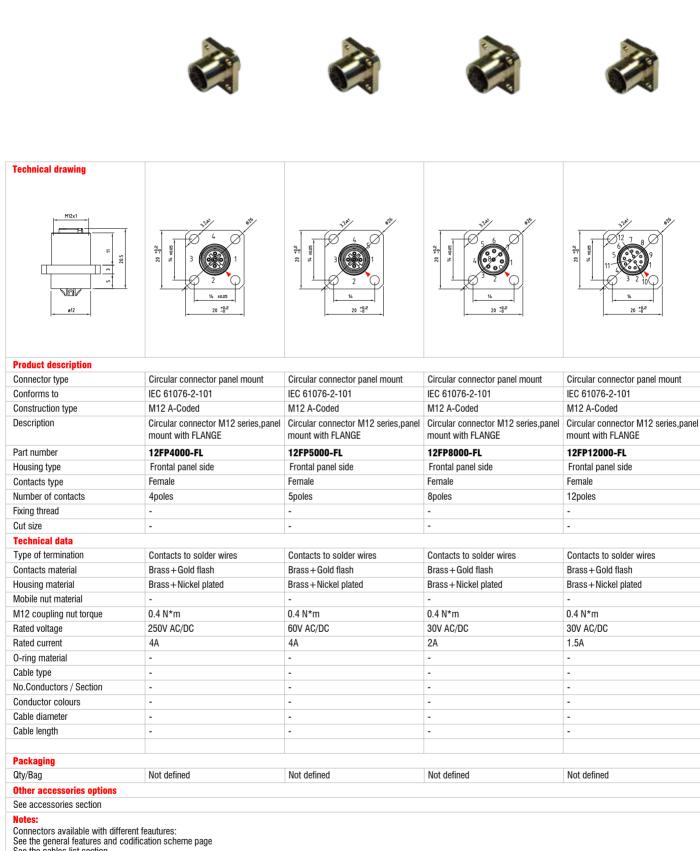


Panel mount - A-coded

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Technical drawing	● o■ 1		• o 🖬 1		O o∎ 1	
SW23 PG135 PG1						4-3
Product description					1	2 2
Connector type	Circular connector panel mount		Circular connector pan	el mount	Circular connector pan	el 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,pa		Circular connector M1	2 series panel mount	Circular connector M1	2 series panel mount
	plastic material, with PVC soldere		plastic material, with P		plastic material, with P	
Part number	12MPP4A0C-PG13.5 12MPP4	AOC-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 wire	S	Contacts to solder wire	S
Contacts material	Brass+Gold flash		Brass+Gold flash		Brass+Gold flash	
Housing material	PA66		PA66		PA66	
Mobile coupling nut material	-		-		-	
M12 coupling nut torque	0.4 N*m		0.4 N*m		0.4 N*m	
Rated voltage	250V AC / DC		60V AC / DC		30V AC / DC	
Rated current	4A		4A		2A	
O-ring material	NBR		NBR		NBR	
Cable type	PVC		PVC		PVC	
No.Conductors / Section	4 x 0.25mm <sup>2</sup>		5 x 0.25mm <sup>2</sup>		8 x 0.25mm <sup>2</sup>	
	Brown; White; Blue; Black		Brown; White; Blue; Bla	ack; Grey	White;Brown;Green;Yel	low;Grey;Pink;Blue;Rec
Conductor colours	-		-		-	
	0.3m		0.3m		0.3m	
Conductor colours Cable diameter Cable length	0.5111					
Cable diameter Cable length						
Cable diameter Cable length Packaging	Not defined		Not defined		Not defined	
Cable diameter Cable length Packaging Qty/Bag			Not defined		Not defined	
Cable diameter			Not defined		Not defined	

Panel mount - A-coded





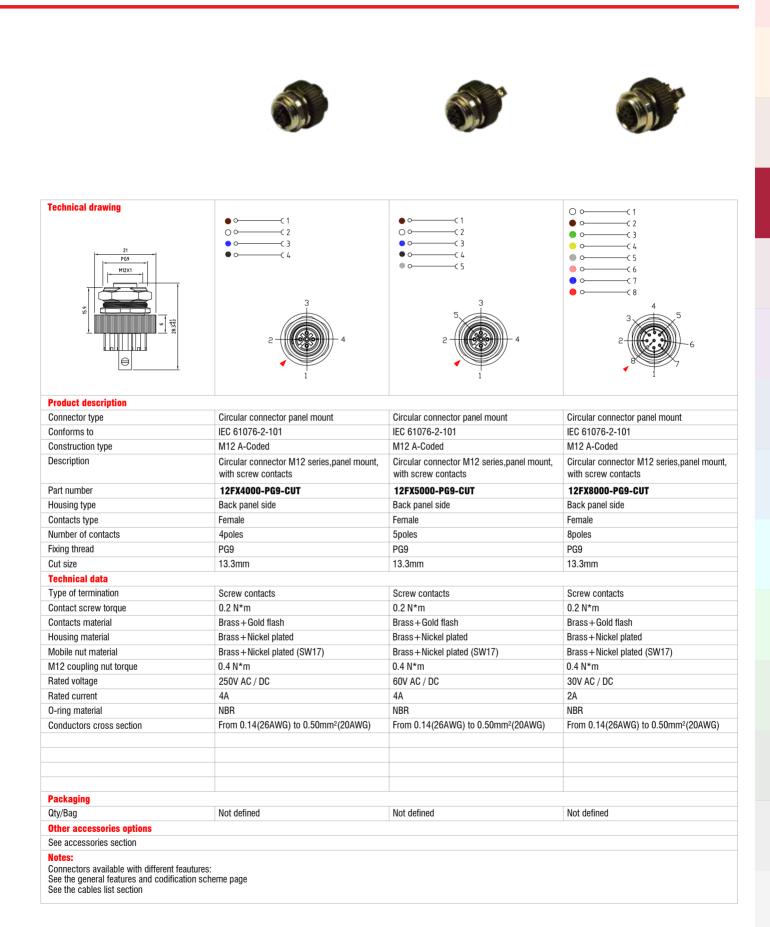
See the cables list section

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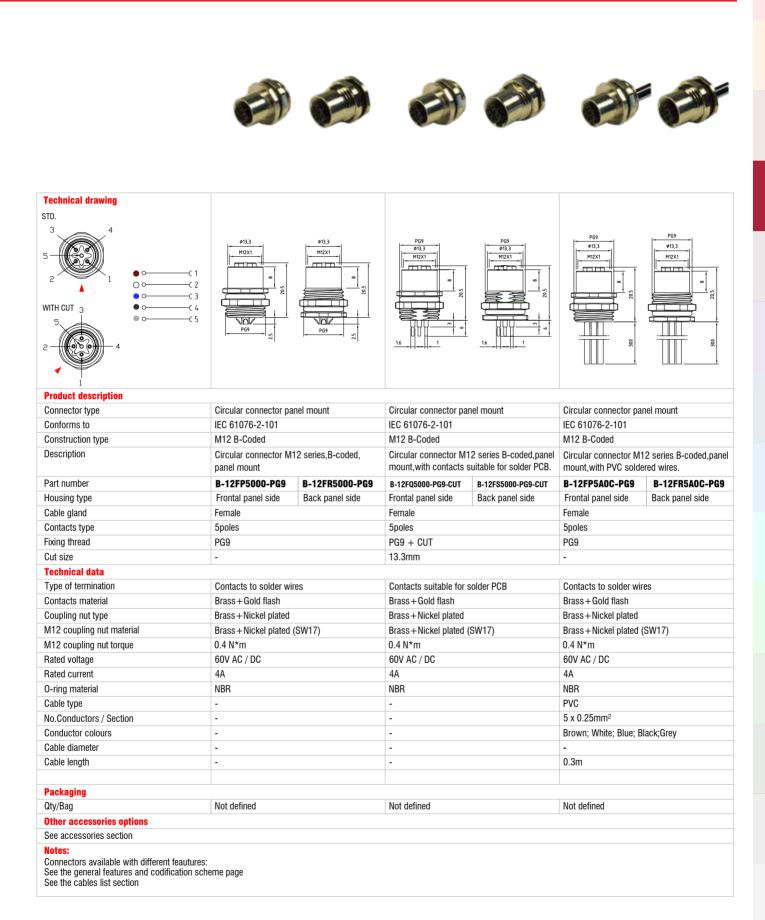






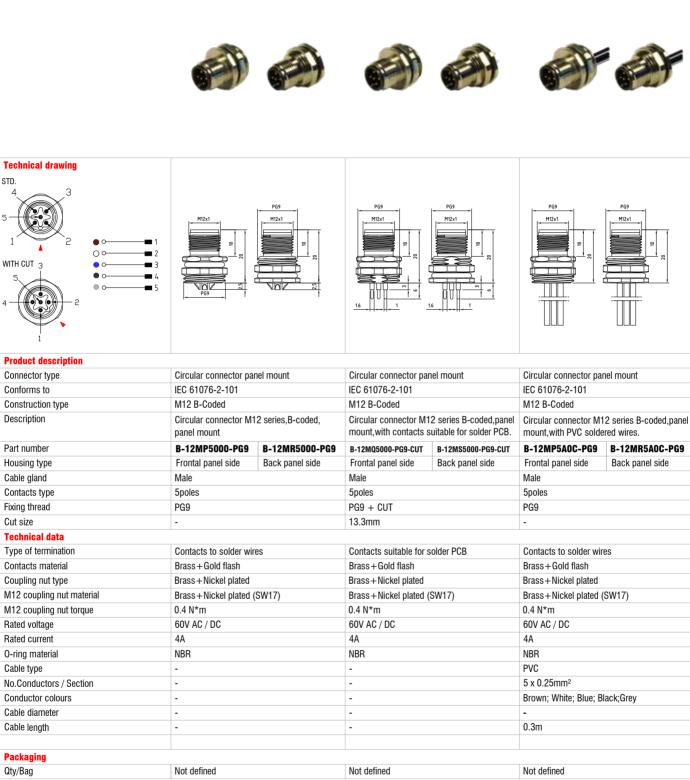


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M12×1	• o 4	• o 4	• • • • • 5
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		4	
		5	7
21	1	1	1 <sup>1</sup>
roduct description			
Connector type	Circular connector panel mount	Circular connector panel mount	Circular connector panel mount
Conforms 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,	Circular connector M12 series, panel m
Secondaria	with screw contacts	with screw contacts	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
	13.31111	13.31111	15.511111
lechnical data	O arrest a sector at a	O	O - many a - starts
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
Nobile nut material	Brass+Nickel plated (SW17)	Brass+Nickel plated (SW17)	Brass+Nickel plated (SW17)
V12 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
D-ring material	NBR	NBR	NBR
Conductors cross section	From 0.14(26AWG) to 0.50mm <sup>2</sup> (20AWG)	From 0.14(26AWG) to 0.50mm <sup>2</sup> (20AWG)	From 0.14(26AWG) to 0.50mm <sup>2</sup> (20AV
Packaging			
Qty/Bag	Not defined	Not defined	Not defined
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Other accessories options			
See accessories section			





Panel mount - B-coded



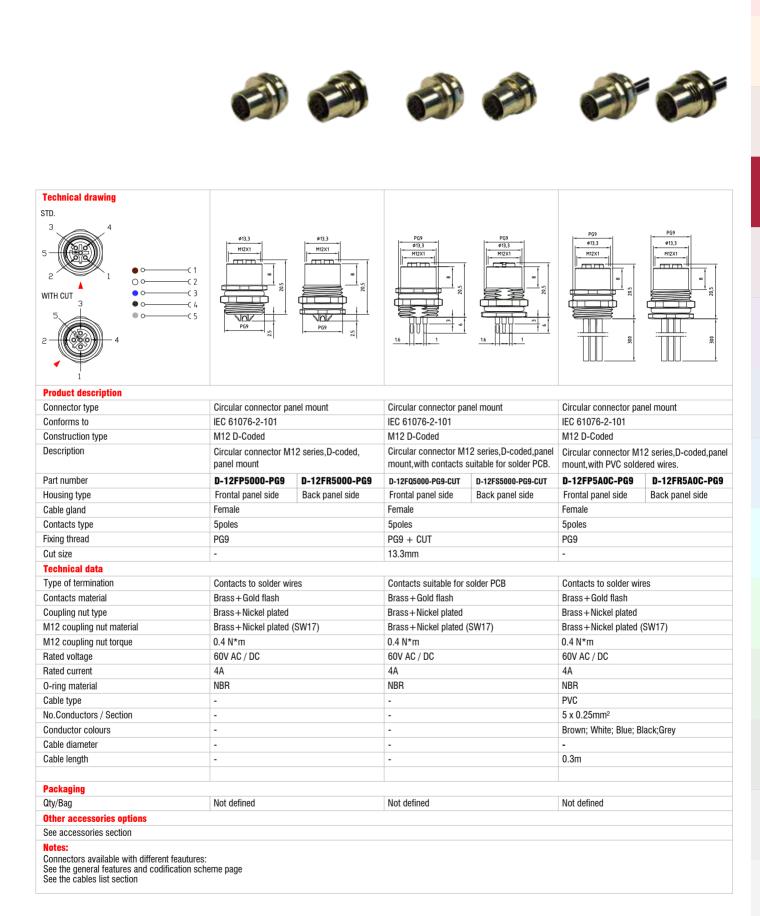
#### Other accessories options

See accessories section

Notes:

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







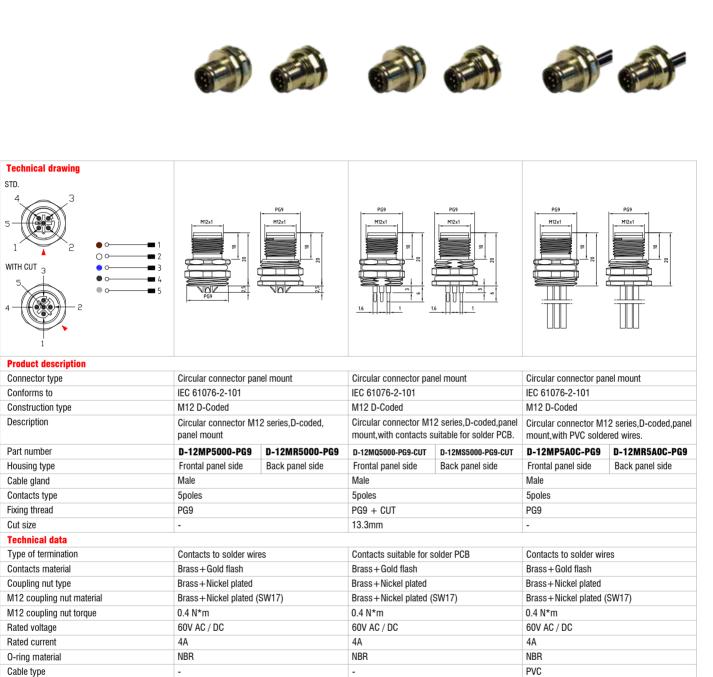
5 x 0.25mm<sup>2</sup>

0.3m

Not defined

Brown; White; Blue; Black;Grey

Panel mount - D-coded



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Not defined

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

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Not defined

No.Conductors / Section

Other accessories options See accessories section

Conductor colours

Cable diameter

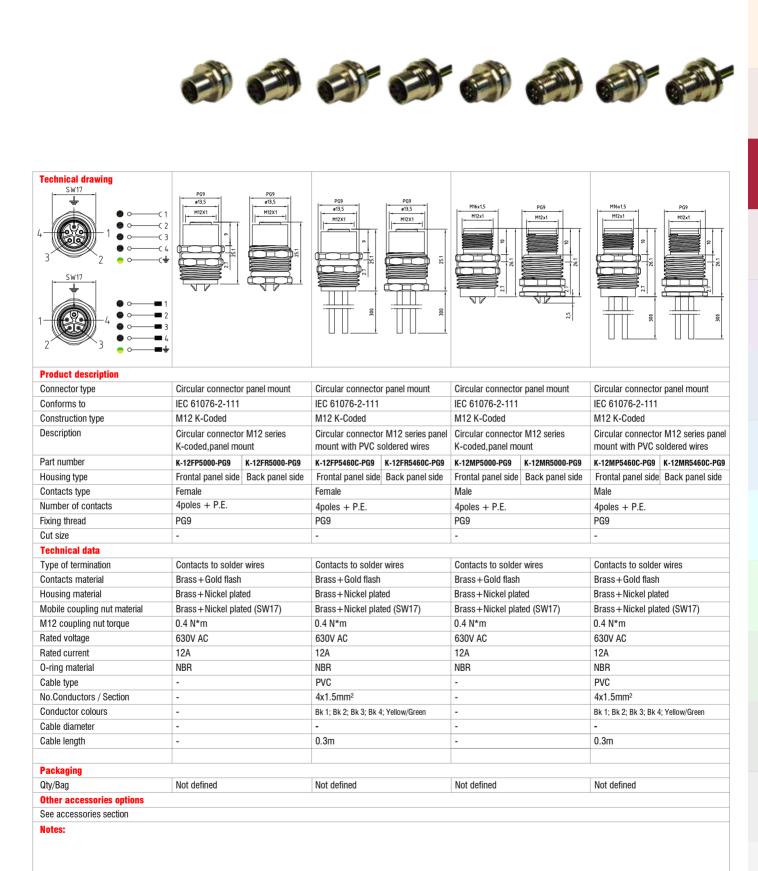
Cable length

Packaging

Qty/Bag

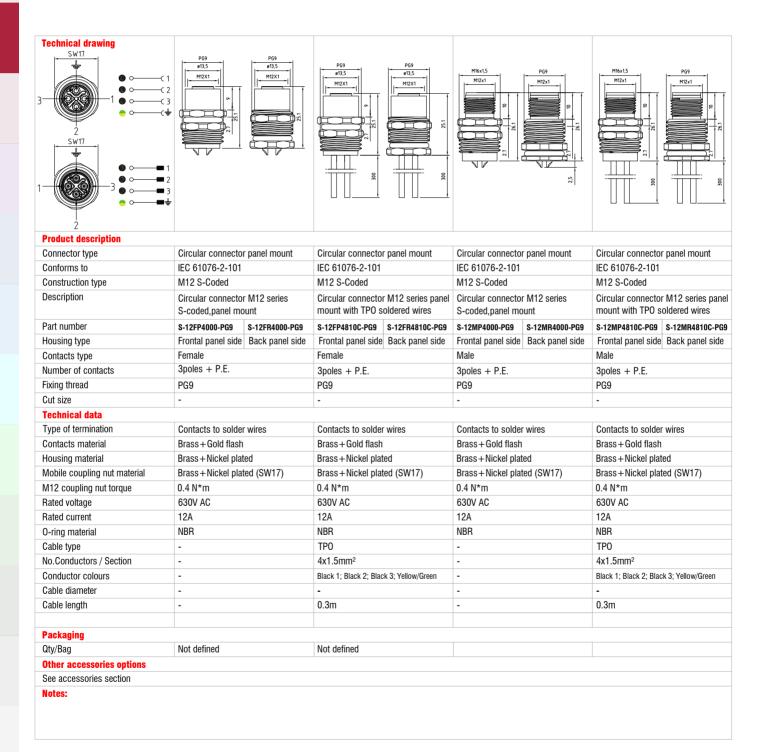
Notes:











Internal cores - A-coded



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¢9,4			o 6
	4 3	4 3	
- *			5
		5-((=))	6 4
\$9,6			1 8 2
			▲
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	Internal core of circular connector M12	Internal core of circular connector M12
	series,panel mount	series, panel mount	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
Fechnical 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
D-ring material	NBR	NBR	NBR
Cable type	-	-	
No.Conductors / Section Conductor colours	-	•	•
Cable diameter		-	•
Cable length			
Packaging			
Qty/Bag	Not defined	Not defined	Not defined
Other accessories options			
See accessories section			

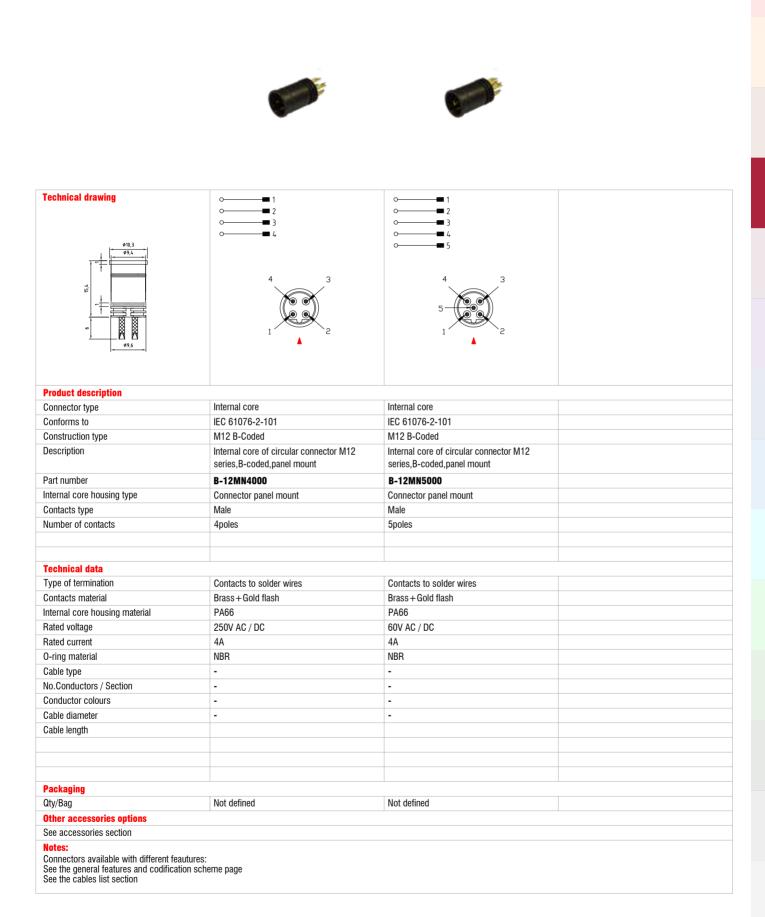


Internal cores - A-coded

connector typeInternal coreInternal coreInternal coreconnector typeIEC 61076-2-101IEC 61076-2-101IEC 61076-2-101construction typeM12 A-CodedM12 A-CodedM12 A-CodedbescriptionInternal core of circular connector M12 series, panel mountInternal core hountInternal core hourtInternal				
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Image: Contract to solder wires       Contacts to solder wires       Contacts to solder wires         Contacts to solder wires       Contacts to solder wires       Contacts to solder wires         Contacts to solder wires       Contacts to solder wires       Contacts to solder wires         Contacts to solder wires       Contacts to solder wires       Contacts to solder wires         Contacts to solder wires       Contacts to solder wires       Contacts to solder wires         Contacts to solder wires       Contacts to solder wires       Contacts to solder wires         Contacts to solder wires       Contacts to solder wires       Contacts to solder wires         Contacts to solder wires       Contacts to solder wires       Contacts to solder wires         Contacts to solder wires       Contacts to solder wires       Contacts to solder wires         Contacts to solder wires       Contacts to solder wires       Contacts to solder wires         Contacts to solder wires       Contacts to solder wires       Contacts to solder wires         Contacts to solder wires       Contacts to solder wires       Contacts to solder wires         Contacts to solder wires       Contacts to solder wires       Contacts to solder wires         Contacts to solder wires       Contacts to solder wires       Contacts to solder wires         Contactor solder datan       Famale       Fa	echnical drawing	o		o
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Image: second section       Image: second section       Image: second section         Product description       Internal core       Internal core         Condector type Source for type M12 A-Coded       M12 A-Coded       M12 A-Coded         Description No       Internal core of circular connector M12       Internal core of circular connector M12         Secting ion       Internal core of circular connector M12       Internal core of circular connector M12         Secting ion       Internal core of circular connector M12       Internal core of circular connector M12         Secting ion       Internal core of circular connector M12       Internal core of circular connector M12         Secting ion       Internal core panel mount       Connector panel mount         Connector panel mount       Connector panel mount       Connector panel mount         Contacts to panel mount       Connector panel mount       Connector panel mount         Contacts to solder wires       Spoles       Boles         Number of contacts to solder wires       Contacts to solder wires       Contacts to solder wires         Contacts to solder wires       Contacts to solder wires       Contacts to solder wires         Contacts to solder wires       Contacts to solder wires       Contacts to solder wires         Contacts to solder wires       Contactore       Source of circular connectore pane		3 4	3 4	
Line       A       A         Product description       Internal core       Internal core         Connector type       Internal core       Internal core         Conforms to       IEC 61075-2-101       IEC 61075-2-101         Description       Internal core of circular connector M12       Internal core of circular connector M12         Stratuction type       M12 A-Coded       M12 A-Coded       M12 A-Coded         Internal core of circular connector M12       series, panel mount       Series, panel mount       Series, panel mount         Pat number       12FN5000       12FN5000       12FN8000         Connector panel mount       Connector panel mount       Connector panel mount       Connector panel mount         Oratacts type       Female       Female       Famale         Number of contacts       4poles       Spoles       Spoles         Vigo of termination       Contacts to solder wires       Contacts to solder wires         Oratacts type       Contacts to solder wires       Contacts to solder wires         Oratacts material       PA66       PA66       PA66         Pater       A       A       A       A         Deving material       NBR       NBR       -       -         Conductor colurs		(263)	5-	4 6
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Product description     Internal core     Internal core       Conferents to     IEC 61076-2-101     IEC 61076-2-101     IEC 61076-2-101       Description     Internal core of circular connector M12     Internal core of circular connector M12     Internal core of circular connector M12       Description     Internal core of circular connector M12     Internal core of circular connector M12     Internal core of circular connector M12       Part number     12FN4000     12FN500     12FN500       Part number     12FN4000     12FN500     12FN500       Contacts type     Connector panel mount     Connector panel mount     Connector panel mount       Contacts type     Female     Female     Famale       Wumber of contacts     4poles     Spoles     Spoles       Vipe of termination     Contacts to solder wires     Contacts to solder wires       Contacts material     Brass + Gold flash     Brass + Gold flash     Brass + Gold flash       Pated voltage     250V AC / DC     60V AC / DC     30V AC / DC       Ated current     4A     4A     2A       Originaterial     NBR     NBR       Cable length     -     -       Outcotor colours     -     -       Cable length     -     -       Cable length     -     - <td< td=""><td></td><td>2 1</td><td>2 1</td><td>3</td></td<>		2 1	2 1	3
Connector type         Internal core         Internal core         Internal core           Conforms to         IEC 61076-2-101         IEC 61076-2-101         IEC 61076-2-101           Controution 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         Connector panel mount         Connector panel mount           Part number         Connector panel mount         Connector panel mount         Connector panel mount         Connector panel mount           Contacts type         Female         Female         Female         Female         Female           Contacts to solder wires           Contacts material         PA66         PA66         PA66         PA66         PA66           Conductor solutions         Female         Female <td< td=""><td>\$9.4</td><td>▲</td><td>•</td><td></td></td<>	\$9.4	▲	•	
Denforms toIEC 61076-2-101IEC 61076-2-101IEC 61076-2-101DescriptionM12 A-CodedM12 A-CodedM12 A-CodedM12 A-CodedDescriptionInternal core of circular connector M12 series, panel mountInternal core of circular connector M12 				2´ 8 `1
Connector type         Internal core         Internal core         Internal core           Connector type         IEC 61076-2-101         IEC 61076-2-101         IEC 61076-2-101           Construction type         M12 A-Coded         M12 A-Coded         M12 A-Coded           Serier, panel mount         Series, panel mount         Series, panel mount         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         Connector panel mount         Connector panel mount           Contracts type         Female         Female         Female         Female         Female           Contracts type         Female         Female         Female         Female         Female           Contracts type         Female         Female         Female         Female         Female           Contracts to solder wires           Contracts to solder wires         Contracts to solder wires         Contracts to solder wires         Contracts to solder wires         Contracts to solder wires           Contracts to solder wires         Contracts to solder wires         Contracts to solder wires				•
Sourtionms to bornforms to bornforms to bescription         IEC 61076-2-101         IEC 61076-2-101           W12 A-Coded         M12 A-Coded         M12 A-Coded         M12 A-Coded           Description         Internal core of circular connector M12 series, panel mount         Connector panel mount         Contacts to solder wires         Spoles		Internal core	Internal core	Internal core
Alg A-Coded         M12 A-Coded         M12 A-Coded         M12 A-Coded           Description         Internal core of circular connector M12 series, panel mount         Internal co				
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         12FN400         12FN500         12FN8000           Connector panel mount         Connector panel mount         Connector panel mount           Contacts type         Female         Female         Female           Vumber of contacts         4poles         5poles         8poles           Contacts to solder wires         Contacts to solder wires         Contacts to solder wires           Contacts to solder wires         Contacts to solder wires         Contacts to solder wires           Contacts to solder wires         Contacts to solder wires         Contacts to solder wires           Sontacts material         Brass+Gold flash         Brass+Gold flash         Brass+Gold flash           Ated voltage         250V AC / DC         60V AC / DC         30V AC / DC           Conductor colours         -         -         -           Conductor s/ Section         -         -         -           Conductor colours         -         -         -         -           Conductor colours         -         -         -         -           Conductor colours				
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nternal core housing typeConnector panel mountConnector panel mountConnector panel mountContacts typeFemaleFemaleFemaleVumber of contacts4polesSpoles8polesVumber of contacts4polesSpoles8polesVersion of contacts4polesSpoles8polesTechnical dataFemaleContacts to solder wiresContacts to solder wiresPrope of terminationContacts to solder wiresContacts to solder wiresContacts to solder wiresContacts materialBrass+Gold flashBrass+Gold flashBrass+Gold flashAted voltage250V AC / DC60V AC / DC30V AC / DCRated voltage250V AC / DC60V AC / DC30V AC / DCAted voltage250V AC / DC60V AC / DC30V AC / DCConductors / SectionConductor coloursConductor coloursCable digneterCable lengthCable lengthPackagingNot definedNot definedNot definedVoltare socies sortionNot definedNot definedNot defined				
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Number of contacts4poles5poles8polesImage: Contacts of Contacts o	nternal core housing type	Connector panel mount	Connector panel mount	Connector panel mount
Image: Addition of the section of t	Contacts type	Female	Female	Famale
Type of terminationContacts to solder wiresContacts to solder wiresContacts to solder wiresContacts materialBrass + Gold flashBrass + Gold flashBrass + Gold flashBrass + Gold flashnternal core housing materialPA66PA66PA66PA66Rated voltage250V AC / DC60V AC / DC30V AC / DCRated current4A4A2AO-ring materialNBRNBRNBRCable typeConductors / SectionConductor coloursCable diameterCable lengthCable lengthCable lengthCable lengthCable lengthCable lengthCable diameterCable lengthCable lengthCable lengthCable diameterCable diameterCable lengthCable diameterCable lengthCable diameterCable diameterCable diameterCable diameterCable diameter <td>Number of contacts</td> <td>4poles</td> <td>5poles</td> <td>8poles</td>	Number of contacts	4poles	5poles	8poles
Type of terminationContacts to solder wiresContacts to solder wiresContacts to solder wiresContacts materialBrass + Gold flashBrass + Gold flashBrass + Gold flashBrass + Gold flashnternal core housing materialPA66PA66PA66PA66Rated voltage250V AC / DC60V AC / DC30V AC / DCRated current4A4A2AO-ring materialNBRNBRNBRCable typeConductors / SectionConductor coloursCable diameterCable lengthCable lengthCable lengthCable lengthCable lengthCable lengthCable diameterCable lengthCable lengthCable lengthCable diameterCable diameterCable lengthCable diameterCable lengthCable diameterCable diameterCable diameterCable diameterCable diameter <td></td> <td></td> <td></td> <td></td>				
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D-ring materialNBRNBRNBRCable typeVo.Conductors / SectionConductor coloursCable diameterCable diameter<				
Cable type       -       -       -         No.Conductors / Section       -       -       -         Conductor colours       -       -       -         Cable diameter       -       -       -         Cable diameter       -       -       -         Cable diameter       -       -       -         Cable length       -       -       -         Cable length       -       -       -         Image: Cable length       -       -       -       -         Cable length       -       -       -       -       -         Cable length       -<				
No.Conductors / Section       -       -       -         Conductor colours       - </td <td></td> <td></td> <td></td> <td></td>				
Conductor coloursCable diameterCable diameterCable lengthCable lengthC		-	-	-
Cable length     -     -     -       Cable length		-	-	-
Image: Constraint of the section     Image: Constraint of the section     Image: Constraint of the section	Cable diameter	-	-	-
Dty/Bag     Not defined     Not defined       Dther accessories options       See accessories section	Cable length	-	-	-
Otty/Bag     Not defined     Not defined       Other accessories options     See accessories section				
Dty/Bag     Not defined     Not defined       Dther accessories options       See accessories section				
Otty/Bag     Not defined     Not defined       Other accessories options     See accessories section	Packaning			
Other accessories options See accessories section		Not defined	Not defined	Not defined
See accessories section				
AUGS.	Notes:			

Internal cores - B-coded







Internal cores - B-coded





Technical drawing	0	o	
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	2	2	
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\$9.4			
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	Internal core of circular connector M12	
	series,B-coded,panel mount	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 feautures	S.		
See the general features and codification scl See the cables list section	heme page		

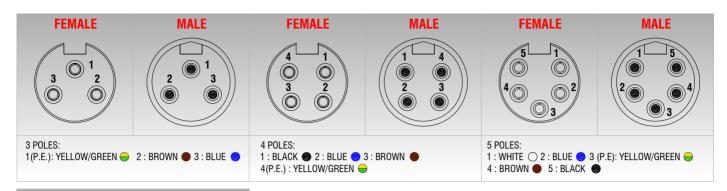




Field attachable connectors - General features and codification scheme

**Operating temperature :** 

-40°C +90°C.



# FEMALE MALE

1 : WHITE ○ 2 : BLUE ● 3(P.E.) : YELLOW/GREEN → 4 : BROWN ● 5 : BLACK ● 6 : GREY ●

#### • GENERAL FEATURES OF FIELD ATTACHABLE CONNECTORS:

Screw

Cable Gland : PG11 : Ø CABLE 6-10mm.

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

Max. screw torque IEC60947-1 :

7/8" coupling nut torque 0.8 N\*m.

Contact screw torque 0.4 N\*m.

Fixing system : 7/8" coupling nut. Brass + Gold flash. Housing material : PA66.

Type of terminations :

Contact material and treatment :

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).

78 F С 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.

Field attachable connectors



		-	-	-
Technical drawing				
	oC 1	o( 1	oC 1	o
¢28	oC 2	oC 2	o <u> </u>	o( 2
7/8"-16 UN	o( 3	o	o	o
			oC 5	o
				oC 6
66.3				
	(((°°°))))			
PG11				
Product description				
Connector type	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	field attachable	field attachable	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			
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			
Destasian				
Packaging Oty/Pag	1 pc / bag	1 no / hag	1 no / hag	1 no / hag
Qty/Bag	1 pc / bag			
Other accessories options				
See accessories section				
Notes: Connectors available with differ	rent feautures:			

See the general features and codification scheme page



Field attachable connectors

Fechnical drawing	Circular connector field attachable	Circular connector field attachable	Circular connector field attachable	
	Circular connector field attachable	Circular connector field attachable	Circular connector field attachable	
Product description	Circular connector field attachable	Circular connector field attachable	Circular connector field attachable	Circular connector field attach-b-
i ouuot ucsonption	Circular connector field attachable	Circular connector field attachable	Circular connector field attachable	Circular connector field attached
Connector type			Subular conficción fiela allacitable	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
lousing 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			
Contacts type	Male	Male	Male	Male
lumber of contacts	3poles (2p.+P.E.)	4poles (3p.+P.E.)	5poles (4p.+P.E.)	6poles (5p.+P.E.)
lousing colour	Black	Black	Black	Black
echnical data	·			1
ype of termination	Screw contacts	Screw contacts	Screw contacts	Screw contacts
ontact screw torque	0.4 N*m	0.4 N*m	0.4 N*m	0.4 N*m
ontacts 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
/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			
Rated current	12A	9A	9A	9A
Femperature range	-40°C +90°C	-40°C +90°C	-40°C +90°C	-40°C +90°C
)-ring material	NBR	NBR	NBR	NBR
Suitable cable	ø 6.5 - 9.5mm			
Packaging				
Qty/Bag	1 pc / bag			
Other accessories options	· P0 / buy	i po / bug	1 p3 / bug	1 po / bug
See accessories section				

Moulded cable connectors - General features and codification scheme



#### • GENERAL FEATURES OF MOULDED CONNECTORS:

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

Fixing system : 7/8" coupling nut.

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

Type of terminations : Solder wires.

Contact material and treatment :

Housing material : Polypropylene.

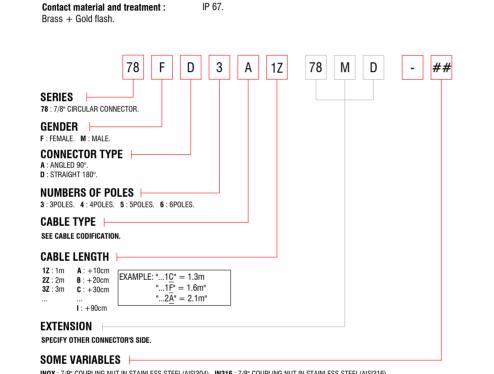
Protection class :

PVC

Internal core material :

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

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



INOX : 7/8" COUPLING NUT IN STAINLESS STEEL (AISI304). IN316 : 7/8" COUPLING NUT IN STAINLESS STEEL (AISI316). HN : HEXAGONAL 7/8" COUPLING NUT. S : Special stripping/peeling-tinng. Y : WITHOUT H.T.P.LOGO.

#### • CABLE CODIFICATION:

Code	Material	Type of cable	Colour	Section	No.core	Cable ø mm ±0.3	Temperature range °C
					3	ø 7.8mm	-20°C / +80°C
A	PVC/PVC	CEI2022	Black	1.50mm <sup>2</sup>	4	ø 10.2mm	-20°C / +80°C
					5	ø 11mm	-20°C / +80°C
					3 *	ø 7.8mm	-40°C / +80°C
C	PUR/PUR		Black	1.50mm <sup>2</sup>	4 *	ø 10.2mm	-40°C / +80°C
					5 *	ø 11mm	-40°C / +80°C
*	= Cables	with minimu	m quan	itity requi	red.		- 

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Moulded cable connectors

					C)	
Technical drawing			• • • (1 • • (2) • • (3) • • (4)			
Product description						
Connector type	Circular connector wit	h moulded cable	Circular connector wi	th moulded cable	Circular connector w	with moulded cable
Conforms to						
Construction type	7/8"-16 UN		7/8"-16 UN	o	7/8"-16 UN	
Description	Circular connector 7/8 cable	" series with moulded	cable	8" series with moulded	cable	/8" series with moulded
Part number	78FD3A1Z	78FA3A1Z	78FD4A1Z	78FA4A1Z	78FD5A1Z	78FA5A1Z
	TOTBOATE			Angled 00°	01	Angled 90°
	Straight 180°	Angled 90°	Straight 180°	Angled 90°	Straight 180°	Allyleu 30
lousing type		Angled 90°	Straight 180° Moulded cable	Aligieu 90	Moulded cable	Angled 50
łousing type Cable gland	Straight 180°	Angled 90°		Angled 90		Aligica 30
Housing type Cable gland Contacts type	Straight 180° Moulded cable Female	Angled 90°	Moulded cable	ผมของ	Moulded cable	Angled 30
Housing type Cable gland Contacts type Number of contacts	Straight 180° Moulded cable	Angled 90°	Moulded cable Female		Moulded cable Female	
Housing type Cable gland Contacts type Number of contacts Housing colour	Straight 180° Moulded cable Female 3poles (2p.+P.E.)	Angled 90°	Moulded cable Female 4poles (3p.+P.E.)	Angled 30	Moulded cable Female 5poles (4p.+P.E.)	
Housing type Cable gland Contacts type Number of contacts Housing colour Fechnical data	Straight 180° Moulded cable Female 3poles (2p.+P.E.)		Moulded cable Female 4poles (3p.+P.E.)		Moulded cable Female 5poles (4p.+P.E.)	
Housing type Cable gland Contacts type Number of contacts Housing colour Fechnical data Fype of termination	Straight 180° Moulded cable Female 3poles (2p.+P.E.) Black		Moulded cable Female 4poles (3p. + P.E.) Black		Moulded cable Female 5poles (4p.+P.E.) Black	
Housing type Cable gland Contacts type Number of contacts Housing colour Fechnical data Type of termination Contacts material	Straight 180° Moulded cable Female 3poles (2p.+P.E.) Black Contacts to solder wire		Moulded cable Female 4poles (3p. + P.E.) Black Contacts to solder with		Moulded cable Female 5poles (4p. + P.E.) Black Contacts to solder w	
Housing type Cable gland Contacts type Number of contacts Housing colour Technical data Type of termination Contacts material Coupling nut type	Straight 180° Moulded cable Female 3poles (2p.+P.E.) Black Contacts to solder wire Brass+Gold flash		Moulded cable Female 4poles (3p.+P.E.) Black Contacts to solder win Brass+Gold flash		Moulded cable Female 5poles (4p. + P.E.) Black Contacts to solder w Brass + Gold flash	vires
Housing type Cable gland Contacts type Number of contacts Housing colour Technical data Type of termination Contacts material Coupling nut type 7/8 " coupling nut material	Straight 180° Moulded cable Female 3poles (2p.+P.E.) Black Contacts to solder wire Brass+Gold flash Knurl round		Moulded cable Female 4poles (3p.+P.E.) Black Contacts to solder win Brass+Gold flash Knurl round		Moulded cable Female 5poles (4p. + P.E.) Black Contacts to solder w Brass + Gold flash Knurl round	vires
Housing type Cable gland Contacts type Number of contacts Housing colour Fechnical data Type of termination Contacts material Coupling nut type 7/8 " coupling nut material 7/8 " coupling nut torque	Straight 180° Moulded cable Female 3poles (2p.+P.E.) Black Contacts to solder wire Brass + Gold flash Knurl round Brass + Nickel plated	225	Moulded cable Female 4poles (3p.+P.E.) Black Contacts to solder wi Brass+Gold flash Knurl round Brass+Nickel plated	res	Moulded cable Female 5poles (4p. + P.E.) Black Contacts to solder w Brass + Gold flash Knurl round Brass + Nickel plated	rires
Housing type Cable gland Contacts type Number of contacts Housing colour Fechnical data Type of termination Contacts material Coupling nut type 7/8 " coupling nut material 7/8 " coupling nut torque Rated voltage	Straight 180° Moulded cable Female 3poles (2p.+P.E.) Black Contacts to solder wire Brass + Gold flash Knurl round Brass + Nickel plated 0.8 N*m	225	Moulded cable Female 4poles (3p.+P.E.) Black Contacts to solder wi Brass+Gold flash Knurl round Brass+Nickel plated 0.8 N*m	res	Moulded cable Female 5poles (4p. + P.E.) Black Contacts to solder w Brass + Gold flash Knurl round Brass + Nickel plated 0.8 N*m	rires
Housing type Cable gland Contacts type Number of contacts Housing colour Technical data Type of termination Contacts material Coupling nut type 7/8 " coupling nut material 7/8 " coupling nut torque Rated voltage Rated current	Straight 180° Moulded cable Female 3poles (2p. + P.E.) Black Contacts to solder wirr Brass + Gold flash Knurl round Brass + Nickel plated 0.8 N*m 300V AC / DC (max.60	225	Moulded cable Female 4poles (3p. + P.E.) Black Contacts to solder wi Brass + Gold flash Knurl round Brass + Nickel plated 0.8 N*m 300V AC / DC (max.6)	res	Moulded cable Female 5poles (4p, +P.E.) Black Contacts to solder w Brass + Gold flash Knurl round Brass + Nickel plated 0.8 N*m 300V AC / DC (max.	rires
Housing type Cable gland Contacts type Number of contacts Housing colour Fechnical data Type of termination Contacts material Coupling nut type 7/8 " coupling nut material 7/8 " coupling nut torque Rated voltage Rated current D-ring material	Straight 180° Moulded cable Female 3poles (2p. + P.E.) Black Contacts to solder wire Brass + Gold flash Knurl round Brass + Nickel plated 0.8 N*m 300V AC / DC (max.60 13A	225	Moulded cable Female 4poles (3p. + P.E.) Black Contacts to solder wi Brass + Gold flash Knurl round Brass + Nickel plated 0.8 N*m 300V AC / DC (max.6 10A	res	Moulded cable Female 5poles (4p, +P.E.) Black Contacts to solder w Brass + Gold flash Knurl round Brass + Nickel plated 0.8 N*m 300V AC / DC (max. 8A	rires
Housing type Cable gland Contacts type Number of contacts Housing colour Fechnical data Type of termination Contacts material Coupling nut type 7/8 " coupling nut material 7/8 " coupling nut torque Rated voltage Rated current D-ring material Cable type	Straight 180° Moulded cable Female 3poles (2p. + P.E.) Black Contacts to solder wirr Brass + Gold flash Knurl round Brass + Nickel plated 0.8 N*m 300V AC / DC (max.60 13A NBR	225	Moulded cable Female 4poles (3p. + P.E.) Black Contacts to solder wi Brass + Gold flash Knurl round Brass + Nickel plated 0.8 N*m 300V AC / DC (max.6 10A NBR	res	Moulded cable Female 5poles (4p, +P.E.) Black Contacts to solder w Brass + Gold flash Knurl round Brass + Nickel plated 0.8 N*m 300V AC / DC (max. 8A NBR	rires
Housing type Cable gland Contacts type Number of contacts Housing colour Fechnical data Type of termination Contacts material Coupling nut type 7/8 " coupling nut material 7/8 " coupling nut torque Rated voltage Rated voltage Rated current D-ring material Cable type Cable jacket colour	Straight 180° Moulded cable Female 3poles (2p. + P.E.) Black Contacts to solder wirr Brass + Gold flash Knurl round Brass + Nickel plated 0.8 N*m 300V AC / DC (max.60 13A NBR PVC/PVC CEI2022	225	Moulded cable Female 4poles (3p. + P.E.) Black Contacts to solder wi Brass + Gold flash Knurl round Brass + Nickel plated 0.8 N*m 300V AC / DC (max.6 10A NBR PVC/PVC CEI2022	res	Moulded cable Female 5poles (4p, +P.E.) Black Contacts to solder w Brass + Gold flash Knurl round Brass + Nickel plated 0.8 N*m 300V AC / DC (max. 8A NBR PVC/PVC CEI2022	rires
Housing type Cable gland Contacts type Number of contacts Housing colour <b>Technical data</b> Type of termination Contacts material Coupling nut type 7/8 " coupling nut material 7/8 " coupling nut torque Rated voltage Rated voltage Rated voltage Coble type Cable type Cable jacket colour No.Conductors / Section	Straight 180° Moulded cable Female 3poles (2p. + P.E.) Black Contacts to solder wire Brass + Gold flash Knurl round Brass + Nickel plated 0.8 N*m 300V AC / DC (max.60 13A NBR PVC/PVC CEI2022 Black	es DOV AC/DC)	Moulded cable Female 4poles (3p. +P.E.) Black Contacts to solder wi Brass + Gold flash Knurl round Brass + Nickel plated 0.8 N*m 300V AC / DC (max.6 10A NBR PVC/PVC CEI2022 Black	res i00V AC/DC)	Moulded cable Female 5poles (4p. + P.E.) Black Contacts to solder w Brass + Gold flash Knurl round Brass + Nickel plated 0.8 N*m 300V AC / DC (max. 8A NBR PVC/PVC CEI2022 Black 5x1.50mm <sup>2</sup>	rires
Housing type Cable gland Contacts type Number of contacts Housing colour <b>Technical data</b> Type of termination Contacts material Coupling nut type 7/8 " coupling nut material 7/8 " coupling nut torque Rated voltage Rated voltage Rated current O-ring material Cable type Cable jacket colour No.Conductors / Section Conductor colours	Straight 180° Moulded cable Female 3poles (2p. + P.E.) Black Contacts to solder wire Brass + Gold flash Knurl round Brass + Nickel plated 0.8 N*m 300V AC / DC (max.60 13A NBR PVC/PVC CEI2022 Black 3x1.50mm <sup>2</sup>	es DOV AC/DC)	Moulded cable Female 4poles (3p. +P.E.) Black Contacts to solder with Brass + Gold flash Knurl round Brass + Nickel plated 0.8 N*m 300V AC / DC (max.6 10A NBR PVC/PVC CEI2022 Black 4x1.50mm <sup>2</sup>	res i00V AC/DC)	Moulded cable Female 5poles (4p. +P.E.) Black Contacts to solder w Brass + Gold flash Knurl round Brass + Nickel plated 0.8 N*m 300V AC / DC (max. 8A NBR PVC/PVC CEI2022 Black 5x1.50mm <sup>2</sup> White; Blue; Yellow/	ires 600V AC/DC)
Housing type Cable gland Contacts type Number of contacts Housing colour <b>Technical data</b> Type of termination Contacts material Coupling nut type 7/8 " coupling nut material 7/8 " coupling nut torque Rated voltage Rated voltage Rated voltage Cable jacket colour No.Conductors / Section Conductor colours Cable diameter	Straight 180° Moulded cable Female 3poles (2p. + P.E.) Black Contacts to solder wire Brass + Gold flash Knurl round Brass + Nickel plated 0.8 N*m 300V AC / DC (max.60 13A NBR PVC/PVC CEI2022 Black 3x1.50mm <sup>2</sup> Yellow/green; Brown;	es DOV AC/DC)	Moulded cable Female 4poles (3p.+P.E.) Black Contacts to solder with Brass + Gold flash Knurl round Brass + Nickel plated 0.8 N*m 300V AC / DC (max.6) 10A NBR PVC/PVC CEI2022 Black 4x1.50mm <sup>2</sup> Black; Blue; Brown; Y	res i00V AC/DC)	Moulded cable Female 5poles (4p. + P.E.) Black Contacts to solder w Brass + Gold flash Knurl round Brass + Nickel plated 0.8 N*m 300V AC / DC (max. 8A NBR PVC/PVC CEI2022 Black 5x1.50mm <sup>2</sup>	ires 600V AC/DC)
Housing type Cable gland Contacts type Number of contacts Housing colour <b>Technical data</b> Type of termination Contacts material Coupling nut type 7/8 " coupling nut material 7/8 " coupling nut torque Rated voltage Rated current O-ring material Cable type Cable jacket colour No.Conductors / Section Conductor colours Cable diameter Cable length	Straight 180°         Moulded cable         Female         3poles (2p. + P.E.)         Black         Contacts to solder wire         Brass + Gold flash         Knurl round         Brass + Nickel plated         0.8 N*m         300V AC / DC (max.60         13A         NBR         PVC/PVC CEI2022         Black         3x1.50mm²         Yellow/green; Brown;         ø7.8mm (±0.3)	es DOV AC/DC)	Moulded cable Female 4poles (3p.+P.E.) Black Contacts to solder win Brass+Gold flash Knurl round Brass+Nickel plated 0.8 N*m 300V AC / DC (max.6 10A NBR PVC/PVC CEI2022 Black 4x1.50mm <sup>2</sup> Black; Blue; Brown; Y ø10.2mm (±0.3)	res i00V AC/DC)	Moulded cable Female 5poles (4p.+P.E.) Black Contacts to solder w Brass + Gold flash Knurl round Brass + Nickel plated 0.8 N*m 300V AC / DC (max. 8A NBR PVC/PVC CEI2022 Black 5x1.50mm <sup>2</sup> White; Blue; Yellow/ ø11mm (±0.3)	ires 600V AC/DC)
Housing type Cable gland Contacts type Number of contacts Housing colour Technical data Type of termination Contacts material Coupling nut type 7/8 " coupling nut material 7/8 " coupling nut torque Rated voltage Rated voltage Rated voltage Rated current O-ring material Cable type Cable jacket colour No.Conductors / Section Conductor colours Cable lameter Cable length Packaging Qty/Bag	Straight 180°         Moulded cable         Female         3poles (2p. + P.E.)         Black         Contacts to solder wire         Brass + Gold flash         Knurl round         Brass + Nickel plated         0.8 N*m         300V AC / DC (max.60         13A         NBR         PVC/PVC CEI2022         Black         3x1.50mm²         Yellow/green; Brown;         ø7.8mm (±0.3)	es DOV AC/DC)	Moulded cable Female 4poles (3p.+P.E.) Black Contacts to solder win Brass+Gold flash Knurl round Brass+Nickel plated 0.8 N*m 300V AC / DC (max.6 10A NBR PVC/PVC CEI2022 Black 4x1.50mm <sup>2</sup> Black; Blue; Brown; Y ø10.2mm (±0.3)	res i00V AC/DC)	Moulded cable Female 5poles (4p.+P.E.) Black Contacts to solder w Brass + Gold flash Knurl round Brass + Nickel plated 0.8 N*m 300V AC / DC (max. 8A NBR PVC/PVC CEI2022 Black 5x1.50mm <sup>2</sup> White; Blue; Yellow/ ø11mm (±0.3)	ires 600V AC/DC)

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

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Moulded cable connectors



Technical drawing			• • • •			1
		1	• •			
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	Circular connector	7/8" series with moulded	Circular connector	7/8" series with moul
	cable		cable		cable	
Part number	78MD3A1Z	78MA3A1Z	78MD4A1Z	78MA4A1Z	78MD5A1Z	
Housing type	Straight 180°			7 61WIA4A 1 Z	78MDJA12	78MA5A1Z
		Angled 90°	Straight 180°	Angled 90°	Straight 180°	78MA5A1Z Angled 90°
Cable gland	Moulded cable	Angled 90°	Moulded cable			
Cable gland Contacts type	Male	Angled 90°	Moulded cable Male		Straight 180° Moulded cable Male	
Cable gland Contacts type lumber of contacts	Male 3poles (2p.+P.E.)	Angled 90°	Moulded cable Male 4poles (3p.+P.E.)		Straight 180° Moulded cable Male 5poles (4p.+P.E.)	
Cable gland Contacts type Number of contacts Housing colour	Male	Angled 90°	Moulded cable Male		Straight 180° Moulded cable Male	
Cable gland Contacts type Number of contacts Housing colour Fechnical data	Male 3poles (2p. + P.E.) Black		Moulded cable Male 4poles (3p. + P.E.) Black	Angled 90°	Straight 180° Moulded cable Male 5poles (4p.+P.E.) Black	Angled 90°
Cable gland Contacts type Jumber of contacts Housing colour Fechnical data Fype of termination	Male 3poles (2p.+P.E.) Black Contacts to solder v		Moulded cable Male 4poles (3p. + P.E.) Black Contacts to solder	Angled 90°	Straight 180° Moulded cable Male 5poles (4p.+P.E.) Black Contacts to solder	Angled 90°
Cable gland Contacts type Jumber of contacts Housing colour Fechnical data Fype of termination Contacts material	Male 3poles (2p.+P.E.) Black Contacts to solder v Brass+Gold flash		Moulded cable Male 4poles (3p. + P.E.) Black Contacts to solder Brass + Gold flash	Angled 90°	Straight 180° Moulded cable Male 5poles (4p.+P.E.) Black Contacts to solder Brass+Gold flash	Angled 90°
Cable gland Contacts type Number of contacts Housing colour Fechnical data Fype of termination Contacts material Coupling nut type	Male 3poles (2p. +P.E.) Black Contacts to solder v Brass + Gold flash Knurl round	vires	Moulded cable Male 4poles (3p. + P.E.) Black Contacts to solder Brass + Gold flash Knurl round	Angled 90° wires	Straight 180° Moulded cable Male 5poles (4p. +P.E.) Black Contacts to solder Brass + Gold flash Knurl round	Angled 90° wires
Cable gland Contacts type Number of contacts Housing colour Fechnical data Type of termination Contacts material Coupling nut type 7/8 " coupling nut material	Male 3poles (2p. +P.E.) Black Contacts to solder v Brass + Gold flash Knurl round Brass + Nickel plate	vires	Moulded cable Male 4poles (3p. + P.E.) Black Contacts to solder Brass + Gold flash Knurl round Brass + Nickel plate	Angled 90° wires	Straight 180° Moulded cable Male 5poles (4p. + P.E.) Black Contacts to solder Brass + Gold flash Knurl round Brass + Nickel plate	Angled 90° wires
Cable gland Contacts type Number of contacts Housing colour Fechnical data Type of termination Contacts material Coupling nut type 7/8 " coupling nut material 7/8 " coupling nut torque	Male 3poles (2p. +P.E.) Black Contacts to solder v Brass + Gold flash Knurl round Brass + Nickel plater 0.8 N*m	wires d	Moulded cable Male 4poles (3p. + P.E.) Black Contacts to solder Brass + Gold flash Knurl round Brass + Nickel plate 0.8 N*m	Angled 90° wires	Straight 180° Moulded cable Male 5poles (4p. + P.E.) Black Contacts to solder Brass + Gold flash Knurl round Brass + Nickel plate 0.8 N*m	Angled 90° wires
Cable gland Contacts type Number of contacts Housing colour Fechnical data Type of termination Contacts material Coupling nut type 7/8 " coupling nut material 7/8 " coupling nut torque Rated voltage	Male 3poles (2p. +P.E.) Black Contacts to solder v Brass + Gold flash Knurl round Brass + Nickel plate 0.8 N*m 300V AC / DC (max	wires d	Moulded cable Male 4poles (3p. + P.E.) Black Contacts to solder Brass + Gold flash Knurl round Brass + Nickel plate 0.8 N*m 300V AC / DC (max	Angled 90° wires	Straight 180° Moulded cable Male 5poles (4p. + P.E.) Black Contacts to solder Brass + Gold flash Knurl round Brass + Nickel plate 0.8 N*m 300V AC / DC (max	Angled 90° wires
Cable gland Contacts type Number of contacts Housing colour Fechnical data Type of termination Contacts material Coupling nut type 7/8 " coupling nut material 7/8 " coupling nut torque Rated voltage Rated current	Male 3poles (2p. +P.E.) Black Contacts to solder v Brass + Gold flash Knurl round Brass + Nickel plate 0.8 N*m 300V AC / DC (max 13A	wires d	Moulded cable Male 4poles (3p. + P.E.) Black Contacts to solder Brass + Gold flash Knurl round Brass + Nickel plate 0.8 N*m 300V AC / DC (may 10A	Angled 90° wires	Straight 180° Moulded cable Male 5poles (4p. + P.E.) Black Contacts to solder Brass + Gold flash Knurl round Brass + Nickel plate 0.8 N*m 300V AC / DC (max 8A	Angled 90° wires
Cable gland Contacts type Aumber of contacts Housing colour Fechnical data Fype of termination Contacts material Coupling nut type 7/8 " coupling nut material 7/8 " coupling nut torque Rated voltage Rated current D-ring material	Male 3poles (2p. +P.E.) Black Contacts to solder v Brass + Gold flash Knurl round Brass + Nickel plate 0.8 N*m 300V AC / DC (max 13A -	wires d	Moulded cable Male 4poles (3p. + P.E.) Black Contacts to solder Brass + Gold flash Knurl round Brass + Nickel plate 0.8 N*m 300V AC / DC (max 10A -	Angled 90° wires	Straight 180° Moulded cable Male 5poles (4p. + P.E.) Black Contacts to solder Brass + Gold flash Knurl round Brass + Nickel plate 0.8 N*m 300V AC / DC (max 8A -	Angled 90° wires
Cable gland Contacts type Number of contacts Housing colour Fechnical data Type of termination Contacts material Coupling nut type 7/8 " coupling nut material 7/8 " coupling nut torque Rated voltage Rated current D-ring material Cable type	Male 3poles (2p. +P.E.) Black Contacts to solder v Brass + Gold flash Knurl round Brass + Nickel plate 0.8 N*m 300V AC / DC (max 13A - PVC/PVC CEI2022	wires d	Moulded cable Male 4poles (3p. + P.E.) Black Contacts to solder Brass + Gold flash Knurl round Brass + Nickel plate 0.8 N*m 300V AC / DC (max 10A - PVC/PVC CEI2022	Angled 90° wires	Straight 180° Moulded cable Male 5poles (4p. + P.E.) Black Contacts to solder Brass + Gold flash Knurl round Brass + Nickel plate 0.8 N*m 300V AC / DC (max 8A - PVC/PVC CEI2022	Angled 90° wires
Cable gland Contacts type Aumber of contacts Housing colour Fechnical data Fype of termination Contacts material Coupling nut type 7/8 " coupling nut material 7/8 " coupling nut torque Rated voltage Rated current D-ring material Cable type Cable jacket colour	Male 3poles (2p. +P.E.) Black Contacts to solder v Brass + Gold flash Knurl round Brass + Nickel plate 0.8 N*m 300V AC / DC (max 13A - PVC/PVC CEI2022 Black	wires d	Moulded cable Male 4poles (3p. + P.E.) Black Contacts to solder Brass + Gold flash Knurl round Brass + Nickel plate 0.8 N*m 300V AC / DC (max 10A - PVC/PVC CEI2022 Black	Angled 90° wires	Straight 180° Moulded cable Male 5poles (4p. + P.E.) Black Contacts to solder Brass + Gold flash Knurl round Brass + Nickel plate 0.8 N*m 300V AC / DC (max 8A - PVC/PVC CEI2022 Black	Angled 90° wires
Cable gland Contacts type Number of contacts Housing colour <b>Fechnical data</b> Type of termination Contacts material Coupling nut type 7/8 " coupling nut material 7/8 " coupling nut torque Rated voltage Rated current O-ring material Cable type Cable jacket colour No.Conductors / Section	Male 3poles (2p. +P.E.) Black Contacts to solder v Brass + Gold flash Knurl round Brass + Nickel plate 0.8 N*m 300V AC / DC (max 13A - PVC/PVC CEI2022 Black 3x1.50mm <sup>2</sup>	vires d .600V AC/DC)	Moulded cable Male 4poles (3p. +P.E.) Black Contacts to solder Brass + Gold flash Knurl round Brass + Nickel plate 0.8 N*m 300V AC / DC (max 10A - PVC/PVC CEI2022 Black 4x1.50mm <sup>2</sup>	Angled 90° wires d c.600V AC/DC)	Straight 180° Moulded cable Male 5poles (4p. + P.E.) Black Contacts to solder Brass + Gold flash Knurl round Brass + Nickel plate 0.8 N*m 300V AC / DC (max 8A - PVC/PVC CEI2022 Black 5x1.50mm <sup>2</sup>	Angled 90° wires d c.600V AC/DC)
Cable gland Contacts type Number of contacts Housing colour Technical data Type of termination Contacts material Coupling nut type 7/8 " coupling nut material 7/8 " coupling nut torque Rated voltage Rated voltage Rated voltage Cable type Cable jacket colour No.Conductors / Section Conductor colours	Male 3poles (2p. +P.E.) Black Contacts to solder v Brass + Gold flash Knurl round Brass + Nickel plate 0.8 N*m 300V AC / DC (max 13A - PVC/PVC CEI2022 Black 3x1.50mm <sup>2</sup> Yellow/green; Brow	vires d .600V AC/DC)	Moulded cable Male 4poles (3p. + P.E.) Black Contacts to solder Brass + Gold flash Knurl round Brass + Nickel plate 0.8 N*m 300V AC / DC (max 10A - PVC/PVC CEI2022 Black 4x1.50mm <sup>2</sup> Black; Blue; Brown	Angled 90° wires d c.600V AC/DC)	Straight 180° Moulded cable Male 5poles (4p. + P.E.) Black Contacts to solder Brass + Gold flash Knurl round Brass + Nickel plate 0.8 N*m 300V AC / DC (max 8A - PVC/PVC CEI2022 Black 5x1.50mm <sup>2</sup> White; Blue; Yellow	Angled 90° wires
Cable gland Contacts type Number of contacts Housing colour <b>Technical data</b> Type of termination Contacts material Coupling nut type 7/8 " coupling nut material 7/8 " coupling nut torque Rated voltage Rated voltage Rated current O-ring material Cable type Cable jacket colour No.Conductors / Section Conductor colours Cable diameter	Male 3poles (2p. +P.E.) Black Contacts to solder v Brass + Gold flash Knurl round Brass + Nickel plate 0.8 N*m 300V AC / DC (max 13A - PVC/PVC CEI2022 Black 3x1.50mm <sup>2</sup> Yellow/green; Brow Ø7.8mm (±0.3)	vires d .600V AC/DC)	Moulded cable Male 4poles (3p. + P.E.) Black Contacts to solder Brass + Gold flash Knurl round Brass + Nickel plate 0.8 N*m 300V AC / DC (max 10A - PVC/PVC CEI2022 Black 4x1.50mm <sup>2</sup> Black; Blue; Brown ø10.2mm (±0.3)	Angled 90° wires d c.600V AC/DC)	Straight 180° Moulded cable Male 5poles (4p. + P.E.) Black Contacts to solder Brass + Gold flash Knurl round Brass + Nickel plate 0.8 N*m 300V AC / DC (max 8A - PVC/PVC CEI2022 Black 5x1.50mm <sup>2</sup> White; Blue; Yellow ø11mm (±0.3)	Angled 90° wires d c.600V AC/DC)
Cable gland Contacts type Number of contacts Housing colour Technical data Type of termination Contacts material Coupling nut type 7/8 " coupling nut material 7/8 " coupling nut torque Rated voltage Rated voltage Rated voltage Cable type Cable jacket colour No.Conductors / Section Conductor colours	Male 3poles (2p. +P.E.) Black Contacts to solder v Brass + Gold flash Knurl round Brass + Nickel plate 0.8 N*m 300V AC / DC (max 13A - PVC/PVC CEI2022 Black 3x1.50mm <sup>2</sup> Yellow/green; Brow	vires d .600V AC/DC)	Moulded cable Male 4poles (3p. + P.E.) Black Contacts to solder Brass + Gold flash Knurl round Brass + Nickel plate 0.8 N*m 300V AC / DC (max 10A - PVC/PVC CEI2022 Black 4x1.50mm <sup>2</sup> Black; Blue; Brown	Angled 90° wires d c.600V AC/DC)	Straight 180° Moulded cable Male 5poles (4p. + P.E.) Black Contacts to solder Brass + Gold flash Knurl round Brass + Nickel plate 0.8 N*m 300V AC / DC (max 8A - PVC/PVC CEI2022 Black 5x1.50mm <sup>2</sup> White; Blue; Yellow	Angled 90° wires d c.600V AC/DC)

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



Panel mount connectors - General features and codification scheme

#### • GENERAL FEATURES PANEL MOUNT CONNECTORS:

Conductor cross section : 1.50mm2(16AWG).

Fixing system :

Type of terminations : Solder wires. Solder PCB.

Brass + Gold flash.

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

Internal core material : PA66.

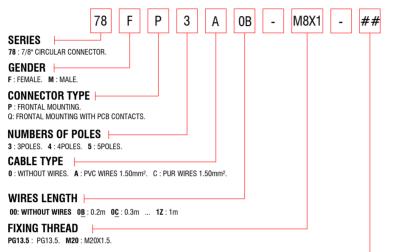
**Operating temperature :** -40°C +90°C.

Flammability resistance : V2 - Standard.

Protection class : IP 67 (assembled).

7/8" coupling nut. Max. screw torque IEC60947-1

7/8" coupling nut torque 0.8 N\*m



#### SOME VARIABILTY

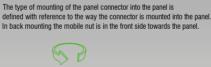
INOX : 7/8" COUPLING NUT IN STAINLESS STEEL (AISI304). IN316 : 7/8" COUPLING NUT IN STAINLESS STEEL (AISI316). CO : CONNECTOR WITH CABLE. CUT : FIXING THREAD WITH ANTIROTATION CUT.

#### **FRONT MOUNTING:**

Q

#### **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 front mounting the mobile nut is in the back side towards the panel. 0-RING nnn PANEL MOBILE NUT(SW25) 26 bbc 0-RING PANEL MOBILE NUT(SW25) Π

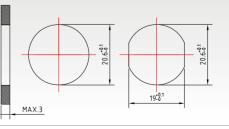


MOBILE NUT(SW25) PANEL

0-RING

#### **PANEL FEATURES:** Suitable for standard connecto PG13.5

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



Panel mount connectors









Technical drawing			
-	0	0	
5w25	500 - 56 UN		9613.5
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	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 <sup>2</sup>
Conductor colours	-	-	Yellow/green; Brown; Blue;
Cable diameter	-	-	-
Cable length	-	-	0.3m
Packaging			
Oh //Dog	Not defined	Not defined	Not defined
Qty/Bag			Hot domiod

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



Panel mount connectors







Technical drawing			
5w25			
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 <sup>2</sup>
Conductor colours	-	-	Black; Blue; Brown; Yellow/green;
Cable diameter	-	-	-
Cable length	•	•	0.3m
Packaging			
Qty/Bag	Not definited	Not defined	Not defined
Other accessories options			

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

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Panel mount connectors









Technical drawing			. 7/8"-16 UN .
Sw25			
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 wir 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
0-ring material	NBR	NBR	NBR
Cable type	-		PVC
No.Conductors / Section	-		5 x 1.50mm <sup>2</sup>
Conductor colours	-		White; Blue; Yellow/green; Brown; Black;
Cable diameter	-		-
Cable length	-	•	0.3m
Packaging			
Qty/Bag	Not defined	Not defined	Not defined
Other accessories options			
erior accesories options			

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



Panel mount connectors

fecturies drawing			
echnical drawing	o■ 1 o■ 2 o■ 3		⊘ 0 1 1 7/8"-16 UN ○ 2 2 0 3 3 m
Sw25	50 50 50 50 50 50 50 50 50 50 50 50 50 5	585 585 585 585 585 585 585 585 585 585	
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 w 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
echnical 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
lousing /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
D-ring material	NBR	NBR	NBR
Cable type	-	-	PVC
lo.Conductors / Section	-	-	3 x 1.50mm <sup>2</sup>
Conductor colours	-	-	Yellow/green; Brown; Blue;
Cable diameter	-	-	-
Cable length	•	•	0.3m
ackaging			
Qty/Bag	Not defined	Not defined	Not defined
ther accessories options			

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

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Panel mount connectors









Technical drawing			
SW25			
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 wit 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 <sup>2</sup>
Conductor colours	-	-	Black; Blue; Brown; Yellow/green;
Cable diameter	-	-	, 2.33, 2.31., 10101/groom,
Cable length	-	-	0.3m
Packaging			
Qty/Bag	Not defined	Not defined	Not defined
Other accessories options			

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



Panel mount connectors







Technical drawing			
SW25		0 1 0 2 0 3 0 4 0 5 7/8"-16 UN 15 2 10 15 2 15 2 15 2 15 15 2 15 15 15 15 15 15 15 15 15 15	
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 wit 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 <sup>2</sup>
Conductor colours	-	-	White; Blue; Yellow/green; Brown; Black;
Cable diameter	-	-	-
Cable length	-	-	0.3m
			White; Blue; Yellow/green; Brown; Black;
Packaging			

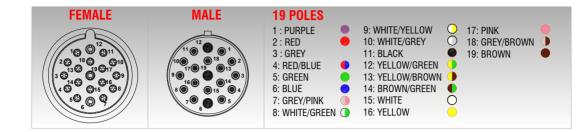
**Notes:** Connectors available with different feautures: See the general features and codification scheme page







Moulded cable connectors / Panel mount connectors -General features and codification scheme



#### • GENERAL FEATURES OF MOULDED / PANEL MOUNT CONNECTORS:

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

Rated Voltage: 150V.

Rated current: Power contacts: 10A. Signal contacts: 8A. Fixing system : M23 coupling nut.

Solder wires.

Type of terminations :

**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 :  $-25^{\circ}C + 90^{\circ}C$ .

23 F D 19 P 1Z - ## SERIES 23 : M23 CIRCULAR CONNECTOR.	#
GENDER F : FEMALE. M : MALE. HOUSING TYPE A : ANGLED 90°. D : STRAIGHT 180°. P: TO PANEL (CONTACTS TO SOLDER). S: TO PANEL (CONTACTS FOR PCB.) NUMBERS OF POLES	
19 : 19POLES. CABLE TYPE 000 : WITHOUT CABLE. P : P-3 + 16-IS.	
CABLE LENGTH	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
SOME VARIABILTY	

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

#### • M23 CONNECTORS CABLE:

Code	Material	Type of cable	Colour	Section	No.core	Cable ø mm ±0.3	Temperature range °C
P-3+16-IS	PUR/PP		Black	3xAWG 19 + 16xAWG 22 (0.75mm <sup>2</sup> ) (0.34mm <sup>2</sup> )	3 + 16	ø10.6mm	-40°C / +80°C

Moulded cable connectors



	Contraction of the	
Technical drawing $\begin{array}{c} \downarrow \downarrow$	O     C	0     1       0     2       3     4       0     5       0     6       0     7       0     6       0     7       0     7       0     7       0     7       0     7       0     7       0     7       0     7       0     7       0     7       0     7       0     7       0     7       0     7       0     7       11     11       0     7       12     11       0     7       13     11       14     14       17     18       0     19
Product description		
Connector type	Circular connector with moulded cable M23	Circular connector with moulded cable
Construction type 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
lumber of contacts	19poles	19poles
louging colour	Black	Black
rechnical data	Contacts to solder wires	Contacts to solder wires
<b>echnical data</b> ype of termination	Contacts to solder wires Brass + Gold flash	Contacts to solder wires Brass + Gold flash
<b>Fechnical data</b> Type of termination Contacts material		
Fechnical data Type of termination Contacts material Coupling nut type	Brass+Gold flash	Brass+Gold flash
Fechnical data Type of termination Contacts material Coupling nut type M23 coupling nut material	Brass + Gold flash Hexagonal (SW25)	Brass+Gold flash Hexagonal (SW25)
Technical data Type of termination Contacts material Coupling nut type A23 coupling nut material A23 coupling nut torque	Brass + Gold flash         Hexagonal (SW25)         Brass + Nickel plated	Brass + Gold flash Hexagonal (SW25) Brass + Nickel plated
Technical data Type of termination Contacts material Coupling nut type A23 coupling nut material A23 coupling nut torque Rated voltage	Brass + Gold flash Hexagonal (SW25) Brass + Nickel plated ## N*m	Brass + Gold flash Hexagonal (SW25) Brass + Nickel plated ## N*m
Technical data Type of termination Contacts material Coupling nut type M23 coupling nut material M23 coupling nut torque Rated voltage Rated current	Brass + Gold flash         Hexagonal (SW25)         Brass + Nickel plated         ## N*m         150V AC/DC         Power contacts: 10A / Signal contacts: 8A         NBR	Brass + Gold flash         Hexagonal (SW25)         Brass + Nickel plated         ## N*m         150V AC/DC         Power contacts: 10A / Signal contacts: 8A         NBR
Technical data         Type of termination         Contacts material         Coupling nut type         M23 coupling nut material         M23 coupling nut torque         Rated voltage         Rated current         D-ring material         Cable type	Brass + Gold flash         Hexagonal (SW25)         Brass + Nickel plated         ## N*m         150V AC/DC         Power contacts: 10A / Signal contacts: 8A         NBR         PUR/TPO ULstyle20549	Brass + Gold flash Hexagonal (SW25) Brass + Nickel plated ## N*m 150V AC/DC Power contacts: 10A / Signal contacts: 8A
Technical data         Type of termination         Contacts material         Coupling nut type         M23 coupling nut material         M23 coupling nut torque         Rated voltage         Rated current         D-ring material         Cable type         Cable jacket colour	Brass + Gold flash         Hexagonal (SW25)         Brass + Nickel plated         ## N*m         150V AC/DC         Power contacts: 10A / Signal contacts: 8A         NBR         PUR/TPO ULstyle20549         Black	Brass + Gold flash         Hexagonal (SW25)         Brass + Nickel plated         ## N*m         150V AC/DC         Power contacts: 10A / Signal contacts: 8A         NBR         PUR/TPO ULstyle20549         Black
Technical data         Type of termination         Contacts material         Coupling nut type         M23 coupling nut material         M23 coupling nut torque         Rated voltage         Rated current         D-ring material         Cable type         Cable jacket colour	Brass + Gold flash         Hexagonal (SW25)         Brass + Nickel plated         ## N*m         150V AC/DC         Power contacts: 10A / Signal contacts: 8A         NBR         PUR/TPO ULstyle20549         Black         19x0.34mm <sup>2</sup> + 3x0.75mm <sup>2</sup>	Brass + Gold flash         Hexagonal (SW25)         Brass + Nickel plated         ## N*m         150V AC/DC         Power contacts: 10A / Signal contacts: 8A         NBR         PUR/TPO ULstyle20549         Black         19x0.34mm²+3x0.75mm²
Technical data         Type of termination         Contacts material         Coupling nut type         M23 coupling nut material         M23 coupling nut torque         Rated voltage         Rated voltage         Coupling material         D-ring material         Cable type         Cable jacket colour         No.Conductors / Section	Brass + Gold flash         Hexagonal (SW25)         Brass + Nickel plated         ## N*m         150V AC/DC         Power contacts: 10A / Signal contacts: 8A         NBR         PUR/TPO ULstyle20549         Black	Brass + Gold flash         Hexagonal (SW25)         Brass + Nickel plated         ## N*m         150V AC/DC         Power contacts: 10A / Signal contacts: 8A         NBR         PUR/TPO ULstyle20549         Black
Fechnical data         Type of termination         Contacts material         Coupling nut type         M23 coupling nut material         M23 coupling nut torque         Rated voltage         Rated voltage         Coupling material         D-ring material         Cable type         Cable jacket colour         Vo.Conductors / Section         Conductor colours	Brass + Gold flash         Hexagonal (SW25)         Brass + Nickel plated         ## N*m         150V AC/DC         Power contacts: 10A / Signal contacts: 8A         NBR         PUR/TPO ULstyle20549         Black         19x0.34mm²+3x0.75mm²         Vt;Rd;Gy;Rd/Bu;Gn;Bu;Gy/Pk;Wh/Gn;Wh/Ye;	Brass + Gold flash         Hexagonal (SW25)         Brass + Nickel plated         ## N*m         150V AC/DC         Power contacts: 10A / Signal contacts: 8A         NBR         PUR/TPO ULstyle20549         Black         19x0.34mm²+3x0.75mm²         Vt;Rd;Gy;Rd/Bu;Gn;Bu;Gy/Pk;Wh/Gn;Wh/Ye;
Technical data         Type of termination         Contacts material         Coupling nut type         M23 coupling nut material         M23 coupling nut torque         Rated voltage         Rated voltage         Rated current         D-ring material         Cable type         Cable jacket colour         Jo. Conductors / Section         Conductor colours         Cable diameter	Brass + Gold flash         Hexagonal (SW25)         Brass + Nickel plated         ## N*m         150V AC/DC         Power contacts: 10A / Signal contacts: 8A         NBR         PUR/TPO ULstyle20549         Black         19x0.34mm² + 3x0.75mm²         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.	Brass + Gold flash         Hexagonal (SW25)         Brass + Nickel plated         ## N*m         150V AC/DC         Power contacts: 10A / Signal contacts: 8A         NBR         PUR/TPO ULstyle20549         Black         19x0.34mm² + 3x0.75mm²         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.
Technical data         Type of termination         Contacts material         Coupling nut type         W23 coupling nut material         W23 coupling nut torque         Rated voltage         Rated voltage         Rated current         D-ring material         Cable type         Cable jacket colour         No.Conductors / Section         Conductor colours         Cable diameter         Cable length	Brass + Gold flash         Hexagonal (SW25)         Brass + Nickel plated         ## N*m         150V AC/DC         Power contacts: 10A / Signal contacts: 8A         NBR         PUR/TPO ULstyle20549         Black         19x0.34mm² + 3x0.75mm²         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.         ø10.6mm (±0.3)	Brass + Gold flash         Hexagonal (SW25)         Brass + Nickel plated         ## N*m         150V AC/DC         Power contacts: 10A / Signal contacts: 8A         NBR         PUR/TPO ULstyle20549         Black         19x0.34mm²+3x0.75mm²         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.         Ø10.6mm (±0.3)
Technical data         Type of termination         Contacts material         Coupling nut type         V23 coupling nut material         M23 coupling nut torque         Rated voltage         Rated voltage         Rated current         D-ring material         Cable type         Cable jacket colour         No. Conductors / Section         Conductor colours         Cable liameter         Cable length         Packaging	Brass + Gold flash         Hexagonal (SW25)         Brass + Nickel plated         ## N*m         150V AC/DC         Power contacts: 10A / Signal contacts: 8A         NBR         PUR/TPO ULstyle20549         Black         19x0.34mm² + 3x0.75mm²         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.         ø10.6mm (±0.3)	Brass + Gold flash         Hexagonal (SW25)         Brass + Nickel plated         ## N*m         150V AC/DC         Power contacts: 10A / Signal contacts: 8A         NBR         PUR/TPO ULstyle20549         Black         19x0.34mm²+3x0.75mm²         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.         Ø10.6mm (±0.3)
Housing colour         Fechnical data         Type of termination         Contacts material         Coupling nut type         M23 coupling nut material         M23 coupling nut torque         Rated voltage         Rated voltage         Cable type         Cable jacket colour         No. Conductors / Section         Conductor colours         Cable lagth         Packaging         Dtype accessories options	Brass + Gold flash         Hexagonal (SW25)         Brass + Nickel plated         ## N*m         150V AC/DC         Power contacts: 10A / Signal contacts: 8A         NBR         PUR/TPO ULstyle20549         Black         19x0.34mm²+3x0.75mm²         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.         ø10.6mm (±0.3)         1m	Brass + Gold flash         Hexagonal (SW25)         Brass + Nickel plated         ## N*m         150V AC/DC         Power contacts: 10A / Signal contacts: 8A         NBR         PUR/TPO ULstyle20549         Black         19x0.34mm²+3x0.75mm²         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.         Ø10.6mm (±0.3)         1m



Panel mount connectors







Technical drawing		M23X1 (#22,75)	
Connector type	Circular connector to panel	Circular connector to panel	Circular connector to panel
Conforms to		-	
Construction type	M23	M23	M23
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	23MP19000-FL	23MS19000-FL	23MP19P0B-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 0.75mm <sup>2</sup> +16 x 0.34mm <sup>2</sup>
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	1	1	
Qty/Bag			
Other accessories options			
See accessories section			
<b>Notes:</b> Connectors available with different fe See the general features and codifica See the cables list section	autures: tion scheme page		

TTP



M8 field attachable

#### • **GENERAL FEATURES**:

**Type of terminations :** Terminal block with screws.

Cable Gland : PG11 : ø CABLE 6.5 - 9.5mm.

Conductor cross section : 0.14(26AWG)...1mm<sup>2</sup>(17AWG).

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

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

J

08 : M8 CIRCULAR CONNECTOR.

T : DISTRIBUCTION BOX FIELD ATTACHABLE.

SERIES J : DISTRIBUCTION BOX.

GENDER |

08

Т

6

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.

В

3

##

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

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

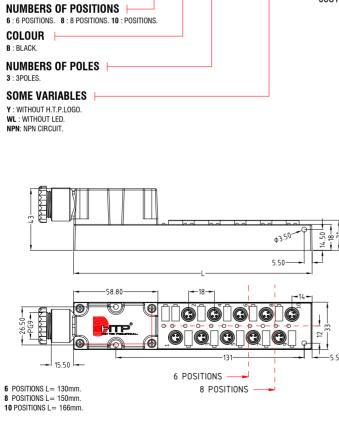
Housing material : PA66 UL94-V2.

Internal core material : PA66 UL94-V2.

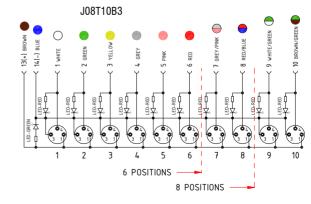
**Coupling nut material :** Brass+Nickel plated. Flammability resistance : UL94-V2 - Standard.

Protection class : IP 67 (assembled).

Operating temperature :  $-40^{\circ}C + 90^{\circ}C$ .



JOBTEB3 JOBTBB3 JOBTBB3



M8 with moulded cable



#### • GENERAL FEATURES:

Type of terminations : Moulded cable.

**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.

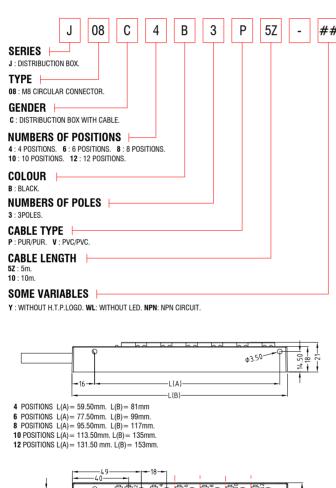
Housing material : PA66 UL94-V2.

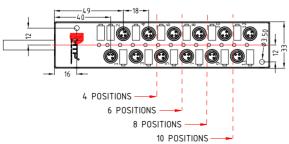
Internal core material : PA66 UL94-V2.

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

Flammability resistance : UL94-V2 - Standard. Protection class : IP 67 (assembled).

**Operating temperature :**  $-40^{\circ}C + 90^{\circ}C$ .







6 POSITIONS

8 POSITIONS

10 POSITIONS



## NEW DISTRIBUTION BOXES M8 distribution boxes with M12 INPUT connector

#### • GENERAL FEATURES:

Type of terminations : M12 connector.

Cable Gland : PG11 : ø CABLE 6.5 - 9.5mm.

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

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

08

J

SIGNAL per OUTLET: Single.

SERIES J : DISTRIBUCTION BOX.

Rated voltage: 10-30V DC.

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

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

Fixing system : M8 coupling nut.

В

3

-

##

4

М

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

M8 Contact material and treatment : Brass + Gold flash.

Housing material : PA66 UL94-V2.

Internal core material : PA66 UL94-V2.

**Coupling nut material :** Brass+Nickel plated. Flammability resistance : UL94-V2 - Standard.

Protection class : IP 67 (assembled).

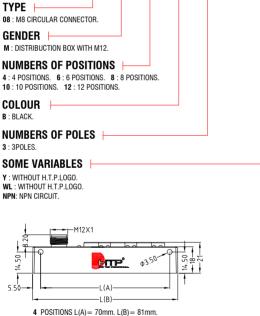
**Operating temperature :**  $-40^{\circ}C + 90^{\circ}C$ .



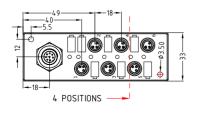
J08M4B3

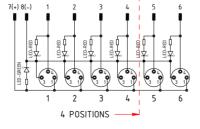


J08M6B3



4 POSITIONS L(A) = 70mm. L(B) = 81mm.
6 POSITIONS L(A) = 88mm. L(B) = 99mm.





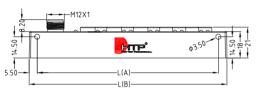
230



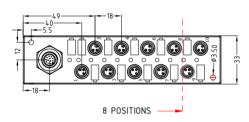




J08M8B3

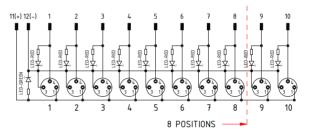


**8** $\ \text{POSITIONS L(A)} = 105.75 \text{mm. L(B)} = 116.75 \text{mm.} \\$ **10** $\ \text{POSITIONS L(A)} = 123.50 \text{mm. L(B)} = 134.90 \text{mm.} \\$ 



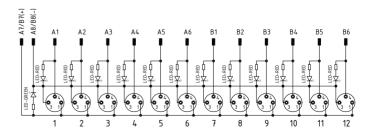


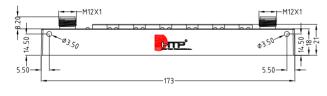
J08M10B3

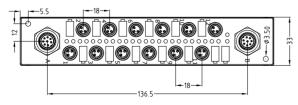




J08M12B3

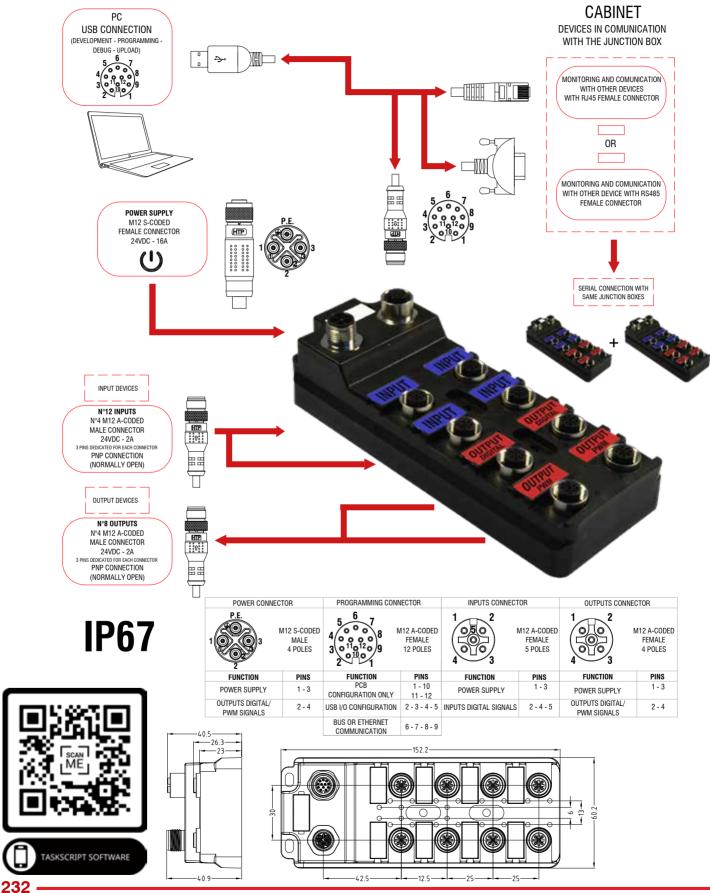








# **IP67 SMART JUNCTION BOX WITH INTEGRATED PLC**



IFU/ SINAL UNULION DUX WITH INCULATED FI	Smart junction box with integ	rated PLC
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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, w	vithout any suddivision - **PWM : Dig	gital scalar signal, from 0%(value=0) to	o 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		

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 lenguage 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

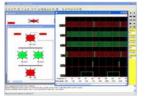
This application can validate and generate the code necessary to create the working file to upload on the Juction box.

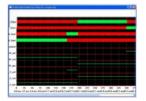
The validation explain clearly, which are the mistakes made during the program creation, making a report file available directly on the application.

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, tasksand 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 easly 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 verifiy the correct operation of the junction box during the work functions



#### **DISTRIBUTION BOXES** IP67 Smart junction box with integrated PLC

**PLC Junction Box KIT features** Part number Quantity Packing 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:

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



S-12FD4B5Z-PLC

PLC Junction Box accessories	Part number	Packing				
RS485 connector part number 12MA12A5ZMB-PLC		pastic bag (complete of wiring diagram sheet)				
INPUT connector part number	A5B0C-C3-C3-C3-PLC	pastic bag (complete of wiring diagram sheet)				
OUTPUT connector part number A4B0C-C3-C3-PLC		pastic bag (complete of wiring diagram sheet)				
Notes: • please contact us to verify the MOQ to place a order						



M12 field attachable



#### • GENERAL FEATURES:

**Type of terminations :** Terminal block with screws.

Cable Gland : PG13.5 : Ø CABLE 7 - 12mm.

Conductor cross section : 0.14(26AWG)...1.5mm<sup>2</sup>(16AWG).

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

Local diagnostic : Supply voltage: Green Led. Status display I/O: Red Led. SIGNAL per OUTLET: Double. Single(upon request).

Rated voltage: 10-30V DC.

Rated current: Current carrying capacity per I/O signal : 2A. Current carrying capacity per slot : 4A.

Total rated current: 10A. Fixing system :

M12 coupling nut.

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

 $\begin{array}{l} \textbf{M12 Contact material and treatment:} \\ \textbf{Brass} \ + \ \textbf{Gold flash.} \end{array}$ 

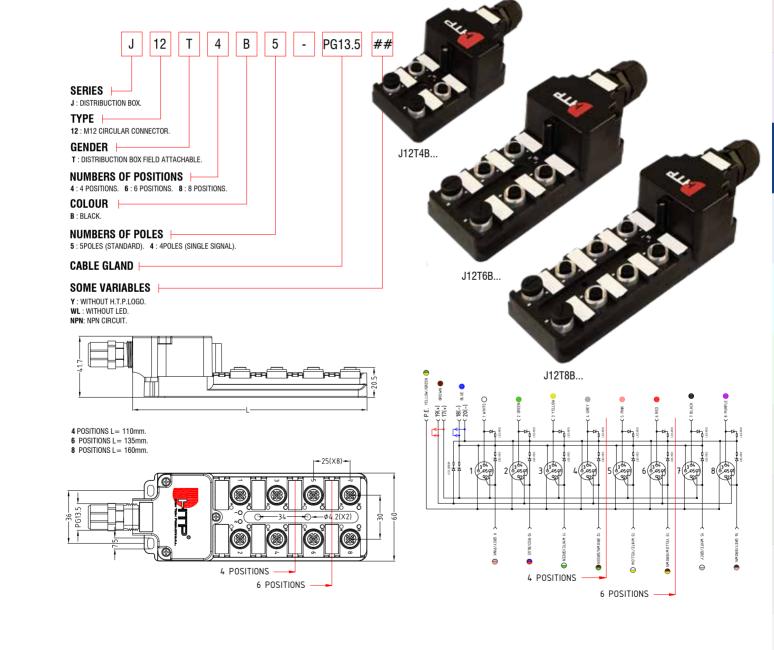
Housing material : PA66 UL94-V2.

Internal core material : PA66 UL94-V2.

**Coupling nut material :** Brass+Nickel plated. Flammability resistance : UL94-V2 - Standard.

Protection class : IP 67 (assembled).

**Operating temperature :**  $-40^{\circ}C + 90^{\circ}C$ .





M12 with moulded cable

#### • GENERAL FEATURES:

Type of terminations : Moulded cable.

**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).

12

J

С

4

В

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.

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5Z

##

M12 Contact material and treatment : Brass + Gold flash.

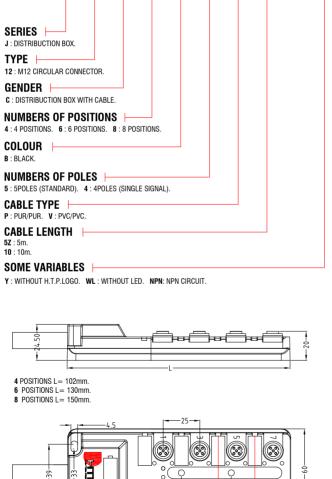
Housing material : PA66 UL94-V2.

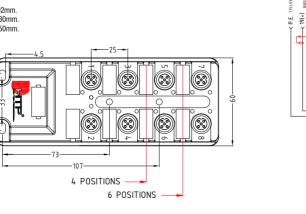
Internal core material : PA66 UL94-V2.

**Coupling nut material :** Brass+Nickel plated. Flammability resistance : UL94-V2 - Standard.

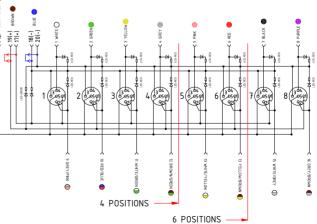
Protection class : IP 67 (assembled).

**Operating temperature :**  $-40^{\circ}C + 90^{\circ}C$ .









45

#### **DISTRIBUTION BOXES** M12 distribution boxes with M23 INPUT connector



#### • GENERAL FEATURES:

Type of terminations : M23 connector.

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

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

SIGNAL per OUTLET: Double. Single(Upon request). Rated voltage: 10-30V DC.

Rated current: Current carrying capacity per I/O signal: 2A. Current carrying capacity per slot: 4A. Total rated current: 12A.

Fixing system : M12 coupling nut.

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

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2(X2)

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

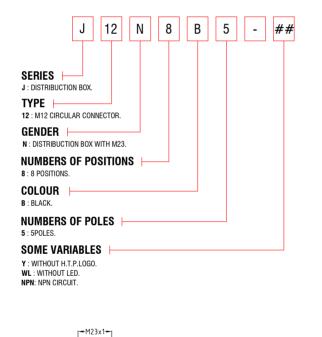
Housing material : PA66 UL94-V2.

Internal core material : PA66 UL94-V2.

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

Flammability resistance : UL94-V2 - Standard. Protection class : IP 67 (assembled).

**Operating temperature :**  $-40^{\circ}C + 90^{\circ}C$ .



-BH

152

-20

-77.50

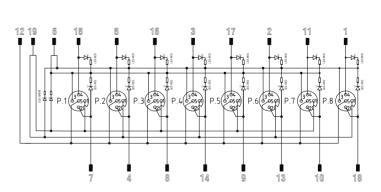
PITP

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1 \$

9.17





237



## Notes:

NOICS.		



Automotive connectors with moulded cable interchangeable with METRIPACK 150series

#### • GENERAL FEATURES OF MOULDED CONNECTORS:

Conductor cross section : 0.34mm<sup>2</sup>(22AWG)...1(18AWG).

Fixing system : Suitable for Metri-pack system copling.

Type of terminations : Crimped wires.

**Contact material and treatment :** Brass + tin plated. **Contact seal material :** Round liquid silicone.

> Housing material : Polypropylene.

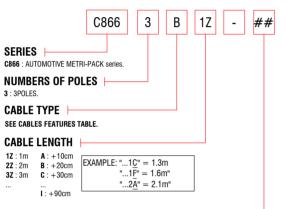
Nominal current : 7,5A.

Max contact current :

15A

Protection class : IP 67.

Operating temperature :  $-25^{\circ}C + 90^{\circ}C$ 





#### SOME VARIABLES

S : Special stripping/peeling-tinng.

#### • 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 <sup>2</sup>	3	ø5mm	-20°C / +80°C
02	PVC/PVC	IEC332-1 H05VVF	Black	0.75mm <sup>2</sup>	3	ø6.7mm	-20°C / +80°C
B*	PVC/PVC	CEI2022	Black	0.34mm <sup>2</sup>	3	ø 4.8mm	-20°C / +80°C
L	PVC/PVC	CEI2022	Grey RAL7032	0.34mm <sup>2</sup>	3	ø 4.8mm	-20°C / +80°C
D*	PUR/PUR		Black	0.34mm <sup>2</sup>	3	ø 4.8mm	-40°C / +80°C
BD*	PUR/PUR	Li-YY11Y	Black	0.75mm <sup>2</sup>	3	ø6.7mm	-40°C / +80°C

\* = Cables with minimum quantity required.

240

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



#### • GENERAL FEATURES OF MOULDED CONNECTORS: Conductor cross section : Contact material and treatment : Internal core material : 0.34(22AWG)...0.75mm<sup>2</sup>(18AWG). Brass + tin plated. PA66. Fixing system : Contact seal material : Protection class : Interchangeable with DT series Round liquid silicone. IP 67. connector system. Housing material : **Operating temperature :** 0 Polypropylene. Type of terminations : -25°C +90°C. Crimping wires. F D 00 0 HDC 2 A2 1Z HDC Μ D 2 ## \_ \_ SERIES | HDC : AUTOMOTIVE CONNECTORS. GENDER – F : (DT06) FEMALE. M : (DT04) MALE. CONNECTOR TYPE D : STRAIGHT 180 NUMBERS OF POLES 2: 2POLES. 3: 3POLES. 4: 4POLES. CIRCUIT TYPE 00: WITHOUT ELECTRONIC. LO: BIPOLAR RED LED. DL: DIODE+RED LED. VL: VARISTOR + BIPOLAR RED LED. VOLTAGE |- $0:250V\text{--}300V\;, \quad 1:24V, \quad 2:115V, \quad 3:230V, \quad 4:12V, \quad 5:48\;V,$ CABLE TYPE SEE CABLES FEATURES TABLE. CABLE LENGTH 1Z: 1m A: +10cm 2Z: 2m B: +20cm EXAMPLE: "...1C" = 1.3m $....1\underline{F} = 1.6m''$ "...2 $\underline{A}$ " = 2.1m" 3Z : 3m C:+30cm I:+90cm EXTENSION | SPECIFY OTHER CONNECTOR'S SIDE. SOME VARIABLES ${\boldsymbol{\mathsf{S}}}$ : Special stripping/peeling-tinng.

#### • 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 <sup>2</sup>	2	ø 6.5mm	-40°C / +80°C	Brown;Blue
BD	PUR/PUR	Li-YY11Y	Black	0.75mm <sup>2</sup>	3	ø 6.7mm	-40°C / +80°C	Brown;Blue;Black
BE	PUR/PUR	Li-YY11Y	Black	0.75mm <sup>2</sup>	4	ø7 mm	-40°C / +80°C	Brown;Blue;Black;White

\* = Cables with minimum quantity required.



Automotive connectors interchangeable with DT series with moulded cable



Technical drawing	• • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • •	$ \begin{array}{c} \circ & \circ & \\ \circ & & \\ \end{array} $	• • • · · · · C 1
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 <sup>2</sup>	3x0.75mm <sup>2</sup>	4x0.75mm <sup>2</sup>	2x0.75mm <sup>2</sup>
Conductor colours	Brown; Blue	Brown; Blue ; Black	Brown; White; Blue ; Black	Brown; Blue
Cable diameter	ø6.5mm (±0.3)	ø6.7mm (±0.3)	ø7mm (±0.3)	ø6.5mm (±0.3)
Cable length	1m	1m	1m	1m
Packaging				
Qty/Bag	1 pc / bag	1 pc / bag	1 pc / bag	1 pc / bag
Other accessories options				
See accessories section				

See the general features and codification scheme page See the cables list section

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 <sup>2</sup>	2x0.75mm <sup>2</sup>	
Conductor colours	Brown; Blue	Brown; Blue	
Cable diameter	ø6.5mm (±0.3)	ø6.5mm (±0.3)	
Cable length	1m	1m	
Packaging			
Qty/Bag	1 pc / bag	1 pc / bag	
Other accessories options	1 . 3		
See accessories section			
Notes:			
Connectors available with differe See the general features and coo See the cables list section			



Automotive connectors interchangeable with DT series with moulded cable



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 <sup>2</sup>	3x0.75mm <sup>2</sup>	4x0.75mm <sup>2</sup>	2x0.75mm <sup>2</sup>
Conductor colours	Brown; Blue	Brown; Blue ; Black	Brown; White; Blue ; Black	Brown; Blue
Cable diameter	ø6.5mm (±0.3)	ø6.7mm (±0.3)	ø7mm (±0.3)	ø6.5mm (±0.3)
Cable length	1m	1m	1m	1m
Packaging				
Qty/Bag	1 pc / bag	1 pc / bag	1 pc / bag	1 pc / bag
Other accessories options				
See accessories section				
Notes: Connectors available with diffe	erent feautures:			

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

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 <sup>2</sup>	2x0.75mm <sup>2</sup>	
Conductor colours	Brown; Blue	Brown; Blue	
Cable diameter	ø6.5mm (±0.3)	ø6.5mm (±0.3)	
Cable length	1m	1m	
Packaging		<u> </u>	
Qty/Bag	1 pc / bag	1 pc / bag	
Other accessories options			
See accessories section			
Notes: Connectors available with differ See the general features and co See the cables list section	rent feautures: odification scheme page		



Automotive connectors interchangeable with DT series



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		I		
Type of termination	Contacts to crimping wires			
Contacts material	Brass+Gold flash	Brass+Gold flash	Brass+Gold flash	Brass+Gold flash
M12 coupling nut material	Brass+Nickel plated	Brass+Nickel plated	Brass+Nickel plated	Brass+Nickel plated
Internalcores material	PA	PA	PA	PA
Connector body material	Polypropylene	Polypropylene	Polypropylene	Polypropylene
Rated voltage	48 V AC/DC	48 V AC/DC	24 V AC/DC	24 V DC
Gasket material	Silicone	Silicone	Silicone	Silicone
M12 o-ring material	NBR	NBR	NBR	NBR
Circuit type	-	-	Bipolar Led	Led + Diode(1A)
Led colour	-	-	Red	Red
Rated current	4A	4A	1A	1A
Packaging				
Qty/Bag	1 pc / bag			
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.

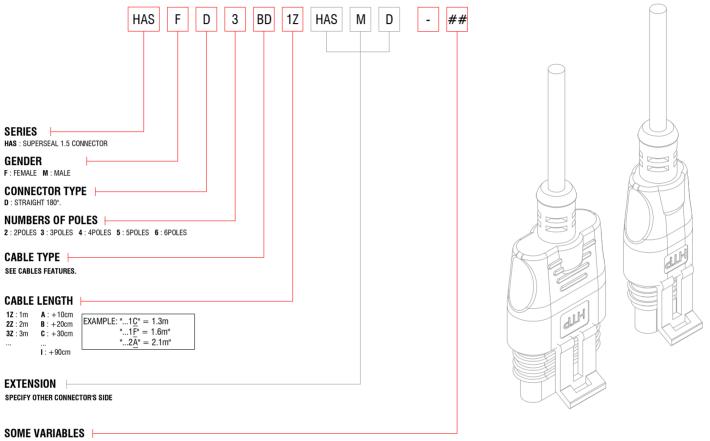
Automotive connectors interchangeable with DT series with moulded cable







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



 $\boldsymbol{S}: \text{SPECIAL STRIPPING/PEELING-TINNING.} \quad \boldsymbol{Y}: \text{WITHOUT H.T.P.LOGO.}$ 

#### • 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 <sup>2</sup>	2	ø 6.5mm	-40°C / +80°C	Brown;Blue
BD	PUR/PUR	Li-YY11Y	Black	0.75mm <sup>2</sup>	3	ø 6.7mm	-40°C/+80°C	Brown;Blue;Black
BE	PUR/PUR	Li-YY11Y	Black	0.75mm <sup>2</sup>	4	ø7mm	-40°C/+80°C	Brown;Blue;Black;White
BF	PUR/PUR	Li-YY11Y	Black	0.75mm <sup>2</sup>	5	ø 7.5 mm	-40°C/+80°C	Brown;Blue;Black;White;Grey
BG*	PUR/PUR	Li-YY11Y	Black	0.75mm <sup>2</sup>	6	ø 8 mm	-40°C / +80°C	Green; Brown; White; Pink; Grey; Yellow

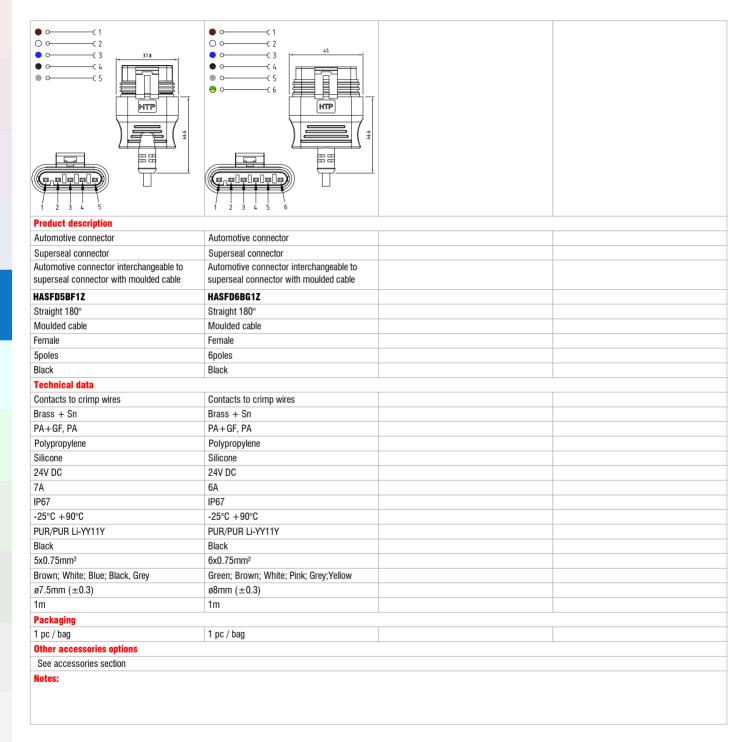
\* = Cables with minimum quantity required.



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	1 2	1 2 <sup>3</sup>	
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
Fechnical data			
Type of termination	Contacts to crimp wires	Contacts to crimp wires	Contacts to crimp wires
Contacts material	Brass + Sn	Brass + Sn	Brass + Sn
nternalcore 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 No.Conductors / Section	Black 2x0.75mm <sup>2</sup>	Black 3x0.75mm <sup>2</sup>	Black 4x0.75mm <sup>2</sup>
Conductors / Section	Brown; Blue	Brown; Blue; Black	Brown; White; Blue; Black
Cable diameter	ø6.5mm (±0.3)		$\phi$ g7mm (±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			





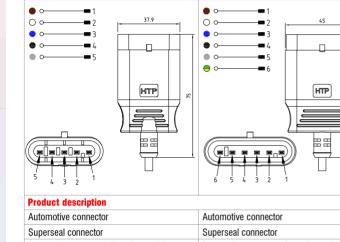




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roduct description			
connector type	Automotive connector	Automotive connector	Automotive connector
iterchangeable to	Superseal connector	Superseal connector	Superseal connector
Description	Automotive connector interchangeable to	Automotive connector interchangeable to	Automotive connector interchangeable to
	superseal connector with moulded cable	superseal connector with moulded cable	superseal connector with moulded cable
Part number	HASMD2BA1Z	HASMD3BD1Z	HASMD4BE1Z
lousing type	Straight 180°	Straight 180°	Straight 180°
Cable gland	Moulded cable	Moulded cable	Moulded cable
Contacts type	Male	Male	Male
lumber of contacts	2poles	3poles	4poles
lousing colour	Black	Black	Black
echnical data			
ype of termination	Contacts to crimp wires	Contacts to crimp wires	Contacts to crimp wires
ontacts material	Brass + Sn	Brass + Sn	Brass + Sn
nternalcore material	PA+GF, PA	PA+GF, PA	PA+GF, PA
connector body material	Polypropylene	Polypropylene	Polypropylene
eal material	Silicone	Silicone	Silicone
lated 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
able type	PUR/PUR Li-YY11Y	PUR/PUR Li-YY11Y	PUR/PUR Li-YY11Y
able jacket colour	Black	Black	Black
lo.Conductors / Section	2x0.75mm <sup>2</sup>	3x0.75mm <sup>2</sup>	4x0.75mm <sup>2</sup>
onductor colours	Brown; Blue	Brown; Blue; Black	Brown; White; Blue; Black
able diameter	ø6.5mm (±0.3)	Ø6.7mm (±0.3)	ø7mm (±0.3) 1m
able length	1m	1m	1111
<mark>ackaging</mark> ty/Bag	1 pc / bag	1 pc / bag	1 pc / bag
ther accessories options	1 pc / bay	i po / bay	1 po / bay
auuuaauiiga upuulia			
ee accessories section			







5       1 4 3 2	6 5 4 3 2 1		
Product description			
Automotive connector	Automotive connector		
Superseal connector	Superseal connector		
Automotive connector interchangeable to	Automotive connector interchangeable to		
superseal connector with moulded cable	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		
5x0.75mm <sup>2</sup>	6x0.75mm <sup>2</sup>		
Brown; White; Blue; Black, Grey	Green; Brown; White; Pink; Grey; Yellow		
ø7.5mm (±0.3)	ø8mm (±0.3)		
1m	1m		
Packaging			
1 pc / bag	1 pc / bag		
Other accessories options			
See accessories section			
Notes:			

# **AUTOMOTIVE / METRIPACK CONNECTORS** Superseal 1.5mm connectors with moulded cable



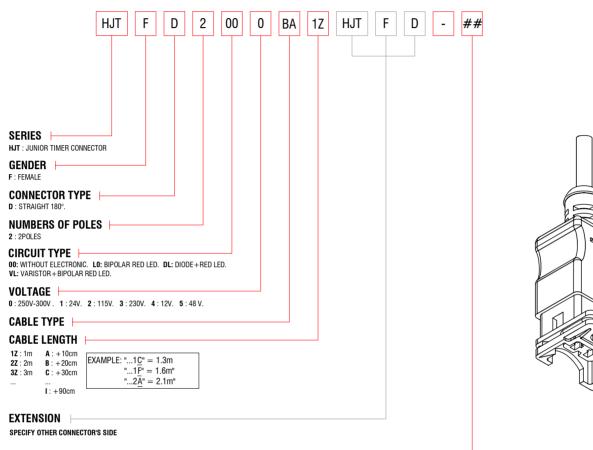
Technical drawing	1 > II 4 2 > II 3	1 >		1 ) 1 2 ) 2 2 2 2 3 ) 2 3 ) 3 3 4 ) 3 7.8
Product description				
Connector type	Automotive-M12 adapter	Automotive-M12 adapter	Automotive-M12 adapter	Automotive-M12 adapter
Interchangeable to	Superseal connector	Superseal connector	Superseal connector	Superseal 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	HASFD2000-12MD	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 material	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			1	
Qty/Bag	1 pc / bag			
Other accessories options				
See accessories section				
Notes: Connectors available with differen	t feautures:			

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



General features and codification scheme Junior Timer connectors

### • GENERAL FEATURES OF MOULDED CONNECTORS:



#### SOME VARIABLES |-

 $\boldsymbol{S}: \texttt{SPECIAL STRIPPING/PEELING-TINNING.} \quad \boldsymbol{Y}: \texttt{WITHOUT H.T.P.LOGO}.$ 

#### • SUPERSEAL CONNECTORS CABLES:

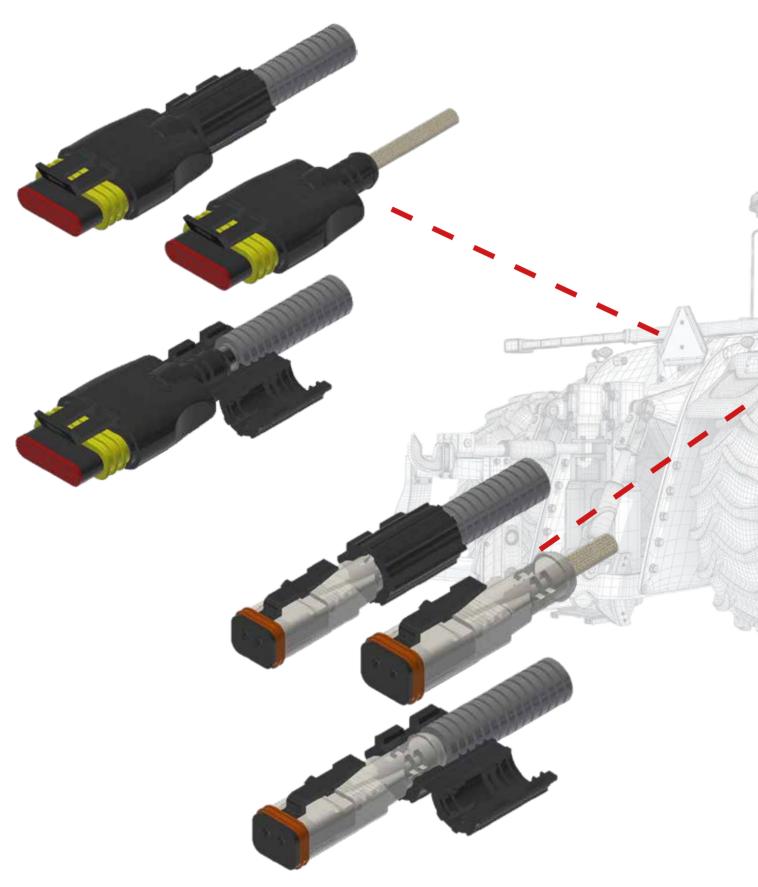
Code	Material	Type of cable	Colour	Section	No.core	Cable ø mm ±0.3	Temperature range °C	Wires colouring
A2	PVC/PVC	IEC332-1 H05VVF	Black	0.75mm <sup>2</sup>	2	ø 6mm	-20°C / +80°C	Brown;Blue
A9	PUR/PUR		Black	0.75mm <sup>2</sup>	2	ø 6mm	-40°C / +80°C	Brown;Blue
BA	PUR/PUR	Li-YY11Y	Black	0.75mm <sup>2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

Junior Timer connectors

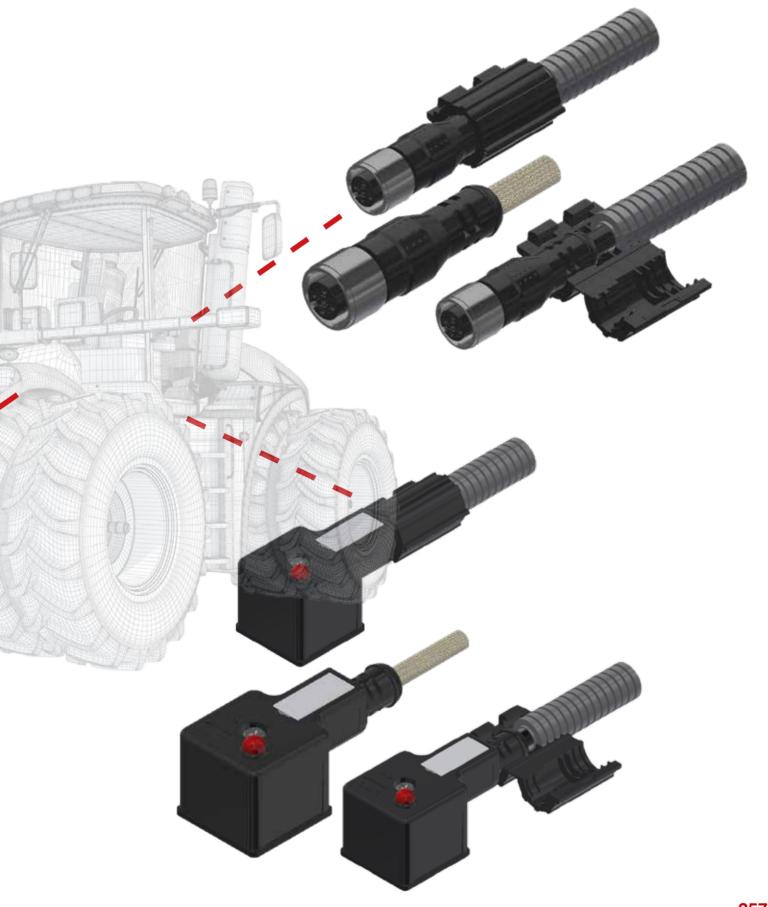


Technical drawing				
reennear urawnig		( 1 ) ( 1 )		
Product description				
Connector type	Automotive/Valve connector	Automotive/Valve connector	Automotive/Valve connector	Automotive/Valve connector
Interchangeable to	Junior Timer	Junior Timer	Junior Timer	Junior Timer
Description	Automotive connector 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 mould 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	1	· · ·	I	
Type of termination	Contacts to crimping wires	Contacts to crimping wires	Contacts to crimping wires	Contacts to crimping wires
Contacts material	Brass+Gold flash	Brass+Gold flash	Brass+Gold flash	Brass+Gold flash
Internalcore material	PA66+GF; Spring:Steel	PA66+GF; Spring:Steel	PA66+GF; Spring:Steel	PA66+GF; Spring:Steel
Connector body material	Polypropylene	Polypropylene	Polypropylene	Polypropylene
Rated voltage	1-230 V AC/DC	24 V AC/DC	24 V DC	24 V AC/DC
Circuit type	-	Bipolar Led	Led + Diode(1A)	Led + Varistor
Led colour	-	Red	Red	Red
Rated current	4A	1A	1A	1A
Protection class	IP65	IP65	IP65	IP65
Cable type	PUR/PUR Li-YY11Y	PUR/PUR Li-YY11Y	PUR/PUR Li-YY11Y	PUR/PUR Li-YY11Y
Cable jacket colour	Black	Black	Black	Black
No.Conductors / Section	2x0.75mm <sup>2</sup>	2x0.75mm <sup>2</sup>	2x0.75mm <sup>2</sup>	2x0.75mm <sup>2</sup>
Conductor colours	Brown; Blue	Brown; Blue	Brown; Blue	Brown; Blue
	ø6.5mm (±0.3)	ø6.5mm (±0.3)	ø6.5mm (±0.3)	ø6.5mm (±0.3)
Cable diameter	1m	1m	1m	1m
Cable diameter Cable length				
Cable length	1 pc / bag	1 pc / bag	1 pc / bag	1 pc / bag
Cable length <b>Packaging</b>		1 pc / bag	1 pc / bag	1 pc / bag











Notes

## Notes:






Valve Splitter connectors - General features and codification scheme

## • GENERAL FEATURES:

Conductor cross section :  $0.34(22AWG) \dots 1.50mm^2(16AWG).$ 

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)

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			CG	D	Ν	0	2	00	(	)	С	02	2	-	ŧ	##	-	##	
SERIES CG: EN175301-803 CG1 : EN175301-80 CM1 : INDUSTRIAL f CM2 : EN175301-80 CP1 : EN175301-80 CP2 : MICRO INDUS	3 form À (18n orm B (11mm 3 form B (10n 3 form C (8m	nm). 1). mm). m).	ole exit.							[				] [	] [_				
<b>EXITS</b> D: 2 EXITS. 3: 3 E 12: 12 EXITS.	KITS. <b>4</b> :4 E	XITS. <b>5</b> : 5 EXI	TS																
COLOUR	RD)																		
CABLE EXIT																			
0 : MOULDED CABLI																			
POLES No. 2 : 2POLES + EART		S + EARTH.																	
CIRCUIT TYP																			
SEE CIRCUITS PAGE																			
VOLTAGE   0:250V/300V. 1	: 24V. <b>2</b> : 11	5V. <b>3</b> : 230V.	<b>4</b> : 12V.	5 : 48V.															
EARTH POSIT																			
A:H.6. B:H.12.			. <b>E</b> : H.9.	F : DOUE	BLE H.3-9.														
2 EXITS:			Black 0.75m	m² 4	ø7mm -2	:0°C / +80°C													
			Black 0.75m			:0°C / +80°C	-												
	IN PVC/PVC		Black 0.34m			:0°C / +80°C	_												
4 0 0 EXIIO.	PUR/TPO		n 0.34m	m² 8		5°C / +80°C	_												
9-10-11-12-13-14-1		8P PUR/TP	0.7311		. 0.34mr	m² 16		-25°C/+	0010										
3-10-11-12-10-14-1	U-TU EXITU.	or PUR/IP	U ULSIVIE 2	0049 Bia	ck 0.75mr	m² 3 '	810.0000	-20'6 / +	00.0										
CABLE LENG	ГН																		
1:1m A:+10 2:2m B:+20		PLE: "CB2 <u>2</u>																	
<b>3</b> :3m <b>C</b> :+30	cm	"CB2 <u>2F</u> "CB22I"																	
I:+900		_		]															
NO DIGIT: 200mm.	390: 390mn	1 1000:10	Juumm. E	10.															

#### SOME VARIABLES

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

M8-M12 Splitter connectors - General features and codification scheme



## • GENERAL FEATURES:

Conductor cross section : M8: 0.14(26AWG) ... 0.5mm<sup>2</sup>(20AWG). M12: 0.25(24AWG) ... 0.75mm<sup>2</sup>(19AWG).

Fixing system : M8 / M12 coupling nut.

Max. screw torque IEC60947-1 M8 coupling nut torque 0.4N\*m. M12 coupling nut torque 0.6N\*m.

Type of terminations : Crimped wires/to solder.

EXITS

**\$12**: 12 EXITS SERIES | - : FREE CABLE

2 EXITS:

3 EXITS:

4-5-6 EXITS

9-10-11-12-13-

14-15-16 EXITS:

7-8 EXITS

3Z : 3m

SERIES

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°.

M: 7/8" MALE 180°

ł - : FREE CABLE.

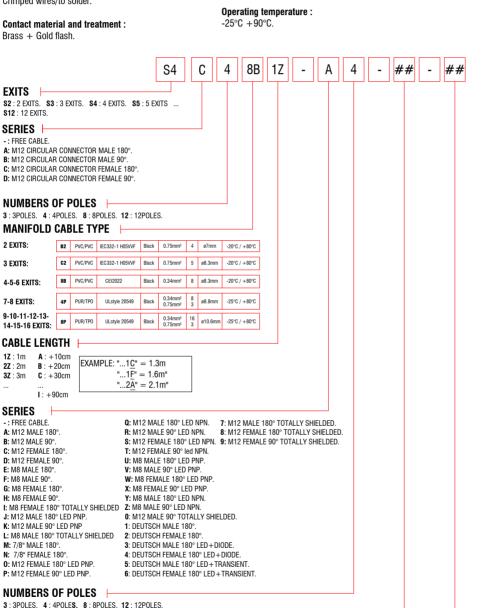
Contact material and treatment : Brass + Gold flash.

Housing material : Polypropylene.

Internal core material : PA66-V2

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

Protection class : IP67.



#### 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.



Valve in line connectors - General features and codification scheme

## • GENERAL FEATURES:

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

Fixing system : Central fixing screw.

Max. screw torque IEC60947-1 (Central fixing screw) : CG1series: Max. 0.5 N \* m.

Type of terminations : To solder.

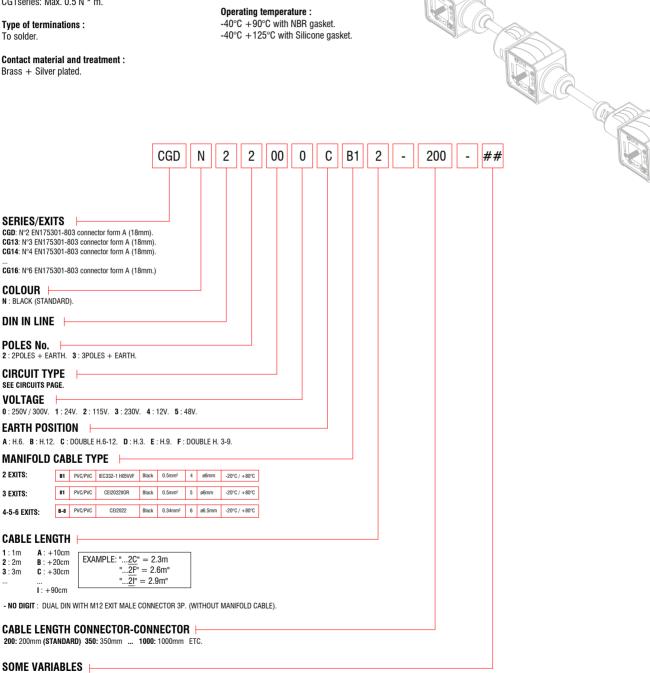
Brass + Silver plated.

Housing material : Polypropylene.

Internal core material : PA66-V2

Protection class : IP67

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



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.

2 EXITS:

3 EXITS:

**1**:1m

2:2m 3:3m

Valve chain connectors - General features and codification scheme



## • GENERAL FEATURES:

Conductor cross section :  $0.34(22AWG) \dots 1.50mm^2(16AWG).$ 

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.

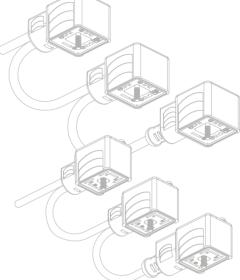
#### **Contact material and treatment :** Brass + Silver plated.

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.
BI         PVC/PVC         EC332-1 H05VVF         Black         0.5mm²         4         e6mm         -20°C / +80°C
Bit Projekt         Bit Docket (norm)         Bit Docket (norm) <th< td=""></th<>
4-5-6 EXITS: 8-8 PVC/PVC CEI2022 Black 0.34mm <sup>2</sup> 6 ø6.5mm -20°C / +80°C
CABLE LENGTH         1: 1m       A: + 10cm         2: 2m       B: + 20cm         3: 3m       C: + 30cm                 I: +90cm
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.



M12 Y SPLITTER with moulded cable - General features and codification scheme

#### • 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.

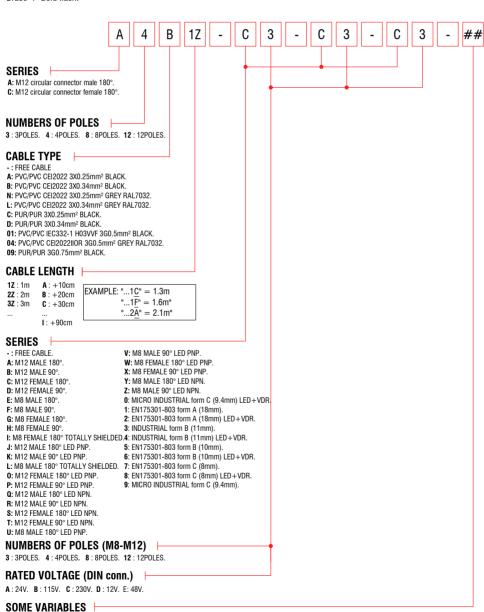
**M12 Y - Internal core material :** PA66-V2.

M12 Y - Coupling nut material : Brass + Nickel plated. Stainless steel AISI304(upon request). Circuit type :

Parallel. Shunting.

Protection class : IP67.

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





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





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



## SPECIAL CONNECTORS Customized products







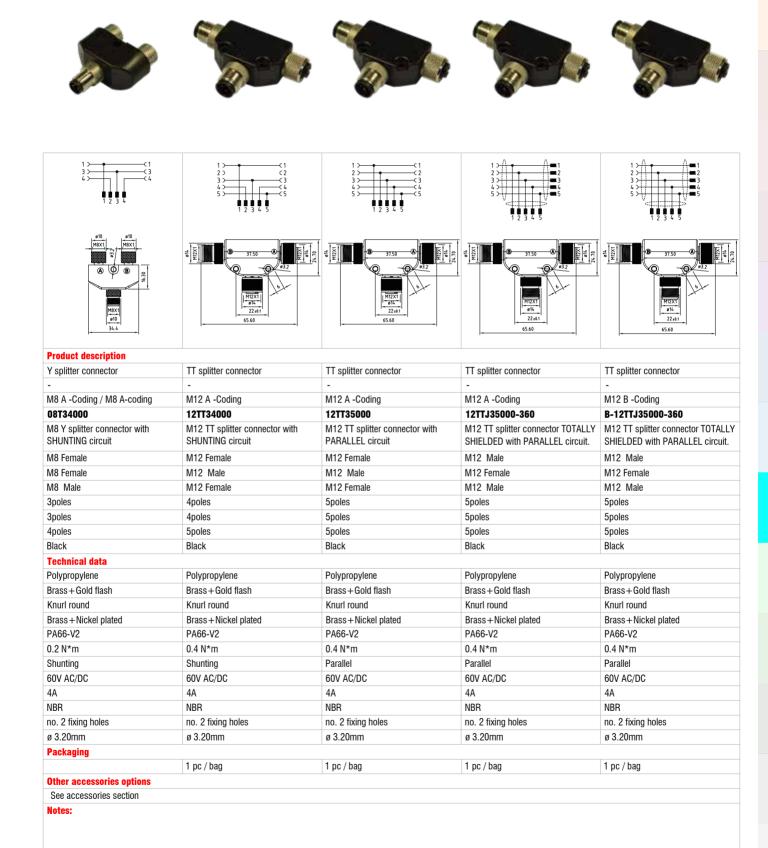




Technical drawing		$\begin{array}{c} 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 5 \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 5 \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 5 \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 5 \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 5 \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 1 \\ 2 \\ 1 \\ 2 \\ 1 \\ 2 \\ 1 \\ 2 \\ 1 \\ 2 \\ 1 \\ 2 \\ 1 \\ 2 \\ 1 \\ 2 \\ 1 \\ 2 \\ 1 \\ 2 \\ 1 \\ 2 \\ 1 \\ 2 \\ 1 \\ 1$	$\begin{array}{c} 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 1 \\ 2 \\ 1 \\ 2 \\ 1 \\ 2 \\ 1 \\ 2 \\ 1 \\ 2 \\ 1 \\ 2 \\ 1 \\ 2 \\ 1 \\ 2 \\ 1 \\ 2 \\ 2$		
		8 14.0 MI2x1 (MI2x1) (MI2x1		8 14.0 1 112x1 1 11	
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 tore	que	0.4 N*m	0.4 N*m	0.4 N*m	M12: 0.4 N*m / M8: 0.2N*m
Circuit type		Shunting	Parallel	3 LED PNP	Shunting
Rated voltage		60V AC/DC	60V AC/DC	24V AC/DC	60V AC/DC
Rated current		4A	4A	4A	3A
O-ring material		NBR	NBR	NBR	NBR
Fixing type		no. 1 fixing hole	no. 1 fixing hole	no. 1 fixing hole	no. 1 fixing hole
Fixing hole diameter		ø 3.20mm	ø 3.20mm	ø 3.20mm	ø 3.20mm
Packaging					
Qty/Bag		1 pc / bag	1 pc / bag	1 pc / bag	1 pc / bag
Other accessories o	ptions		I		
	ion				

I-IT	P®	<b>(</b>
HIGH TECH PRO	DUCTS S.F	₹.∟.

M8-M12 Y SPLITTER connectors





M8-M12 T SPLITTER connectors



Technical drawing						
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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 toro	lue	0.8 N*m	0.8 N*m	0.8 N*m	7/8":0.8 N*m ; M12: 0.4n*m	
Circuit type		Parallel	Parallel	Parallel	Parallel	
Rated voltage		250V AC / DC	250V AC / DC	250V AC / DC	30V AC / 36V DC	
Rated current		12A	9A	9A	4A	
O-ring material		-	-	-	NBR	
Fixing type		no. 2 fixing holes	no. 2 fixing holes	no. 2 fixing holes	no. 2 fixing holes	
Fixing hole diameter		ø 3.20mm	ø 3.20mm	ø 3.20mm	ø 3.20mm	
Packaging						
Qty/Bag		1 pc / bag	1 pc / bag	1 pc / bag	1 pc / bag	
Other accessories o	ptions					
See accessories sect	ion					



M8-M12 Adapter connectors



Technical drawing		1 ■(1 4 ■(4 3 ■	$1 = \underbrace{\begin{array}{c} 1 \\ 2 = \underbrace{\begin{array}{c} 2 \\ 3 \end{array}}_{4 = \underbrace{\begin{array}{c} 2 \\ 3 \end{array}}_{4 = \underbrace{\begin{array}{c} 2 \\ 4 \end{array}}_{4 = \underbrace{\begin{array}{c} 2 \end{array}}_{4 E \\}_{4 = \underbrace{\begin{array}{c} 2 \end{array}}_{4 } \underbrace{\begin{array}{c} 2 \end{array}}_{4 E \end{array}}_{4 } \underbrace{\begin{array}{c} 2 \end{array}}_{4 } \underbrace{\end{array}}_{4 } \underbrace{\begin{array}{c} 2 \end{array}}_{4 } \underbrace{\begin{array}{c} 2 \end{array}}_{4 } \underbrace{\end{array}}_{4 } \underbrace{\begin{array}{c} 2 \end{array}}_{4 } \underbrace{\end{array}}_{4 } \underbrace{\begin{array}{c} 2 \end{array}}_{4 } \underbrace{\end{array}}_{4 } \underbrace{\end{array}}_{4 } \underbrace{\end{array}}_{4 } \underbrace{\begin{array}{c} 2 \end{array}}_{$	$ \begin{array}{c} 1 \\ 2 \\ 3 \\ 3 \\ 4 \\ 5 \\ \end{array} $ (1) (2) (3) (3) (3) (3) (3) (4) (5) (5) (5) (5) (5) (5) (5) (5) (5) (5	1	
					37.50	
Product description	1					
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		1 /D	1 /D	1 /D	1	
Qty/Bag		1pc/Bag	1pc/Bag	1pc/Bag	1pc/Bag	
Other accessories of						
See accessories sect	ion					

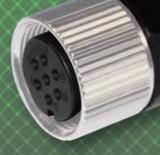


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echnical drawing	C1	■ 1		<b>— — —</b> 1
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45,50	C 3	<b>3</b>		
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	Tc 5	↓ ···· ↓ ····· <b>i</b> 5		
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49,50	1 2	2 1	1 2	2 1
	5	5	5	5
				l XX
	4 3	3 4	4 3	3 4
roduct description		1	T	1
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 M 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
echnical 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
V12 coupling nut material	Brass+Nickel plated	Brass+Nickel plated	Brass+Nickel plated	Brass+Nickel plated
V12 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
D-ring material	NBR	-	NBR	-
Packaging				
Qty/Bag	100 pcs / bag	100 pcs / bag	100 pcs / bag	100 pcs / bag
Other accessories options		1,5		
See accessories section				











IEC 61984 connectors - Field attachable connectors -General features and codification scheme

#### • GENERAL FEATURES FIELD ATTACHABLE CONNECTORS:

Cable Gland : PG7 : ø CABLE 4 - 6mm

 $\begin{array}{l} \mbox{Conductor cross section:} \\ 0.14(26AWG)...0.50mm^2(20AWG). \end{array}$ 

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

Type of terminations : Solder wires. Housing material : PA66 UL94-V2

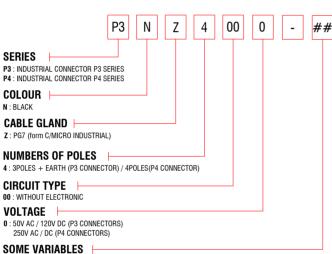
> Internal core material : PA66 UL94-V2

Protection class : IP 65 (assembled).

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

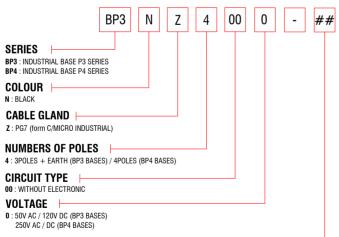
 $\begin{array}{l} \mbox{Contact material and treatment:} \\ \mbox{Brass} \ + \ \mbox{tin plated.} \end{array}$ 

Nominal current : 10A



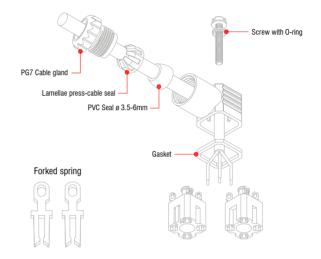
Y : WITHOUT ELECTRONIC

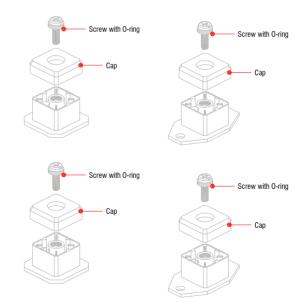
### • GENERAL FEATURES BASIS:



SOME VARIABLES

ASS : BASE ASSEMBLED WITH CAP





IEC 61984 connectors - Field attachable connectors





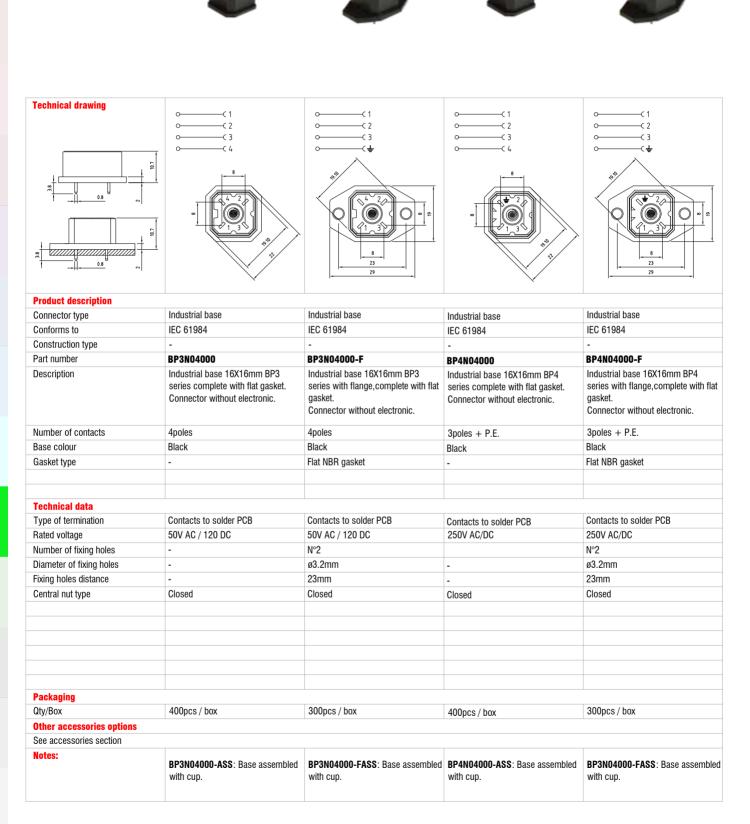




Technical drawing	o(1	o(1	
Product description			
Connector type	Industrial connectors	Industrial connectors	Accessories
Conforms to	IEC 61984	IEC 61984	-
Construction type	-	-	-
Part number	P3NZ4000	P4NZ4000	BP3NZ4000-CAP
Description	Industrial connector 16X16mm P3 series complete with gasket and fixing 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	22.5mm	22.5mm	
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 / 120 DC	250V AC/DC	
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	Johos / nay	oopeo/ hay	Johns / nañ
See accessories section			
Notes:			
NULES.			



IEC 61984 connectors - 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.

F

С

7

15

Cable Gland :

PG11 : ø cable 6-10mm(field attachable).

Conductor cross section : 0.5mm<sup>2</sup>(20AWG)...1.5mm<sup>2</sup>(16AWG).

Type of terminations : Solder wires.

SERIES

GENDER F: FEMALE. M: MALE.

HOUSING TYPE c : STRAIGHT PLASTIC HOUSING 180°. P : PANEL MOUNT, FRONTAL MOUNT. NUMBERS OF POLES 7 : 6POLES + EARTH.

000 : WITHOUT CABLE.

15MP7000

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

15 : EN175000 CIRCULAR CONNECTOR.

CABLE TYPE AND LENGTH

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 :



000

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

Rated voltage:  $\sim 60V / \sim 75V.$ 

Rated insulation voltage:  $\sim 150 \text{V}.$ 

**FEMALE** 

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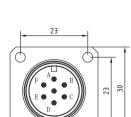
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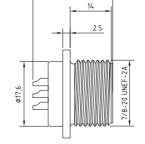
**Nominal current :** 6A (0.5mm<sup>2</sup>). 9A (1.5mm<sup>2</sup>).



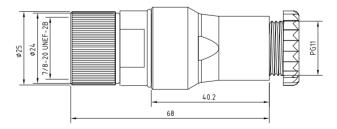
MALE

D





• 15FC7000





Notes:



# **INDUSTRIAL LIGHTING**



## **INDUSTRIAL LIGHTING** IP67 / IP54 LED LIGHT TUBE



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





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





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



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

54

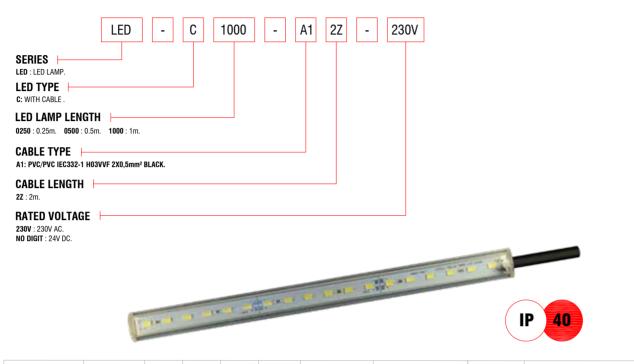
Code	Material	Lighting Length	Rated Voltage	Rated Power	Luminous flux	Lighting colour	Protection class IP	Temperature range °C	No. of FIXING CLIPS
LED-G0250-12MD	Borosilicate Glass	0.25m	24V DC	3,9 W	450 Lm	4500K Pure White	IP67	-25°C / +60°C	No.2
LED-G0500-12MD	Borosilicate Glass	0.5m	24V DC	7,7 W	900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



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 possibile 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:

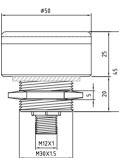
**Lighting material :** PC Windows. Alluminium housing.

Fixing system : M30x1.5 Fixing nut.

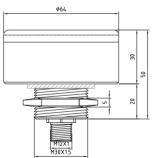
Type of terminations : M12 Male plug.

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

#### LED-50-12MD



LED-64-12MD



• ACCESSORIES:



#### 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 : 12-30 V DC ø 64mm : 16-36 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-64-12MD

Code	Description	Cable lenght	PACKAGING
LED-PS-EU-12FD	Feeder EUROPEAN connection + M12 female connetor	1.8m	1piece / box
LED-PS-USA-12FD	Feeder AMERICAN connection + M12 female connetor	1.8m	1piece / box



## Notes:

10165.		



# SENSORS (MAGNETIC PROXIMITY SWITCHES)



## SENSORS (MAGNETIC PROXIMITY SWITCHES)

Sensor choicing The sensor is a switch indeed, connect in series with a load,

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.

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

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.

General features and codification scheme

### GENERAL FEATURES:

The magnetic sensor is a device that change its status with the magnetic field.

Basically it'fs 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

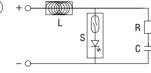
supply - (Picture n.2) -

- 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. (  $10 \div 20$  mA )

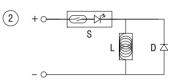


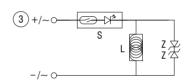
SENSOR CHOICING:

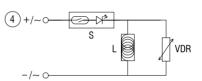
The functioning principles are two.

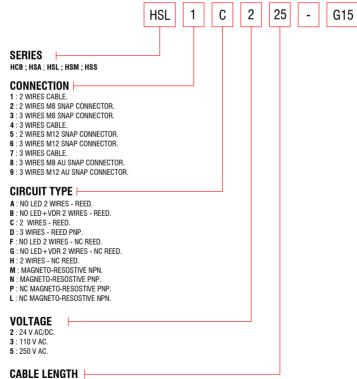
it must be used respecting its own electrical limit

It can be supplied with both Vac and Vdc voltage









(1)

#### NO DIGIT : WITHOUT CABLE.

03: EXTENSION WITH SENSOR + M8 L=0.3m.

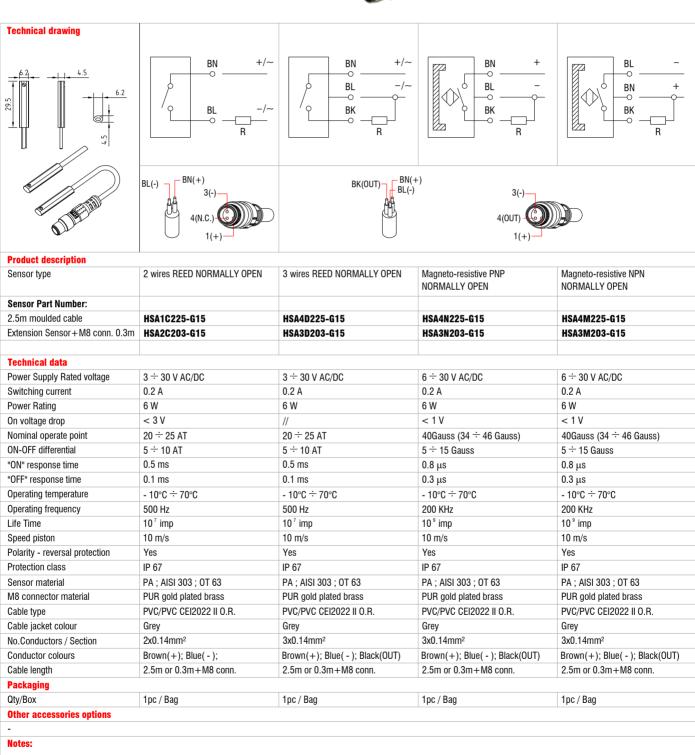
25: SENSOR + M8/M12 CONNECTOR WITH CABLE L=2.5m.

## **SENSORS (MAGNETIC PROXIMITY SWITCHES)**

**HSA Series** 





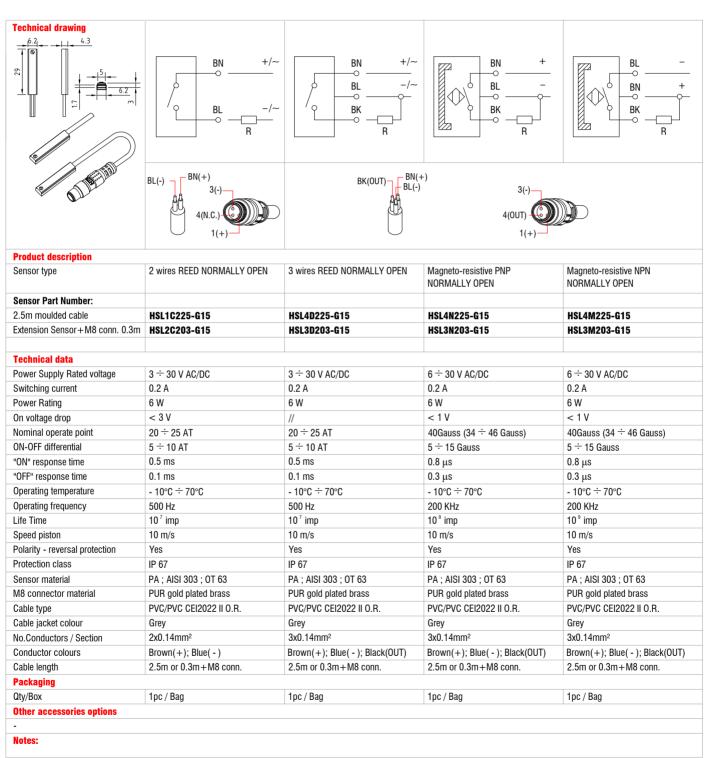




## **SENSORS (MAGNETIC PROXIMITY SWITCHES)**

HSL Series

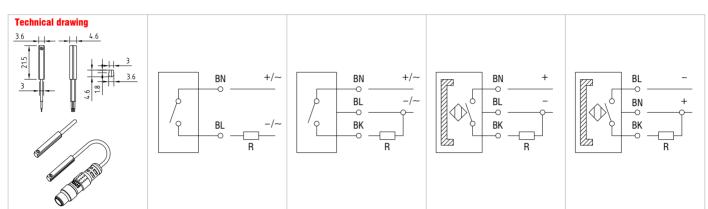




HSS Series







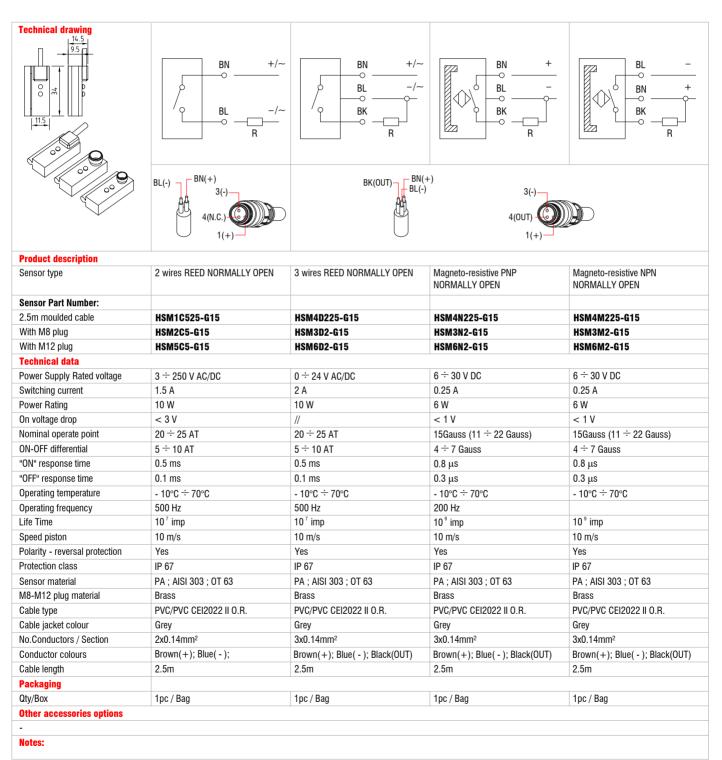
#### **Product description**

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	$3 \div 30 \text{ V AC/DC}$	$6 \div 30 \text{ V AC/DC}$	$6 \div 30 \text{ V AC/DC}$
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 μs		0.8 μs	0.8 μs
"OFF" response time	0.1 ms	0.1 ms	0.3 μs	0.3 μs
Operating temperature	- 10°C ÷ 70°C	- 10°C ÷ 70°C	- 10°C ÷ 70°C	- 10°C ÷ 70°C
Operating frequency	500 Hz	500 Hz	200 KHz	200 KHz
Life Time	10 <sup>7</sup> imp	10 <sup>7</sup> imp	10 <sup>°</sup> imp	10° imp
Speed piston	10 m/s	10 m/s	10 m/s	10 m/s
Polarity - reversal protection	Yes	Yes	Yes	Yes
Protection class	IP 67	IP 67	IP 67	IP 67
Sensor material	PA ; AISI 303 ; OT 63	PA ; AISI 303 ; OT 63	PA ; AISI 303 ; OT 63	PA ; AISI 303 ; OT 63
M8 connector material	PUR gold plated brass	PUR gold plated brass	PUR gold plated brass	PUR gold plated brass
Cable type	PVC/PVC CEI2022 II O.R.	PVC/PVC CEI2022 II O.R.	PVC/PVC CEI2022 II O.R.	PVC/PVC CEI2022 II O.R.
Cable jacket colour	Grey	Grey	Grey	Grey
No.Conductors / Section	2x0.14mm <sup>2</sup>	3x0.14mm <sup>2</sup>	3x0.14mm <sup>2</sup>	3x0.14mm <sup>2</sup>
Conductor colours	Brown(+); Blue( - );	Brown(+); Blue( - ); Black(OUT)	Brown(+); Blue( - ); Black(OUT)	Brown(+); Blue( - ); Black(OUT)
Cable length	2.5m or 0.3m+M8 conn.	2.5m or 0.3m+M8 conn.	2.5m or 0.3m+M8 conn.	2.5m or 0.3m+M8 conn.
Packaging				
Qty/Box	1pc / Bag	1pc / Bag	1pc / Bag	1pc / Bag



HSM Series





# SENSORS (MAGNETIC PROXIMITY SWITCHES) HSM Series

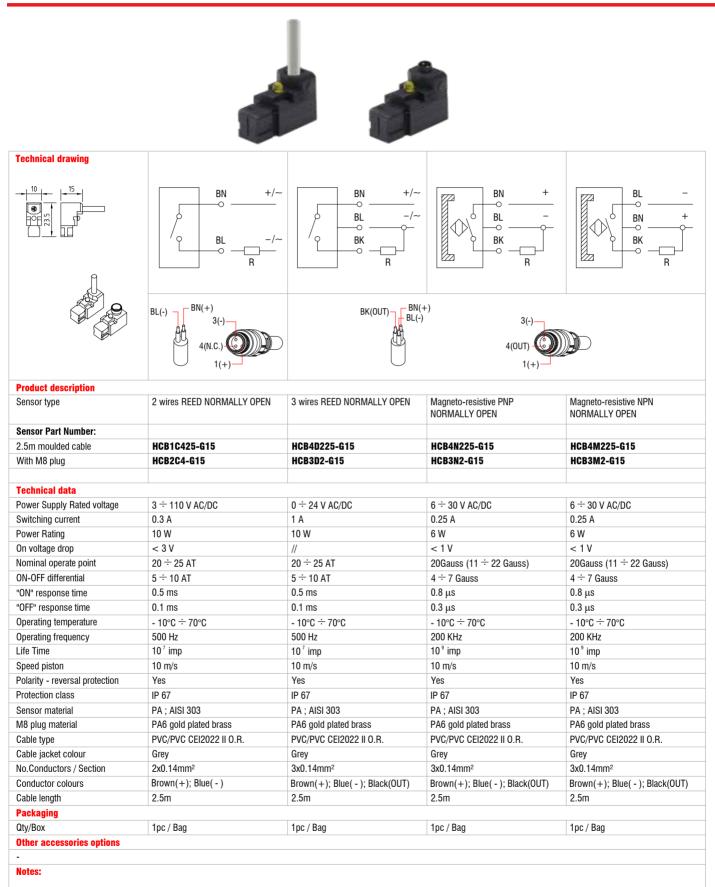




Technical drawing	BN +/~ BL -/~ BK -/~ BK BK(OUT) BK(OUT) BL(-) BL(-)		
Product description			
Sensor type	3 wires REED NORMALLY OPEN	Magneto-resistive PNP NORMALLY OPEN	
Sensor Part Number:			
2.5m moulded cable	HSM7D225-G15	HSM7N225-G15	
With M8 plug	HSM8D2-G15	HSM8N203-G15	
With M12 plug	HSM9D2-G15	HSM9N203-G15	
Technical data			1
Power Supply Rated voltage	$3 \div 30 \text{ V AC/DC}$	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	$5 \div 10 \text{ Gauss}$	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 Life Time	- 10°C ÷ 70°C 10 <sup>7</sup> imp	- 10°C ÷ 70°C 10° imp	
Speed piston	10 m/s	10 m/s	
Polarity - reversal protection	Yes	Yes	
Protection class	IP 68	IP 68	
Sensor material	PA	PA	
M8-M12 plug material	Brass	Brass	
Cable type	PVC/PVC CEI2022 II O.R.	PVC/PVC CEI2022 II O.R.	
Cable jacket colour	Grey	Grey	
No.Conductors / Section	3x0.14mm <sup>2</sup>	3x0.14mm <sup>2</sup>	
Conductor colours	Brown(+); Blue( - ); Black(OUT)	Brown(+); Blue( - ); Black(OUT)	
Cable length	2.5m	2.5m	
Packaging			
Qty/Box			
Other accessories options			
- Notes:			



HCB Series



Cylinder mounting clamps



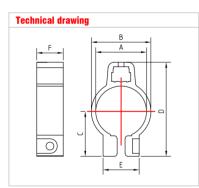
#### • CYLINDER MOUNTING CLAMPS:

• <u>HXF-G15:</u>



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:

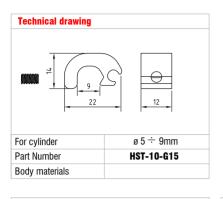


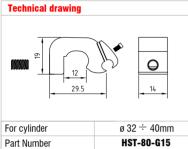
Microcylinder mounting clamps	HSW-08	HSW-10	HSW-12	HSW-16	HSW-20	HSW-25			
For cylinder	ø 8	ø 10	ø 12	ø 16	ø 20	ø 25			
A mm	ø 9.3	ø 11.3	ø 13.3	ø 17.3	ø 21.3	ø 26.5			
B mm	12.3	14.3	16.3	20.3	24.3	29.5			
C mm	11.1	12.2	13.2	15.3	17.4	20			
D mm	23.9	25.9	28	32.1	36.2	41.4			
Emm		12	2.3		1	4			
Fmm	9								
Body materials	PA ; AISI 303								

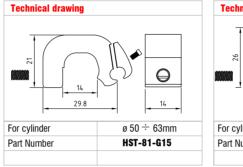


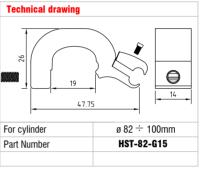
Mounting brackets for cylinder

#### • MOUNTING BRACKETS FOR CYLINDER:

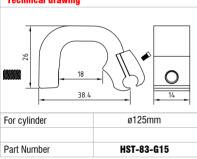








**Technical drawing** 





### • HK-CB-G15

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

#### • HK-SENS-G15

Technical drawing	Slot adapters material	Application	Packaging	Suitable sensors
32	PA		1PC/bag	HSN HSS
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	PA		1PC/bag	HSN HSS
	PA		1PC/bag	HSC HSL HSN HSS
14 15 15 15 15 15 15 15 15 15 15 15 15 15	PA		1PC/bag	HSC HSL HSN HSS

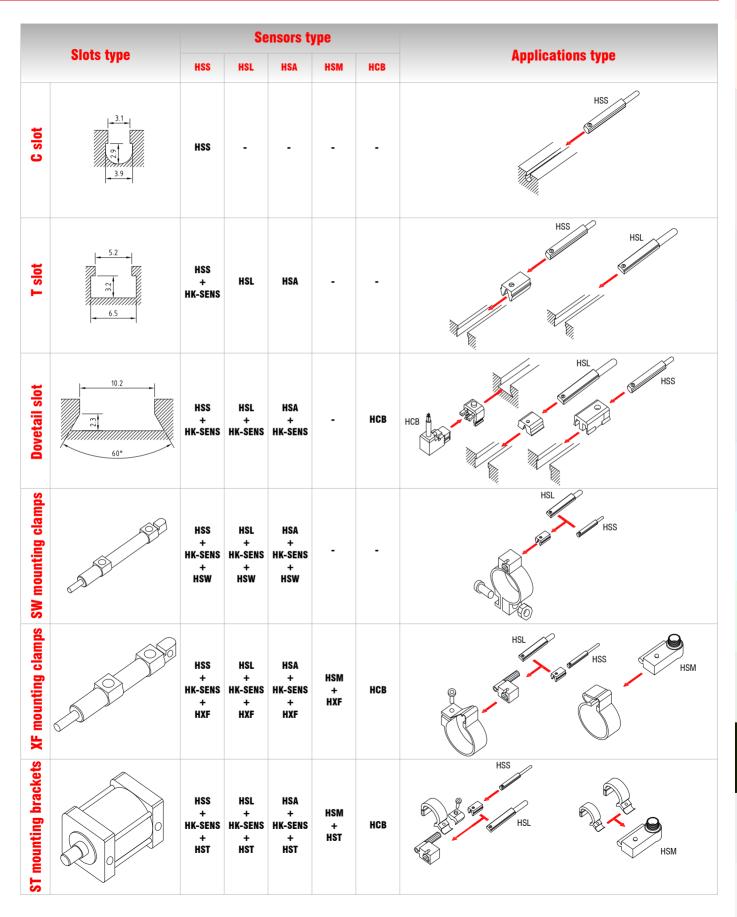


# SENSORS (MAGNETIC PROXIMITY SWITCHES) Slot adapters

• <u>HK-SL-G15</u>

Technical drawing	Slot adapters material	Application	Packaging	Suitable sensors
113 113 113 113 113 113 113 113	PA		1PC/bag	HSL
	PA		1PC/bag	HSL
r 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	PA	E Ad	1PC/bag	HSL
18 18 18 18 18 13 13 13 13 13 13 13 13 13 13 13 13 13	PA		1PC/bag	HSL







# Notes:

10000.		



# ACCESSORIES



Technical drawing	Gasket type	Part number	Gasket material	Rated temperature range	Colour	Packaging	Suitable connectors
	Drofiled	100013000	NBR	From -40°C to 90°C	Black	50pcs/bag	G1 G1C
	Profiled	10001400F	Silicone	From -40°C to 125°C	White		CG1 CGB
	Integrated	100014001	NBR	From -40°C to 90°C	Black	50pcs/bag	G1 G1C
	integrateu	10001400M	Silicone	From -40°C to 125°C	White	oopoo, bug	CG1 CGB
	Elet.	10001400A	NBR	From -40°C to 90°C	Black	50pcs/bag	G1 G1C CG1
	Flat	10001400G	Silicone	From -40°C to 125°C	White	oopoo, bug	CGB G4 TIMER-DIG
	Drofiled	300013000	NBR	From -40°C to 90°C	Black	50pcs/bag	M1 CM1
	Profiled	30001400H	Silicone	From -40°C to 125°C	White	copos, bug	M2 CM2
	Integrated	300014001	NBR	From -40°C to 90°C	Black	50pcs/bag	CM1
	mogratou	30001400J	Silicone	From -40°C to 125°C	White	00900, bag	GMT
	Integrated	30001400M	NBR	From -40°C to 90°C	Black	50pcs/bag	01/0
	integrateu	30001400K	Silicone	From -40°C to 125°C	White	Jopes/ Dag	CM2
	Flat	30001400A	NBR	From -40°C to 90°C	Black	50pcs/bag	M1 CM1
	Fiat	30001400G	Silicone	From -40°C to 125°C	White	00900, bag	M2 CM2
	Des (1)	500013000	NBR	From -40°C to 90°C	Black		P1 CP1
	Profiled	50001400F	Silicone	From -40°C to 125°C	White	100pcs/bag	P2 CP2
Sel .	Integrated	500014001	NBR	From -40°C to 90°C	Black	100,000 /bcc	CP1
A N	πισιαίου	50001400M	Silicone	From -40°C to 125°C	White	100pcs/bag	CP2
	Flat	50001400A	NBR	From -40°C to 90°C	Black	105 7	P1 CP1
	Flat	50001400G	Silicone	From -40°C to 125°C	White	100pcs/bag	P2 CP2



Technical drawing	Gasket type	Part number	Gasket material	Rated temperature range	Colour	Packaging	Suitable connectors	
	Profiled	100013000A	NBR	From -40°C to 90°C	Black	50pcs/bag	BG5	
	Fiolieu	100013000D	Silicone	From -40°C to 125°C	White		L'UU	
029	Flat	10001400J	NBR	From -40°C to 90°C	Black	100pcs/bag	BG0 BG8 BG1 BG10 BG1 BG16	
80	Hat	10001400K	Silicone	From -40°C to 125°C	White	roopoo, sag	BG2 BG33 BG5 BG42	
$\bigcirc \bigcirc \bigcirc \bigcirc$	Flot	10001400H	NBR	From -40°C to 90°C	Black	100pcs/bag	BG0 BG4	
0	Flat	10001400N	Silicone	From -40°C to 125°C	White	100p03/bag		
		30001400E	NBR	From -40°C to 90°C	Black	120pcs/bag	DM1	
	Flat	30001400F	Silicone	From -40°C to 125°C	White	120000 bag	BM1	
OF	Flat	50001400J	NBR	From -40°C to 90°C	Black	100pcs/bag	224	
6	Fidi	50001400K	Silicone	From -40°C to 125°C	White	100003, bag	BP1	
OFC	Flet	50001400E	NBR	From -40°C to 90°C	Black	100pcs/bag		
5-6	Flat	50001400H	Silicone	From -40°C to 125°C	White	τορεο μαθ	BP2	



Technical drawing	Thread type	Length	Part number	Screw material	Packaging	Suitable connectors	
	NO 0 5	42mm	10001500F	Iron + Zinc plated	50pcs/bag		
	M3x0.5	4211111	10001500F-SS	Iron AISI 304	oopoo, bug	G4	
Ŧ			10001500R	Iron + Zinc plated	50pcs/bag		
	M3x0.5	35mm	10001500R-SS	Iron AISI 304	Jopes/Day	CG5	
			10001500V	Iron + Zinc plated	50pcs/bag		
	M3x0.5	35.4mm	10001500V-SS	Iron AISI 304	Jopes/Day	G1C	
		00.5	100015000	Iron + Zinc plated	50pcs/bag	G1	
	M3x0.5	32.5mm	100015000-SS	Iron AISI 304	oopos/bag	M1 M2	
Ŧ			50001500A	Iron + Zinc plated	100pcs/bag		
	M2.5x0.5	28mm	50001500A-SS	Iron AISI 304	100003/049	P1	
Ŧ	M0.05		70001500B	Iron + Zinc plated	100pcs/bag		
	M3x0.5	0.5 28mm	70001500B-SS	Iron AISI 304	100003/049	Ρ2	
Ŧ		00	70001500C	Iron + Zinc plated	50pcs/bag		
	M3x0.5	26mm	70001500C-SS	Iron AISI 304	oopoo, bag	CM1B	
Ŧ	NO 0 5	0 <b>5</b> mm	10001500P	Iron + Zinc plated	50pcs/bag	CG1 G1 Adaptor	
	M3x0.5	25mm	10001500P-SS	Iron AISI 304	copoo, bay	CM1 M1 Adaptor CM2	
Ŧ	M0.05	00 Emm	70001500P	Iron + Zinc plated	50pcs/bag	CGB CP2	
	M3x0.5	22.5mm	70001500P-SS	Iron AISI 304	σομοσιμαγ	CP2 P2 Adaptor	
Ŧ			00 5	50001500P	Iron + Zinc plated	50pcs/bag	CP1
	M2.5x0.5	22.5mm	50001500P-SS	Iron AISI 304	σοροσισαυ	P1 Adaptor	



Technical drawing	Thread type	Length	Part number	Screw material	Packaging	Suitable connectors
T	ext.: M4x0.5	15.5mm	30020500	Iron + Zinc plated	120pcs/bag	BG8 BG10
	int.: M3x0.5	13.51111	30020500-88	Iron AISI 304	- 120µ03/bag	BG16 BM1
	ext.: M4x0.5	14mm	30020500A	Iron + Zinc plated	120pcs/bag	BG33
	int.: M3x0.5	1 - 11 11 11	30020500A-SS	Iron AISI 304	- 120µ03/bag	BG42
	M3x0.5	10mm	100210001	Iron + Zinc plated	200pcs/bag	BG1
	101320.5	Tomm	100210001-SS	Iron AISI 304		BG5
F	M3x0.5	8mm	700210001	Iron + Zinc plated	100pcs/bag	550
	11070.0		700210001-SS	Iron AISI 304	100p00,54g	BP2
	M2.5x0.5	8mm	500210001	Iron + Zinc plated	– 100pcs/bag	004
	WIZ.000.0		500210001-SS	Iron AISI 304	100p00, 54g	BP1
F	M3x0.5	7.3mm	100210003	Iron + Zinc plated	100pcs/bag	BG0
	W0X0.0		100210003-SS	Iron AISI 304	l oopoo, bug	BG4
F	M3x0.5	5mm	300210004*	Iron + Zinc plated	120pcs/bag	BM1
	101070.0		300210004-SS*	Iron AISI 304	1 20 000 bug	DIVIT
Ĩ	M3x0.5	4.8mm	100210002*	Iron + Zinc plated	100pcs/bag	BG1 BG16 BG5 BG33
	W070.0		100210002-SS*	Iron AISI 304		BG8 BG33 BG10 BG42

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

#### **NOTES:**

• All screws for DIN connectors are provided with different O-rings depending on the products where them are used.

• All O-rings are made in NBR - In case of other O-rings material is requested please contact us to verifiy the feaisibility.

• All Gaskets can't be sold alone, they must be ordered with the connectors or bases corresponding.

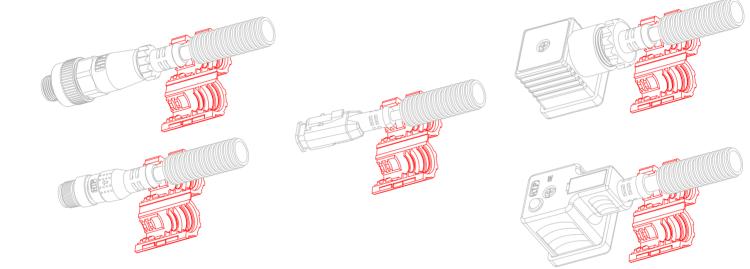
• All Screws can't be sold alone, they must be ordered with the connectors or bases corresponding.



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

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 12MU G4 12FU 12ML 12FL
	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 12FZ 12FC 12MZ 12MC 12FT 12FB 12MT 12MB

\* To connect the conduits clip, all field attachable connectors must have the gland with the exit cable.



Technical drawing	Seal type	Part number	Seal material	Colour	Packaging	Suitable gland	Suitable connectors
(00)	Round seal with 2 open holes	1001000C	PVC	Black	50pcs/bag	PG11	G1 G1C G4 12ML 12FL 12MU 12FU
	Round seal with 4 closed holes easy to break with conductors	1001000F	NBR	Black	50pcs/bag	PG11	G1 G1C G4 12ML 12FL 12MU 12FU
Ì	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

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



CA	BL	.ES	L	ST
01				

Code	Material	Type of cable	Colour	Section	No.core	Cable ø mm ±0.3	Temperature range °C	Form A - B	Form C
01	PVC/PVC	IEC332-1 H03VVF	Black	0.50mm <sup>2</sup>	3	ø5mm	-20°C / +80°C	•	•
A1	PVC/PVC	IEC332-1 H03VVF	Black	0.50mm <sup>2</sup>	2	ø5mm	-20°C / +80°C	•	•
B1	PVC/PVC	IEC332-1 H03VVF	Black	0.50mm <sup>2</sup>	4	ø6mm	-20°C / +80°C	•	•
02	PVC/PVC	IEC332-1 H05VVF	Black	0.75mm <sup>2</sup>	3	ø6.7mm	-20°C / +80°C	•	
A2	PVC/PVC	IEC332-1 H05VVF	Black	0.75mm <sup>2</sup>	2	ø6mm	-20°C / +80°C	•	
B2	PVC/PVC	IEC332-1 H05VVF	Black	0.75mm <sup>2</sup>	4	ø7mm	-20°C / +80°C	•	
C2	PVC/PVC	IEC332-1 H05VVF	Black	0.75mm <sup>2</sup>	5	ø8.3mm	-20°C / +80°C	٠	
03	PVC/PVC	CEI2022 II F.R.O.R.	Grey RAL7032	0.75mm <sup>2</sup>	3	ø5.5mm	-20°C / +80°C	٠	
A3	PVC/PVC	CEI2022 II F.R.O.R.	Grey RAL7032	0.75mm <sup>2</sup>	2	ø6mm	-20°C / +80°C	٠	
04	PVC/PVC	CEI2022 II F.R.O.R.	Grey RAL7032	0.50mm <sup>2</sup>	3	ø5mm	-20°C / +80°C	•	•
A4	PVC/PVC	CEI2022 II F.R.O.R.	Grey RAL7032	0.50mm <sup>2</sup>	2	ø5mm	-20°C / +80°C	•	•
B4	PVC/PVC	CEI2022 II F.R.O.R.	Grey RAL7032	0.50mm <sup>2</sup>	4	ø6mm	-20°C / +80°C	•	•
05	PVC/PVC	CEI2022 II F.R.O.R.	Grey RAL7032	0.75mm <sup>2</sup>	4	ø7mm	-20°C / +80°C	٠	
C5	PVC/PVC	CEI2022 II F.R.O.R.	Grey RAL7032	0.75mm <sup>2</sup>	5	ø8.3mm	-20°C / +80°C	•	
06	PVC/PVC	CEI2022 II F.R.O.R.	Grey RAL7032	1mm <sup>2</sup>	3	ø6.7mm	-20°C / +80°C	•	
A6*	PVC/PVC	CEI2022 II F.R.O.R.	Grey RAL7032	1mm <sup>2</sup>	2	ø6.7mm	-20°C / +80°C	•	
B6*	PVC/PVC	CEI2022 II F.R.O.R.	Grey RAL7032	1mm <sup>2</sup>	4	ø7.2mm	-20°C / +80°C	•	
07*	PVC/PVC	CEI2022 II F.R.O.R. SHIELDED	Grey RAL7032	1mm <sup>2</sup>	3	ø7.2mm	-20°C / +80°C	٠	
A7*	PVC/PVC	CEI2022 II F.R.O.R. SHIELDED	Grey RAL7032	1mm <sup>2</sup>	2	ø6.7mm	-20°C / +80°C	•	
B7*	PVC/PVC	CEI2022 II F.R.O.R. SHIELDED	Grey RAL7032	1mm <sup>2</sup>	4	ø8.3mm	-20°C / +80°C	٠	
08*	PUR/PVC		Black	0.50mm <sup>2</sup>	3	ø5mm	-40°C / +80°C	٠	•
A8*	PUR/PVC		Black	0.50mm <sup>2</sup>	2	ø5mm	-40°C / +80°C	٠	•
B8*	PUR/PVC		Black	0.50mm <sup>2</sup>	4	ø6mm	-40°C / +80°C	٠	•
C8*	PUR/PVC		Black	0.50mm <sup>2</sup>	5	ø6.5mm	-40°C / +80°C	٠	
09*	PUR/PVC		Black	0.75mm <sup>2</sup>	3	ø6mm	-40°C / +80°C	•	
A9	PUR/PVC		Black	0.75mm <sup>2</sup>	2	ø6mm	-40°C / +80°C	•	
B9*	PUR/PVC		Black	0.75mm <sup>2</sup>	4	ø7.2mm	-40°C / +80°C	•	
10*	PUR/PUR	Li-YY11Y	Black	0.50mm <sup>2</sup>	3	ø5mm	-40°C / +80°C	•	•
AA*	PUR/PUR	Li-YY11Y	Black	0.50mm <sup>2</sup>	2	ø5mm	-40°C / +80°C	•	•
AB*	PUR/PUR	Li-YY11Y	Black	0.50mm <sup>2</sup>	4	ø6.7mm	-40°C / +80°C	•	•
11*	PUR/PUR	Li-YY11Y	Black	0.75mm <sup>2</sup>	3	ø6.7mm	-40°C / +80°C	•	
BA*	PUR/PUR	Li-YY11Y	Black	0.75mm <sup>2</sup>	2	ø6.5mm	-40°C / +80°C	•	
BB*	PUR/PUR	Li-YY11Y	Black	0.75mm <sup>2</sup>	4	ø7.2mm	-40°C / +80°C	•	
13*	PVC/PVC	IEC332-1 H05VVF	Black	1mm <sup>2</sup>	2	ø6mm	-20°C / +80°C	•	
14*	PVC/PVC	CEI2022 II F.R.O.R.	Black	1mm <sup>2</sup>	3	ø6.7mm	-20°C / +80°C	•	
16*	PVC/PVC	UL style 21179	Black	18 AWG	3	ø6.7mm	-20°C / +105°C	•	

 $\star$  = Cables with minimum quantity required.



Code	Material	Type of cable	Colour	Section	No.core	Cable ø mm ±0.3	Temperature range °C	<b>M8</b>	M12	M9	<b>M8</b> c () us	M12 c(h)us
		05/0000	5		3 *	ø2.6mm	-20°C / +80°C	•	•			
K	PVC/PVC	CEI2022	Black	0.14mm <sup>2</sup>	12	ø6.5mm	-20°C / +80°C		•			
					2 *	ø3.5mm	-20°C / +80°C	•	•			
					3	ø 4mm	-20°C / +80°C	•	•			
A	PVC/PVC	CEI2022	Black	0.25mm <sup>2</sup>	4	ø 4.4mm	-20°C / +80°C	•	•			
					5	ø 4.7mm	-20°C / +80°C		•			
					8	ø 6mm	-20°C / +80°C		•			
					2 *	ø 4.8mm	-20°C / +80°C	•	•			
					3 *	ø 4.8mm	-20°C / +80°C	•	•			
В	PVC/PVC	CEI2022	Black	0.34mm <sup>2</sup>	4	ø 5.2mm	-20°C / +80°C	•	•			
					5 *	ø 5.5mm	-20°C / +80°C		٠			
					8	ø 6.5mm	-20°C / +80°C		•			
					2	ø3.5mm	-20°C / +80°C	•	٠			
					3	ø 4mm	-20°C / +80°C	•	•			
N	PVC/PVC	CEI2022	Grey RAL7032	0.25mm <sup>2</sup>	4	ø 4.4mm	-20°C / +80°C	•	•			
					5 *	ø 4.7mm	-20°C / +80°C		•			
					8 *	ø 6mm	-20°C / +80°C		•			
					2 *	ø 4.8mm	-20°C / +80°C	•	•			
					3	ø 4.8mm	-20°C / +80°C	•	•			
L	PVC/PVC	CEI2022	Grey RAL7032	0.34mm <sup>2</sup>	4	ø 5.2mm	-20°C / +80°C	•	•			
					5	ø 5.5mm	-20°C / +80°C		•			
					8 *	ø 6.5mm	-20°C / +80°C		•			
					3 *	ø2.6mm	-40°C / +80°C	•	•			
H	PUR/PUR		Black	0.14mm <sup>2</sup>	12 *	ø6mm	-40°C / +80°C		•			
					2 *	ø 3.5mm	-40°C / +80°C	•	•			
					3 *	ø 4mm	-40°C / +80°C	•	•			
C	PUR/PUR		Black	0.25mm <sup>2</sup>	4 *	ø 4.4mm	-40°C / +80°C	•	•			
					5 *	ø 4.7mm	-40°C / +80°C		•			
					8 *	ø 6mm	-40°C / +80°C		•			
					3	ø4.1mm	-40°C / +80°C	•	•		•	
		FFER			4	ø4.7mm	-40°C / +80°C	•	•			
C-K6-IS	PUR/TP0	cRuius ULstyle 21576	Black	0.25mm <sup>2</sup>	5	ø5.1mm	-40°C / +80°C		•			
					8	ø6.3mm	-40°C / +80°C		•			•
					2 *	ø 4.8mm	-40°C / +80°C	•	•			
					3 *	ø 4.8mm	-40°C / +80°C	•	•			
D	PUR/PUR		Black	0.34mm <sup>2</sup>	4 *	ø 5.2mm	-40°C / +80°C		•			
					5 *	ø 5.5mm	-40°C / +80°C		•			
					8*	ø 6.5mm	-40°C / +80°C		•			
					-							



Code	Material	Type of cable	Colour	Section	No.core	Cable ø mm ±0.3	Temperature range °C	<b>M8</b>	M12	M9	М8 с <b>(फ़)</b> из	M1
		FFFR		AWG 22	4	ø4.8mm	-40°C / +80°C	٠	•		•	
D-K6-IS	PUR/TPO	c Sus ULstyle 21576	Black	(0.34mm <sup>2</sup> )	5	ø5.3mm	-40°C / +80°C		•			•
					2 *	n.a.	-20°C / +80°C	•	•			
		_			3 *	n.a.	-20°C / +80°C	•	•			
J	PVC/PVC	CEI2022 SHIELDED	Black	0.25mm <sup>2</sup>	4 *	ø4.8mm	-20°C / +80°C	•	•			
		Q	<b>0/</b> /		5 *	ø5.2mm	-20°C / +80°C		•	•		
					8 *	ø6.5mm	-20°C / +80°C		•			
					2 *	n.a.	-20°C / +80°C	•	•			
		_			3 *	n.a.	-20°C / +80°C	•	•			
F	PVC/PVC	CEI2022 SHIELDED	Black	0.34mm <sup>2</sup>	4 *	ø5.5mm	-20°C / +80°C	•	•			
		Q			5 *	ø6mm	-20°C / +80°C		•			
					8 *	n.a.	-20°C / +80°C		•			
					2 *	n.a.	-20°C / +80°C	•	•			
		_			3 *	n.a.	-20°C / +80°C	•	•			
Q	PVC/PVC	CEI2022 SHIELDED	Grey RAL7032	0.25mm <sup>2</sup>	4	ø4.8mm	-20°C / +80°C	•	•			
			<b>0</b> /)		5 *	ø5.2mm	-20°C / +80°C		•	•		
					8 *	n.a.	-20°C / +80°C		•			
					2 *	n.a.	-20°C / +80°C	•	•			
					3 *	n.a.	-20°C / +80°C	•	•			
R	PVC/PVC	CEI2022 SHIELDED	Grey RAL7032	0.34mm <sup>2</sup>	4 *	ø5.5mm	-20°C / +80°C	•	•			
			<b>0</b> /)		5 *	ø6mm	-20°C / +80°C		•	•		
					8 *	n.a.	-20°C / +80°C		•			
					2 *	n.a.	-20°C / +105°C	٠	•			
					3 *	ø4.8mm	-20°C / +105°C	•	•			
I	PVC/PVC	c 🕄 us ULstyle 21179	Black	AWG 22 (0.25mm <sup>2</sup> )	4 *	ø5.2mm	-20°C / +105°C	•	•		•	•
		SHIELDED	<b>0/</b> /	(0.2011111)	5 *	n.a.	-20°C / +105°C		•	•	•	•
					8 *	ø6.3mm	-20°C / +105°C		•		•	•
					2 *	n.a.	-40°C / +80°C	٠	•			
		_			3 *	ø4.4mm	-40°C / +80°C	•	•			
U	PUR/PUR	SHIELDED	Black	0.25mm <sup>2</sup>	4	ø4.8mm	-40°C / +80°C	•	•			
					5 *	ø5.2mm	-40°C / +80°C		•	•		
					8	n.a.	-40°C / +80°C					
U-K6-IS	PUR/TPO	CRUIS ULstyle 21576	Black	AWG 24 (0.25mm <sup>2</sup> )	8	ø7mm	-40°C / +80°C		•			•
					2 *	n.a.	-40°C / +80°C	•	•			-
					3 *	ø4.8mm	-40°C / +80°C	•	•			
G	PUR/PUR	SHIELDED	Black	0.34mm <sup>2</sup>	4 *	ø5.5mm	-40°C / +80°C	•	•			-
-	.,		<b>0</b> //		5 *	ø6mm	-40°C / +80°C		•	•		-
					8 *	n.a.	-40°C / +80°C		•			-
G-K6-IS	PUR/TP0	CNUS ULstyle 21576	Black	AWG 22 (0.34mm <sup>2</sup> )	5	ø5.4mm	-40°C / +80°C		•	•		

\* = Cables with minimum quantity required.



	"PRO	FIBUS" <b>CE</b> ([1x2x0,25]) mm² IEC	60332-1 🕀 ([	1x2x24])	AWG					P R B U	ļoļr TST	<u>10</u> °
Code	Material	Type of cable	Colour	Section	No.core	Cable ø mm ±0.3	Temperature range °C	<b>M8</b>	M12	M9	<b>M8</b> c <b>())</b> us	M12
T-K6-IS	PUR / Polyolefin	SHIELDED	Violet RAL4001 Desina	AWG 24 (0.25mm <sup>2</sup> )	1 x 2	ø8.2mm	-30°C / +70°C		•			•
° <b>AL</b> u:	S AWM STYLE 2	2464 80°C 300V - AWM I/II A/B 80°C 300V FT1 - CONTR(	DL DATABUST - Device	net - O.R. FES	T [(2xAWG24)H	(2xAWG22)H]H	2 - CE		D	evic	eNet	$\supset$
Code	Material	Type of cable	Colour	Section	No.core	Cable ø mm ±0.3	Temperature range °C	<b>M8</b>	M12	M9	<b>M8</b> c <b>()</b> us	M12
21-IS	PVC / Polyolefin	NUS ULSTYLE 2464 SHIELDED	Violet RAL4001 Desina	AWG 24 AWG 22	1x 2+1 x 2	ø7mm	-30°C / +80°C		•			•
<b>91</b> 0s - 1	AWM STYLE	20236 80°C 30V - AWM I/II A/B 80°C 30V FT1 -	ETHERNET CABLE	CAT.6 - O.R	R. PMXX-ST (	4x2xAWG26)	H/H2		Eti	herN	et/IP	9
Code	AWM STYLE Material	20236 80°C 30V - AWM I/II A/B 80°C 30V FT1 - Type of cable	ETHERNET CABLE	CAT.6 - O.R Section	. PMXX-ST ( No.core	4x2xAWG26) Cable ø mm ±0.3	H/H2	M8	Eti M12	herN M9	et/IP	M12
						Cable ø		<b>M8</b>			M8	M12
Code	Material PUR /	Type of cable	Colour Green RAL6016	Section AWG 26 (0.14mm <sup>2</sup> )	No.core	<b>Cable ø</b> mm ±0.3 ø7.2mm	Temperature range °C	M8		M9	M8	M12
Code	Material PUR /	Type of cable	Colour Green RAL6016	Section AWG 26 (0.14mm <sup>2</sup> )	No.core	<b>Cable ø</b> mm ±0.3 ø7.2mm	Temperature range °C	M8		M9	M8 ເ∰⊍s	M12

### • CABLE OF M12 POWER CONNECTORS K-CODED / S-CODED :

	()e	4G1,5/4xAWG16 CNUS AWM style 2	0234 - AWM I/II A/B 80°C 1000\	/ FT1				1 2 3				
Code	Material	Type of cable	Colour	Section	No.core	Cable ø mm ±0.3	Temperature range °C	M8	M12	M9	<b>M8</b> c <b>()</b> us	M12
81-K6-IS	PUR / Polyolefin	ULstyle 20234	Orange RAL2003 Desina	AWG 16 (1.5mm <sup>2</sup> )	4 *	ø8.6mm	-30°C / +80°C		•			•
					4 *	ø10mm	-20°C / +80°C		•			
35	PVC/PVC	CEI2022	Black	1.50mm <sup>2</sup>	5 *	ø10.40mm	-20°C / +80°C		•			
46	PVC/PVC	CEI2022	Black	1.50mm <sup>2</sup>	4 *	ø10mm	-20°C / +80°C		•			
40	FV0/FV0	GEIZUZZ	Diack	1.3011111-	5 *	ø10mm	-20°C / +80°C		•			
53			Disele	1.50mm2	4 *	ø10mm	-40°C / +80°C		•			
53	PUR/PUR		Black	1.50mm <sup>2</sup>	5 *	ø10mm	-40°C / +80°C		•			
EA	סווס/ סווס		Disali	1.50mm2	4 *	ø10mm	-40°C / +80°C		٠			
54	PUR/PUR	SHIELDED	Black	1.50mm <sup>2</sup>	5 *	ø10.40mm	-40°C / +80°C		٠			



#### • CABLE OF M8 DISTRIBUCTION BOXES :

Code	Material	Type of cable	Colour	Section	No.core	Cable ø	Temperature		BOX S	SINGLE SIG	NAL	
Coue	Wateria	Type of cable	Colour	Section	NU.CUIC	mm ±0.3	range °C	4 POS.	6 POS.	8 POS.	10 POS.	12 POS.
V-2+8	PVC /PVC	CEI2022II O.R.	Black	2x0.50mm <sup>2</sup> 8x0.25mm <sup>2</sup>	2+8	ø9mm	-20°C / +80°C	•	•	•		
V-2+12	PVC /PVC	CEI2022II O.R.	Black	2x0.50mm <sup>2</sup> 12x0.25mm <sup>2</sup>	2+12	ø10mm	-20°C / +80°C				•	•
D-2+6-K6	PUR /PUR	CANUS ULstyle 21576	Black	2x20AWG 6x22AWG	2+6	ø7,50mm	-40°C / +80°C	•	•			
D-2+10-K6	PUR /PUR	SULstyle 21576	Black	2x20AWG 10x22AWG	2+10	ø8,50mm	-40°C / +80°C			•	•	
P-2+8	PUR /PUR		Black	2x0.50mm <sup>2</sup> 8x0.25mm <sup>2</sup>	2+8	ø9mm	-40°C / +80°C	•	•	•		
P-2+12	PUR /PUR		Black	2x0.50mm <sup>2</sup> 12x0.25mm <sup>2</sup>	2+12	ø10mm	-40°C / +80°C				•	•

### • CABLE OF M12 DISTRIBUCTION BOXES :

Code	Material	Type of cable	Colour	Section	No.core	Cable ø 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 <sup>2</sup> 8x0.34mm <sup>2</sup>	3+8	ø8.80mm	-20°C / +80°C	•	•	•	•		
V-3+16	PVC /PVC	CEI2022II O.R.	Black	3G0.75mm <sup>2</sup> 16x0.34mm <sup>2</sup>	3+16	ø10.60mm	-20°C / +80°C					•	•
P-3+8-K6-IS	PUR /TPO	CRUIS ULstyle 20549	Black	3G0.75mm <sup>2</sup> 8x0.34mm <sup>2</sup>	3+8	ø8.80mm	-40°C / +80°C	•	•	•	•		
P-3+16-K6-IS	PUR /TPO	CNUS ULstyle 20549	Black	3G0.75mm <sup>2</sup> 16x0.34mm <sup>2</sup>	3+16	ø10.60mm	-40°C / +80°C					•	•

\* = Cables with minimum quantity required.



Notes:	



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