

1403580

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Data connector, Ethernet/PROFINET, 4-position, shielded, Plug straight M12, coding: D, Screw connection, knurl material: Stainless steel 1.4404, cable gland M16, external cable diameter 5.5 mm ... 8.6 mm

Your advantages

- · Safe use in the field, thanks to a high degree of protection
- Screw connection: proven connection technology for a large selection of different conductors
- Reliable signal transmission 360° shielding in environments with electromagnetic interference

Commercial data

Item number	1403580
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	BF30
Product key	BF2CBA
GTIN	4046356659512
Weight per piece (including packing)	56.9 g
Weight per piece (excluding packing)	56.9 g
Customs tariff number	85366990
Country of origin	DE



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Technical data

Notes

Assembly note	NOTE: Observe the permissible bending radii when routing
	cables, since the degree of protection may be at risk if the bending forces are too high. Reduce mechanical loads upstream of the connector, e.g., by using cable ties.

Product properties

Product type	Circular connector (cable-side)
Sensor type	Ethernet/PROFINET
Number of positions	4
No. of cable outlets	1
Shielded	yes
Coding	D
Cable outlet	straight
Pg screw connection	M16
Landa Carlos and Angles	
Insulation characteristics	
Overvoltage category	II

3

Dimensions

Degree of pollution

Dimensional drawing	ca. 62
Length	62 mm
External dimensions	
Outside diameter	5.5 mm 8.6 mm
Housing	
Diameter housing	20 mm
Diameter nousing	20 111111

Material specifications

Flammability rating according to UL 94	НВ
Seal material	FKM
Material of grip body	Stainless steel 1.4404
Contact material	CuZn
Contact surface material	Au
Contact carrier material	PA
Material for screw connection	Stainless steel 1.4404



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Connection data

Conductor connection

Connection method	Screw connection
Connection cross section	0.25 mm² 0.75 mm² (without ferrule)
	0.14 mm ² 0.75 mm ² (with ferrule)
	0.25 mm² 0.75 mm² (solid)
Connection cross section AWG	24 18 (without ferrule)
	26 20 (with ferrule)
Stripping length of the individual wire	5 mm
Tightening torque	0.4 Nm (M12 knurl)
	0.2 Nm (Screw terminal blocks)
	0.8 Nm 1 Nm (Pressure nut with sleeve housing with 4 mm 8 mm external cable diameter)
	1 Nm 1.4 Nm (Pressure nut with sleeve housing with 8 mm 12 mm external cable diameter)

Electrical properties

Rated surge voltage	2.5 kV
Contact resistance	≤ 3 mΩ
Insulation resistance	≥ 100 MΩ
Nominal voltage U_N	48 V AC
	60 V DC
Nominal current I _N	4 A

Mechanical properties

Mec	hanical	l data

Insertion/withdrawal cycles	≥ 100	
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Connector

Connection 1

Head design	Plug
Head cable outlet	straight
Head thread type	M12
Coding	D

Cable/line

Signal type/category	Ethernet/PROFINET
Stripping length of the individual wire	5 mm

Environmental and real-life conditions

Ambient	conditions

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	IP65



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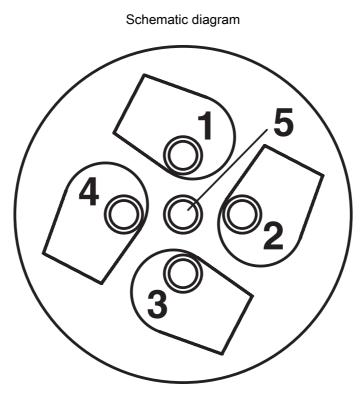
Degree of protection	IP67	
	IP69K	
Ambient temperature (operation)	-40 °C 85 °C (Plug / socket)	
, and one temperature (operation)		
Standards and regulations		
, , , , , , , , , , , , , , , , , , , ,	M12 connector	



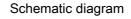
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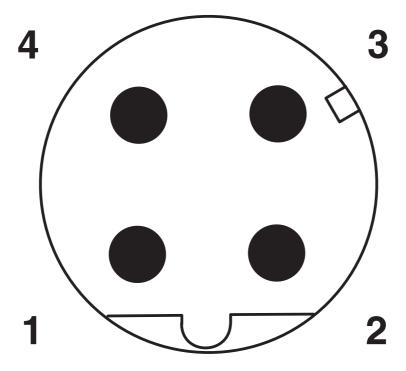
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Drawings



Cable connection side M12 (screw connection)





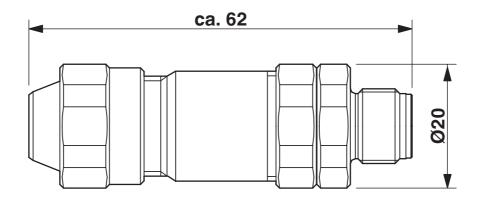
Pin assignment M12 male connector, 4-pos., D-coded, male side



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Dimensional drawing



Plug, M12 x 1, straight, shielded



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Classifications

ECLASS

UNSPSC 21.0

	ECLASS-11.0	27440102	
	ECLASS-12.0	27440116	
	ECLASS-13.0	27440116	
ETIM			
	ETIM 9.0	EC002635	
UN	SPSC		

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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)
China RoHS	
Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	5b00a5bc-da99-4951-99b5-ef5d343eb067



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Accessories

PROT-M12 FS - Sealing cap

1560251

https://www.phoenixcontact.com/us/products/1560251



M12 sealing cap for unoccupied M12 plugs of the sensor/actuator cable, flush-type plugs and I/O devices in the field

A 0,25-5-Ferrule

3202465

https://www.phoenixcontact.com/us/products/3202465



Ferrule, Length contact range: 5 mm, sleeve length: 5 mm, color: silver



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TSD 04 SAC - Torque screwdriver

1208429

https://www.phoenixcontact.com/us/products/1208429



Torque screwdriver, with preset torque of 0.4 Nm and 4 mm hexagonal drive for M12 connectors

SACC BIT M12-W18 - Tool

1231753

https://www.phoenixcontact.com/us/products/1231753



Nut for assembling M12 connectors designed for assembly, with a hexagonal knurl wrench size of 18 mm, with 4 mm hexagonal drive $\,$



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CRIMPFOX 6H - Crimping pliers

1212046

https://www.phoenixcontact.com/us/products/1212046



Crimping pliers, for ferrules without insulating collar according to DIN 46228 Part 1 and ferrules with insulating collar according to DIN 46228 Part 4, 0.14 mm^2 ... 6 mm^2 , unlockable pressure lock, lateral entry

WIREFOX SAC - Stripping tool

1212623

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Stripping pliers, for halogen-free sensor/actuator cables (SAC cables), with PUR and PVC insulation, from \varnothing of 4.4 to 7 mm, any stripping length



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VS-CABLE-STRIP-VARIO - Stripping tool

1657407

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Stripping tool, for the multi-level stripping of shielded cables



SZF 1-0,6X3,5 - Screwdriver

1204517

https://www.phoenixcontact.com/us/products/1204517



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: $0.6 \times 3.5 \times 100$ mm, 2-component grip, with non-slip grip

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