

1507777
<https://www.phoenixcontact.com/us/products/1507777>

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Data connector, PROFIBUS, INTERBUS, 5-position, shielded, Socket straight M12, coding: B, Screw connection, knurl material: Zinc die-cast, nickel-plated, cable gland Pg9, external cable diameter 6.5 mm ... 8.5 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	1507777
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF30
Product key	BF2CBA
Catalog page	Page 422 (C-2-2019)
GTIN	4017918900434
Weight per piece (including packing)	47.86 g
Weight per piece (excluding packing)	47.86 g
Customs tariff number	85366990
Country of origin	HU

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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)
Application	Data
Sensor type	PROFIBUS
Number of positions	5
No. of cable outlets	1
Shielded	yes
Coding	B
Cable outlet	straight
Pg screw connection	Pg9

Data management status

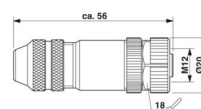
Article revision	03
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Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Dimensions

Dimensional drawing



Width	20 mm
Height	20 mm
Length	56 mm

External dimensions

Outside diameter	6.5 mm ... 8.5 mm
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Housing

Diameter housing	20 mm
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Material specifications

Flammability rating according to UL 94	HB
Seal material	NBR
Material of grip body	Zinc die-cast, nickel-plated

SACC-M12FSB-5CON-PG9 SH AU - Data connector



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Contact material	CuZn
Contact surface material	Au
Contact carrier material	PA 6.6
Material for screw connection	Zinc die-cast, nickel-plated

Connection data

Conductor connection

Connection method	Screw connection
Connection cross section	0.25 mm² ... 0.75 mm² (without ferrule)
	0.14 mm² ... 0.75 mm² (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 4 mm ... 8 mm external cable diameter)
	1 Nm ... 1.4 Nm (Pressure nut with 8 mm ... 12 mm external cable diameter)

Electrical properties

Rated surge voltage	1.5 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

Mechanical data

Insertion/withdrawal cycles	≥ 100
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Connector

Connection 1

Head design	Socket
Head cable outlet	straight
Head thread type	M12
Coding	B

Cable/line

Signal type/category	PROFIBUS
	INTERBUS
Stripping length of the individual wire	5 mm

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Environmental and real-life conditions

Ambient conditions	
Degree of protection	IP67
Ambient temperature (operation)	-40 °C ... 85 °C (Plug / socket)

Standards and regulations

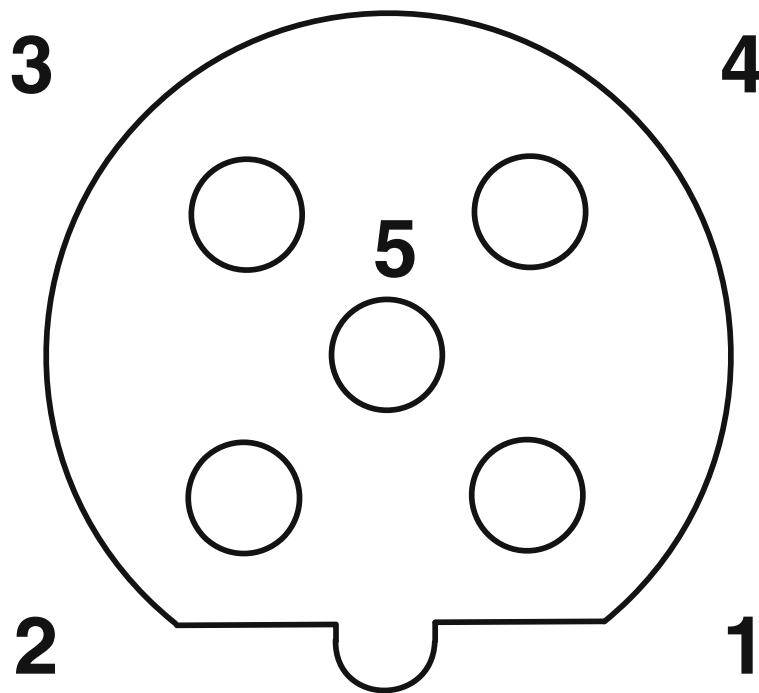
M12	
Standard designation	M12 connector
Standards/specifications	IEC 61076-2-101

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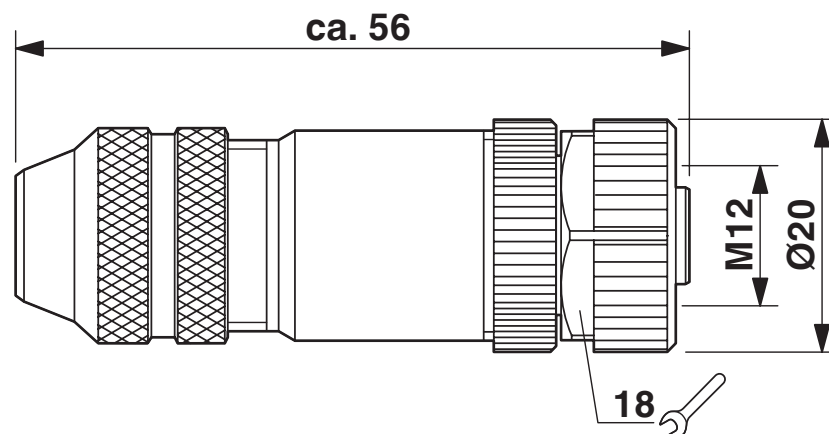
Drawings

Schematic diagram



Pin assignment M12 socket, 5-pos., B-coded, female side

Dimensional drawing



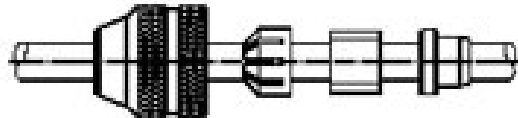
M12 x 1 socket, straight, shielded

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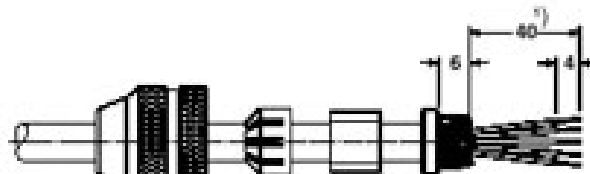
<https://www.phoenixcontact.com/us/products/1507777>

Functional drawing

Assembly steps for M 12 male/female connector and conductor

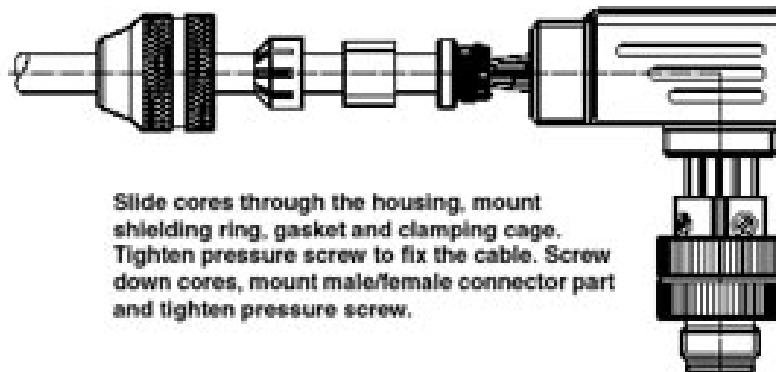


Slide parts onto the conductor



1) For straight version: 35

Strip conductor, widen shield and lay around the shielding ring, cut off projecting mesh.

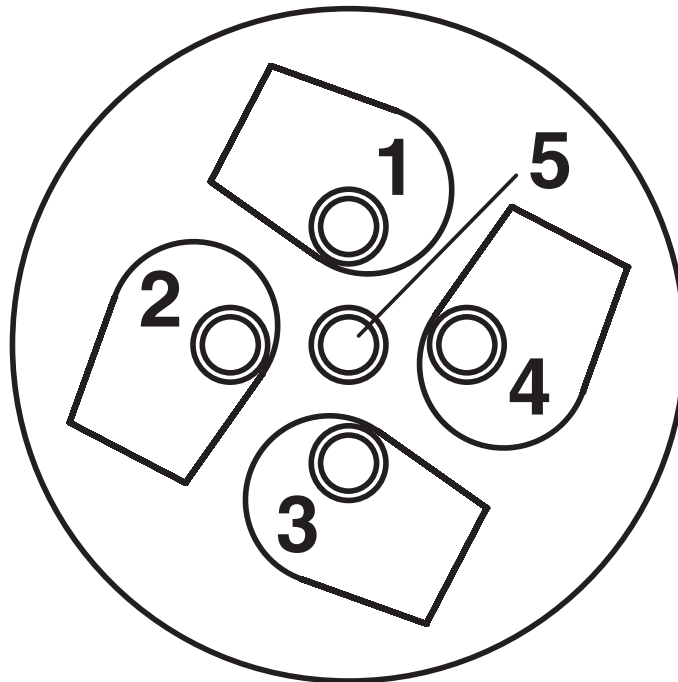


Slide cores through the housing, mount shielding ring, gasket and clamping cage. Tighten pressure screw to fix the cable. Screw down cores, mount male/female connector part and tighten pressure screw.

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Schematic diagram





Cable connection side M12 (screw connection)

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1507777>

<div> cUL Recognized Approval ID: FILE E 221474</div>				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	60 V	4 A	-	-

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cULus Recognized				
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Classifications

ECLASS

ECLASS-11.0	27440102
ECLASS-12.0	27440116
ECLASS-13.0	27440116

ETIM

ETIM 9.0	EC002635
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UNSPSC

UNSPSC 21.0	39121400
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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	99fe473f-067f-40da-86ed-65a42d877f80

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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com