

SACC-M12MSB-5CON-PG9 SH XL PB - Data connector



1401096

<https://www.phoenixcontact.com/no/products/1401096>

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Data connector, PROFIBUS, INTERBUS, 5-position, shielded, Plug straight M12, coding: B, Screw connection, knurl material: Zinc die-cast, nickel-plated, cable gland Pg11, external cable diameter 8 mm ... 10 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	1401096
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	31BBFS
Product key	BF2CBA
GTIN	4046356523349
Weight per piece (including packing)	55.01 g
Weight per piece (excluding packing)	55.01 g
Customs tariff number	85366990
Country of origin	DE

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Technical data

Notes

General	NOTE: Observe the permissible bending radii when laying conductors, since the degree of protection may be put in jeopardy if the bending forces are too high. Alleviate mechanical loads upstream of the connector, e.g. by using cable ties.
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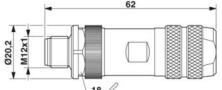
Product properties

Product type	Circular connector (cable-side)
Sensor type	PROFIBUS
Number of positions	5
Application	Data
No. of cable outlets	1
Shielded	yes
Coding	B
	B
Cable outlet	straight
Pg screw connection	Pg11

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Dimensions

Dimensional drawing	
Length	62 mm
Wrench size, union nut	16 mm

External dimensions

Outside diameter	8 mm ... 10 mm
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Housing

Diameter housing	20.2 mm
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Material specifications

Flammability rating according to UL 94	V0
Seal material	NBR
Material of grip body	Zinc die-cast, nickel-plated
Contact material	CuZn
Contact surface material	Au

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Contact carrier material	PA
Material for screw connection	Zinc die-cast, nickel-plated

Connection data

Conductor connection

Connection method	Screw connection
Connection cross section	0.25 mm ² ... 0.75 mm ² (without ferrule) 0.14 mm ² ... 0.75 mm ² (with ferrule) 0.25 mm ² ... 0.75 mm ² (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) 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

Connector

Connection 1	
Head design	Plug
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

Environmental and real-life conditions

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

Standards and regulations

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

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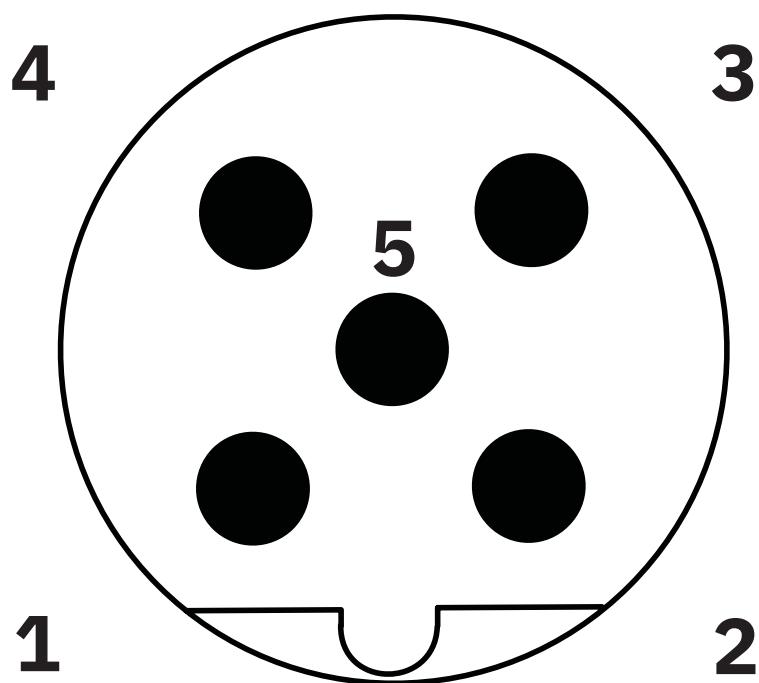


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Drawings

Schematic diagram



Pin assignment M12 male connector, 5-pos., B-coded, male side

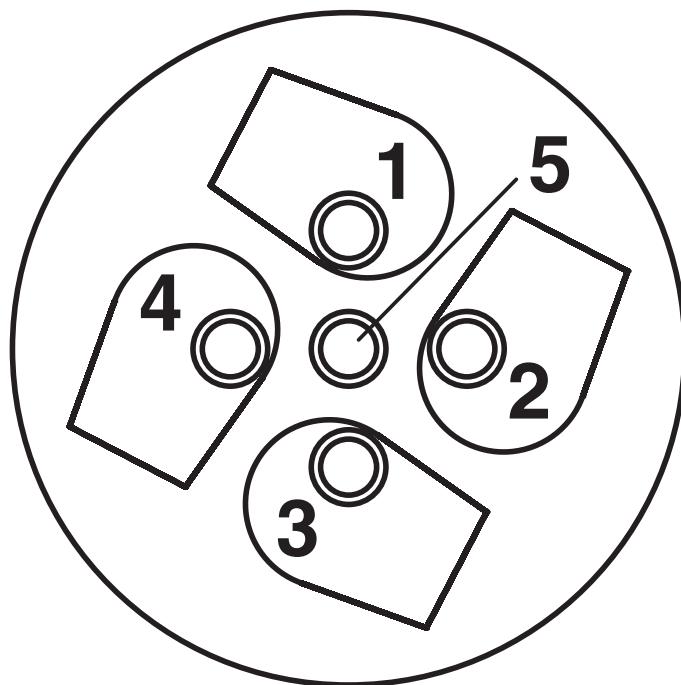
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1401096

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Schematic diagram



Cable connection side M12 (screw connection)

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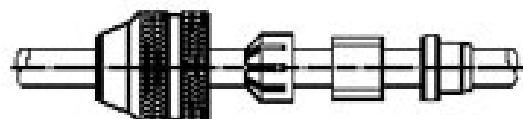


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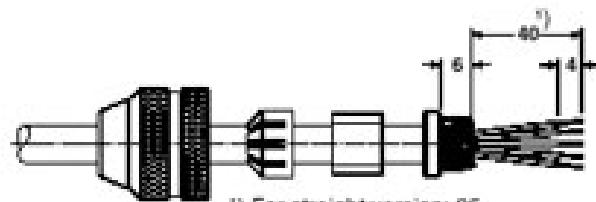
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Functional drawing

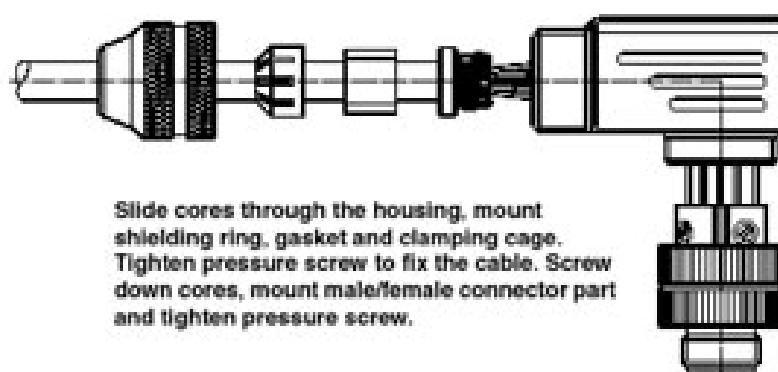
Assembly steps for M 12 male/female connector and conductor



Slide parts onto the conductor



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



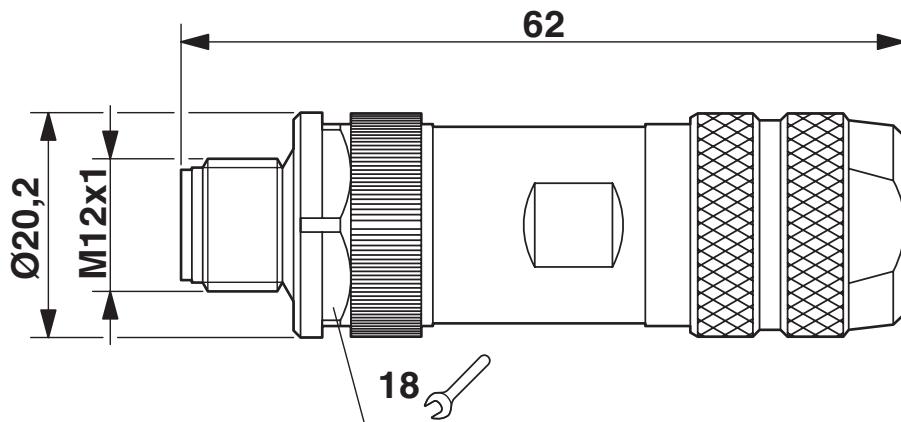
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Dimensional drawing



Plug, M12 x 1, straight, shielded

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Approvals

ⓘ To download certificates, visit the product detail page: <https://www.phoenixcontact.com/no/products/1401096>

cUL Recognized				
Approval ID: FILE E 221474				
	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

REACH SVHC

Lead 7439-92-1

China RoHS

Environmentally Friendly Use Period = 50 years

For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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