

SACC-M12FRB-5CON-PG 9-SH - Data connector



1430420

<https://www.phoenixcontact.com/no/products/1430420>

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Data connector, PROFIBUS, INTERBUS, 5-position, shielded, Socket angled M12, coding: B, Screw connection, knurl material: Brass, nickel-plated, cable gland Pg9, external cable diameter 6 mm ... 8 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	1430420
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	31BBFS
Product key	BF2CBA
Catalog page	Page 422 (C-2-2019)
GTIN	4046356321501
Weight per piece (including packing)	72.39 g
Weight per piece (excluding packing)	69 g
Customs tariff number	85366990
Country of origin	DE

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.

Mounting

Assembly instructions

The connector pin assignment can be rotated 90° to the cable outlet

Product properties

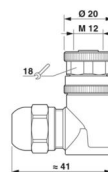
Product type	Circular connector (cable-side)
Sensor type	PROFIBUS
Number of positions	5
Application	Data
No. of cable outlets	1
Shielded	yes
Coding	B
	B
Cable outlet	angled
Pg screw connection	Pg9

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Dimensions

Dimensional drawing



Length

48.3 mm

External dimensions

Outside diameter

6 mm ... 8 mm

Housing

Diameter housing

20 mm

Material specifications

Flammability rating according to UL 94	HB
Seal material	NBR

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Material of grip body	Brass, nickel-plated
Contact material	CuZn
Contact surface material	Au
Contact carrier material	PA
Material for screw connection	Brass, 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 ... 0.5 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 (Pressure nut with coupling sleeve)

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	angled
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

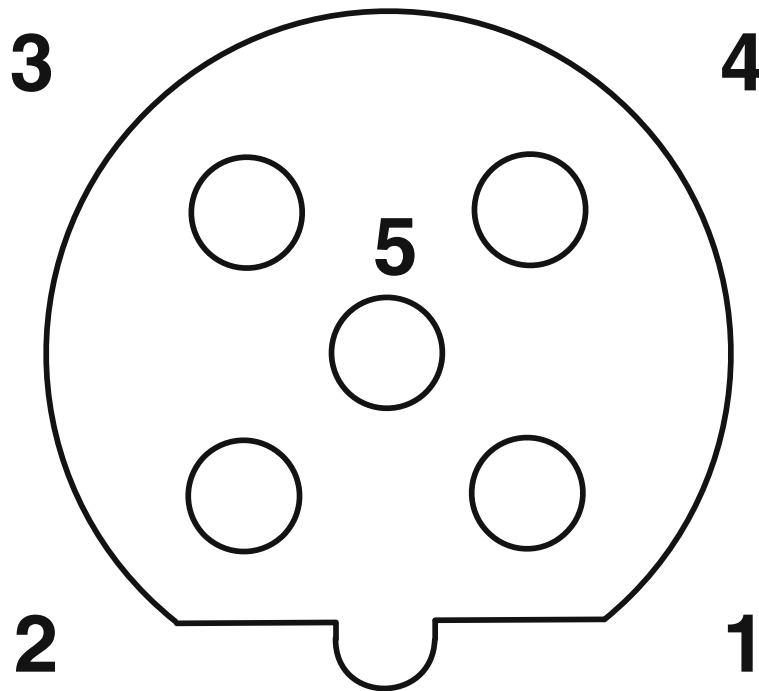
Degree of protection	IP67
Ambient temperature (operation)	-40 °C ... 85 °C (Plug / socket)

Standards and regulations

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

Drawings

Schematic diagram



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

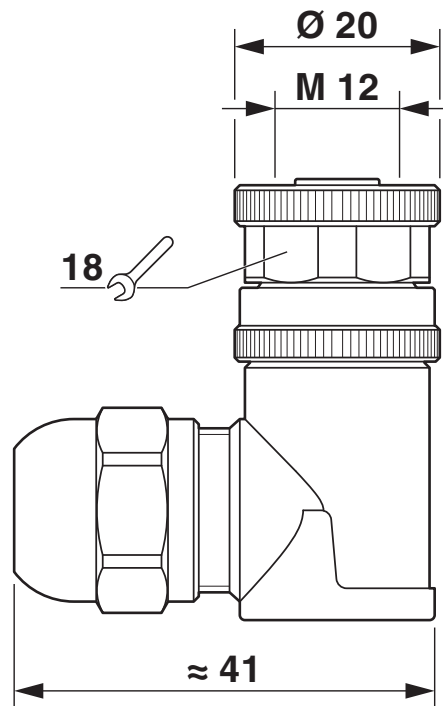
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Dimensional drawing



M12 x 1 socket, angled, shielded

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/no/products/1430420>

 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	-	-

 UL Recognized Approval ID: FILE E 221474				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
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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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PHOENIX CONTACT AS
Strømsveien 344
N-1081 Oslo
+47 22 07 68 00
norge@phoenixcontact.com