

SACC-MSB-5SC SH IB SCO - Data connector



1432800

<https://www.phoenixcontact.com/us/products/1432800>

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Data connector, INTERBUS (500 kbps), 5-position, shielded, Plug straight M12, coding: B, Spring-cage connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 4 mm ... 8 mm

Your advantages

- Safe use in the field, thanks to a high degree of protection
- Save time, thanks to installation with SPEEDCON fast locking system
- Spring-cage connection: connect more securely, even in the case of shock and vibration, thanks to high contact forces
- Reliable signal transmission – 360° shielding in environments with electromagnetic interference

Commercial data

Item number	1432800
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	BF33
Product key	AF2CFB
GTIN	4046356348454
Weight per piece (including packing)	37.6 g
Weight per piece (excluding packing)	37.6 g
Customs tariff number	85366990
Country of origin	DE

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Technical data

Mounting

Assembly note	AWG 18 wire cross section upon request
	The wires can be connected both with ferrules and without ferrules

Product properties

Product type	Circular connector (cable-side)
Sensor type	INTERBUS
Number of positions	5
No. of cable outlets	1
Shielded	yes
Coding	B

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Dimensions

External dimensions

Outside diameter	4 mm ... 8 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	CuSn
Contact surface material	Ni/Au
Contact carrier material	TPU
Material for screw connection	Zinc die-cast, nickel-plated

Connection data

Conductor connection

Connection method	Spring-cage connection
Connection cross section	0.14 mm ² ... 0.5 mm ²
Connection cross section AWG	26 ... 20
Stripping length of the individual wire	10 mm
Tightening torque	0.4 Nm (M12 knurl)
	0.8 Nm (Connector with coupling sleeve)
	3 Nm (Pressure nut with coupling sleeve)

Electrical properties

Contact resistance	≤ 8 mΩ
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Insulation resistance	≥ 100 MΩ
Nominal voltage U _N	60 V DC
	48 V AC
Nominal current I _N	4 A
Transmission speed	500 kbps

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100
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Connector

Connection 1

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

Cable/line

Signal type/category	INTERBUS, 500 kbps
Stripping length of the individual wire	10 mm

Environmental and real-life conditions

Ambient conditions

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

Standards and regulations

M12

Standard designation	M12 connector
Standards/specifications	IEC 61076-2-101
Standard designation	Shock, vibration
Standards/specifications	EN 50155:2001

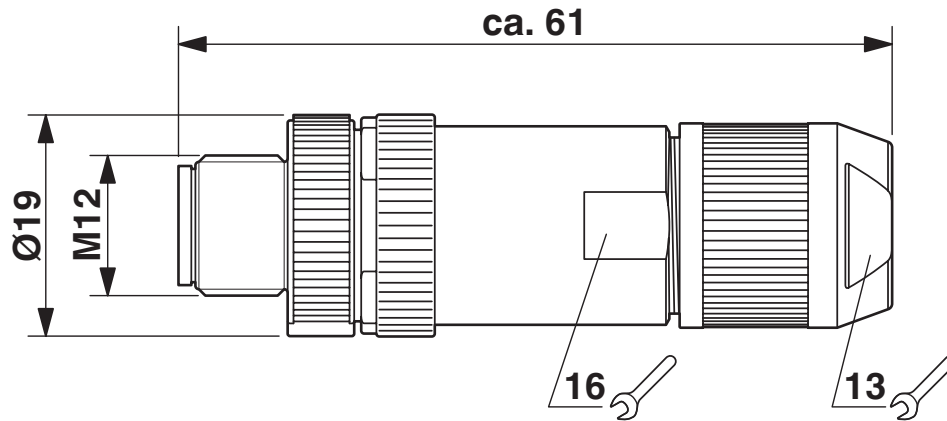
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Drawings

Dimensional drawing



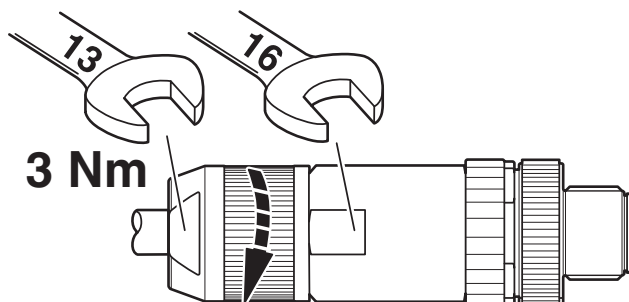
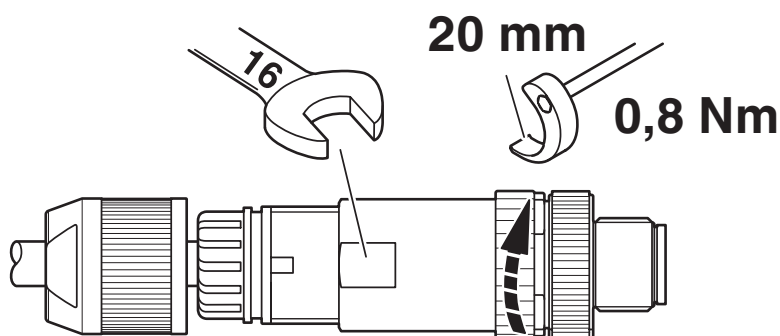
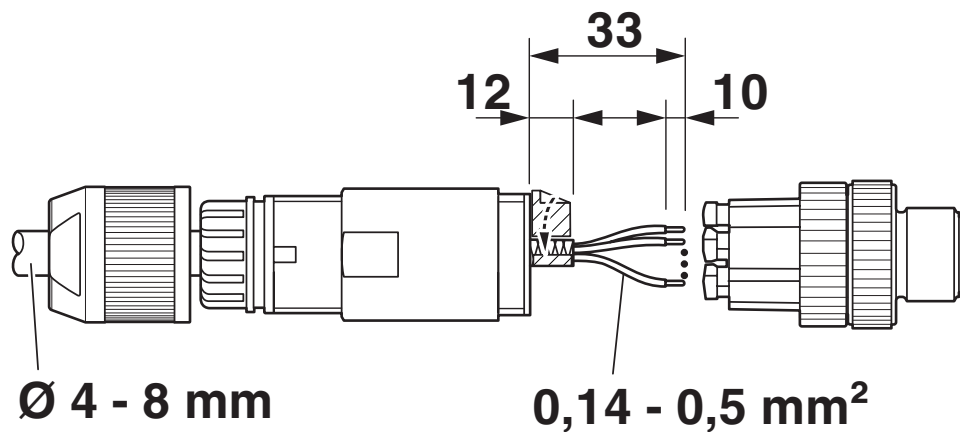
M12 SPEEDCON plug, straight, shielded

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Functional drawing



Slide the pressure nut and sleeve housing along the cable, strip the cable, shorten the shield, strip the single wires, connect the wires, in the case of a straight sleeve housing gently twist the wires together, stick the shielding foil around the shortened shield, in the case of a cable outside diameter $< 6 \text{ mm}$ stick an additional shielding foil around the wire pack, screw the sleeve housing to the plug insert, screw the pressure nut tight.

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Schematic diagram



Pin assignment M12 plug, 5-pos., B-coded

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Classifications

ECLASS

ECLASS-13.0	27440116
ECLASS-15.0	27440116

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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com