

# SACC-FSB-2SC SH PB SCO - Data connector



1432868

<https://www.phoenixcontact.com/us/products/1432868>

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Data connector, PROFIBUS (12 Mbps), 2-position, shielded, Socket 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	1432868
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	BF33
Product key	AF2CFC
GTIN	4046356348515
Weight per piece (including packing)	42.1 g
Weight per piece (excluding packing)	39.82 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)
Number of positions	2
No. of cable outlets	1
Shielded	yes
Coding	B
Cable outlet	straight

### 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 <sup>2</sup> ... 0.5 mm <sup>2</sup>
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 <sub>N</sub>	60 V DC
	48 V AC
Nominal current I <sub>N</sub>	4 A
Transmission speed	12 Mbps

## 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, 12 Mbps
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

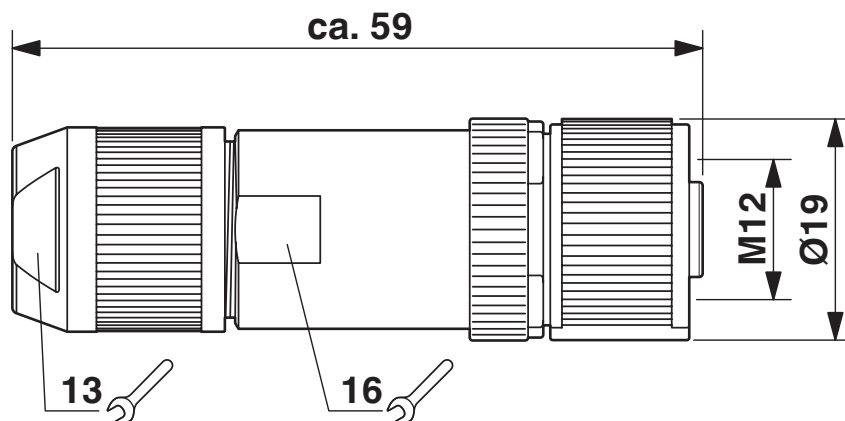
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## Drawings

Dimensional drawing



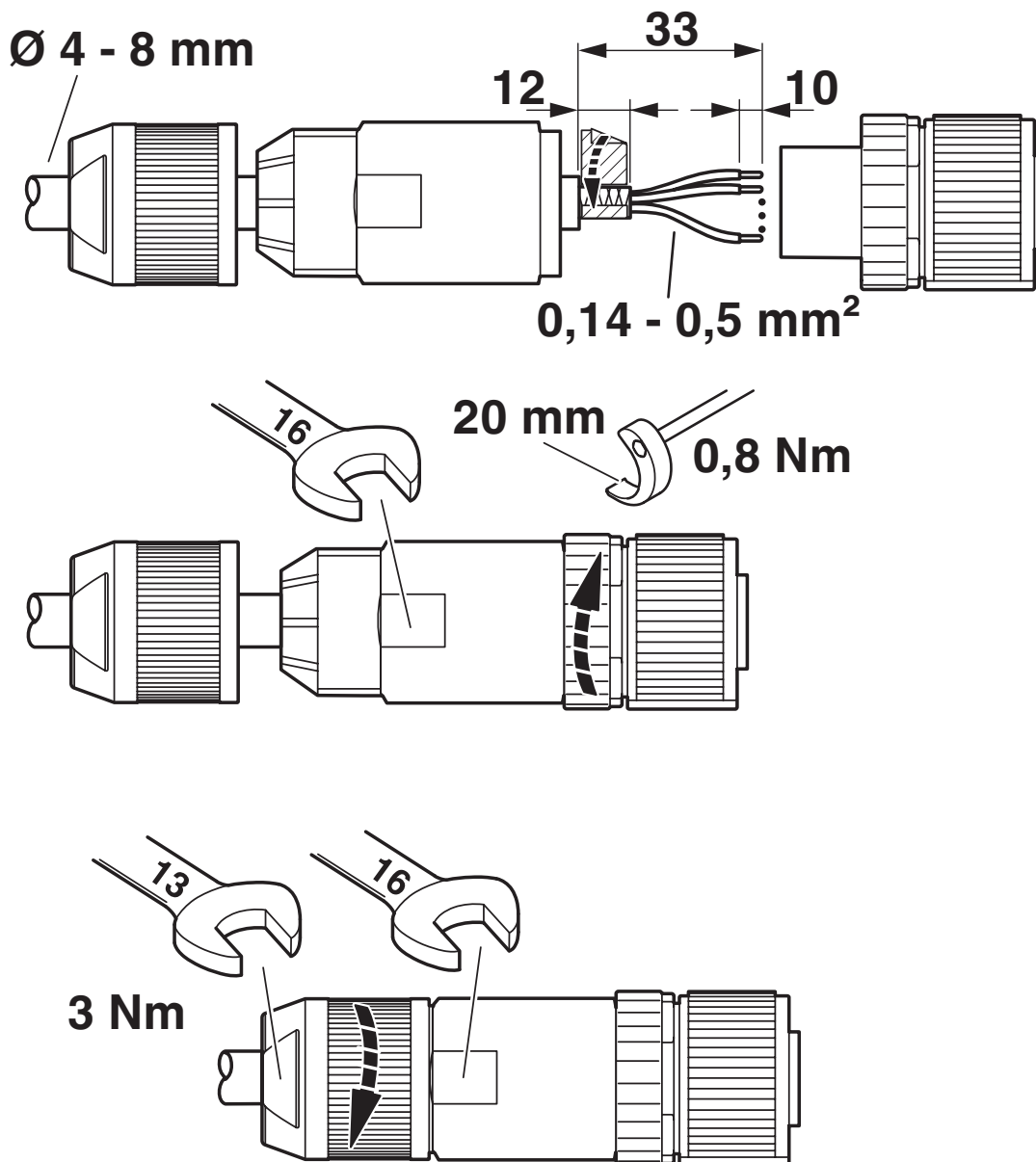
Socket M12-SPEEDCON, straight, shielded

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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 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



Connector pin assignment M12 socket, 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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