

SACC-MRB-2SC SH PB SCO - Data connector



1432855

<https://www.phoenixcontact.com/us/products/1432855>

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Data connector, PROFIBUS (12 Mbps), 2-position, shielded, Plug angled M12 SPEEDCON, 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	1432855
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	BF33
Product key	BF2CFC
Catalog page	Page 406 (C-4-2015)
GTIN	4046356348508
Weight per piece (including packing)	40.1 g
Weight per piece (excluding packing)	40.1 g
Customs tariff number	85366990
Country of origin	DE

Technical data

Mounting

Assembly note	AWG 18 wire cross section upon request
	The connector pin assignment can be rotated 45° to the cable outlet
	The wires can be connected both with ferrules and without ferrules

Product properties

Product type	Circular connector (cable-side)
Sensor type	PROFIBUS
Number of positions	2
No. of cable outlets	1
Shielded	yes
Coding	B
Cable outlet	angled

Data management status

Article revision	07
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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 mm² ... 0.5 mm²
Connection cross section AWG	26 ... 20
Stripping length of the individual wire	10 mm

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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	$\leq 8 \text{ m}\Omega$
Insulation resistance	$\geq 100 \text{ M}\Omega$
Nominal voltage U_N	60 V DC
	48 V AC
Nominal current I_N	4 A

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100
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Connector

Connection 1

Head design	Plug
Head cable outlet	angled
Head thread type	M12
Head locking type	SPEEDCON
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)	-40 °C ... 85 °C (Plug / socket)

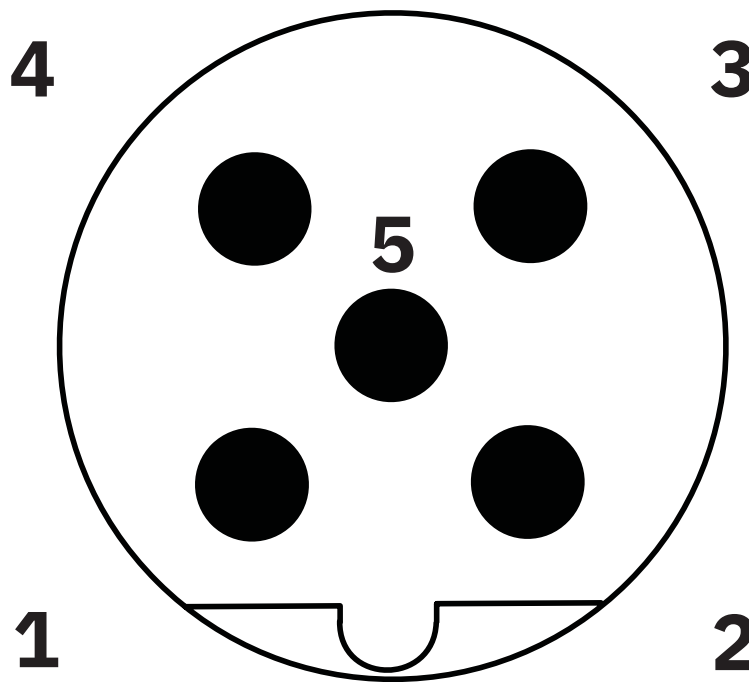
Standards and regulations

M12

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

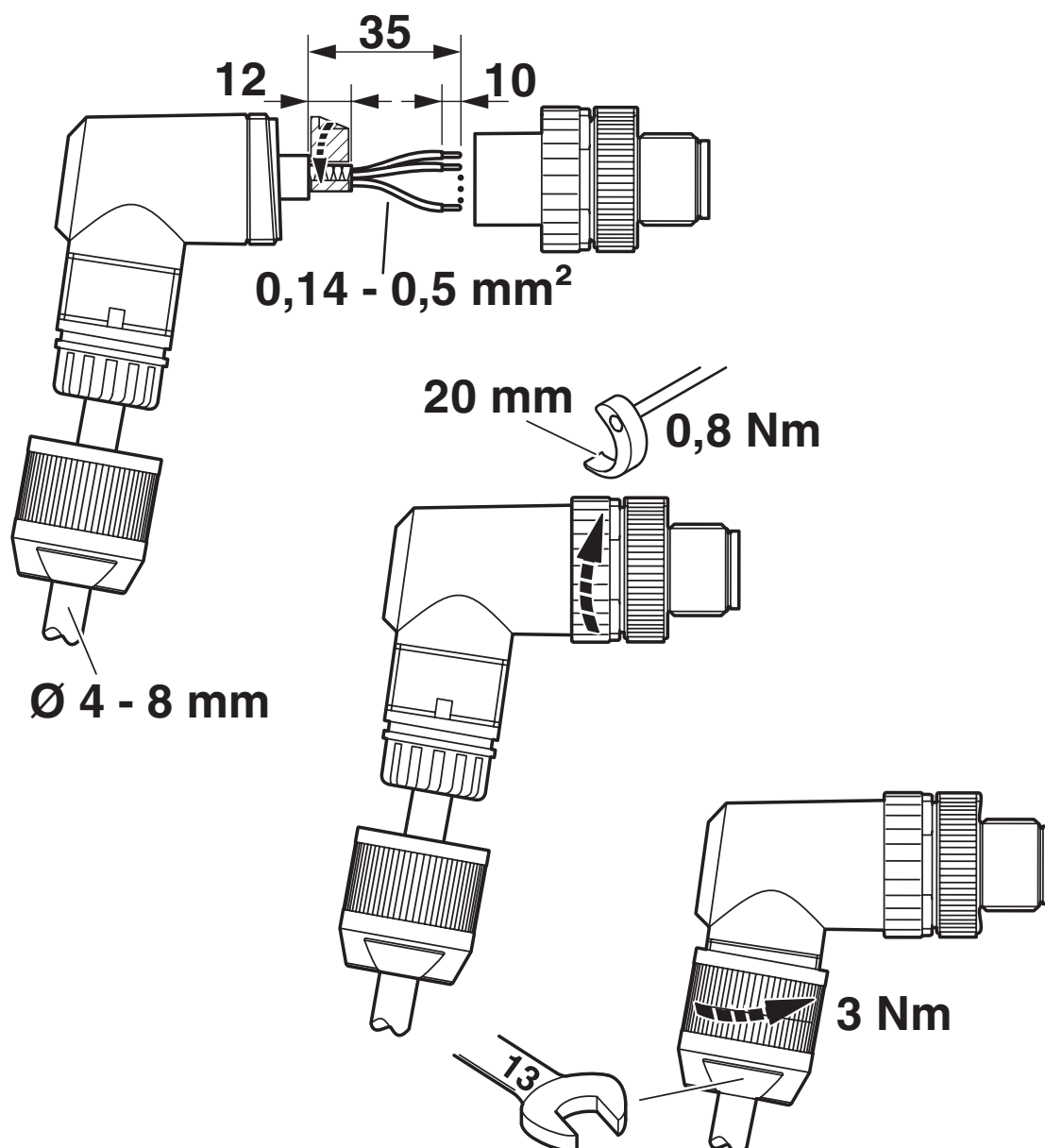
Drawings

Schematic diagram



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

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.

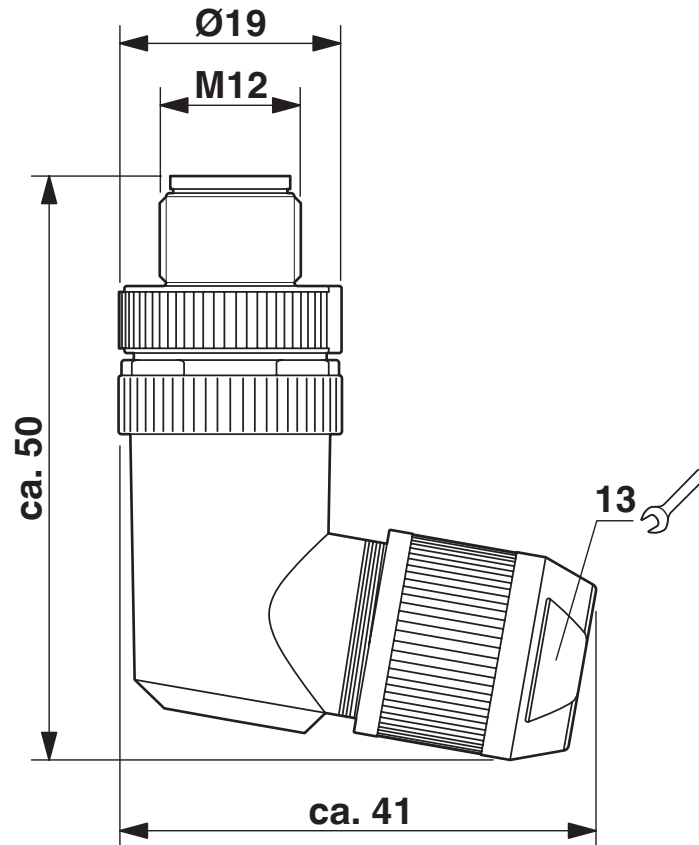
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Dimensional drawing



Plug M12 SPEEDCON, angled, shielded

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Classifications

ECLASS

ECLASS-11.0	27440102
ECLASS-13.0	27440116



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Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes, No exemptions
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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