

SACC-MSB-2SC SH PB EX - Data connector



1457733

<https://www.phoenixcontact.com/us/products/1457733>

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Bus system connector, M12 male connector, PROFIBUS, shielded, B-coded, 2-pos., spring-cage connection, metal knurl, SPEEDCON fast locking system, suitable for installation in Ex zone 2 potentially explosive areas

Your advantages

- Safe use in the field, thanks to a high degree of protection
- Reliable signal transmission – 360° shielding in environments with electromagnetic interference
- Save time, thanks to installation with SPEEDCON fast locking system

Commercial data

Item number	1457733
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	AF2CFC
GTIN	4046356627177
Weight per piece (including packing)	37.5 g
Weight per piece (excluding packing)	37.5 g
Country of origin	DE

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Technical data

Mounting

Assembly note	AWG 18 wire cross section upon request
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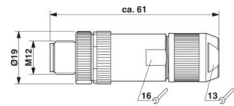
Product properties

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

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Dimensions

Dimensional drawing	
Length	61 mm

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	PA 6.6
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

Electrical properties

Contact resistance	≤ 8 mΩ
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Insulation resistance	≥ 100 MΩ
Nominal voltage U _N	30 V DC
Nominal current I _N	2 A

Connector

Connection 1

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

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP67
Ambient temperature (operation) (male connector/female connector)	-30 °C ... 75 °C (Plug / socket)

Standards and regulations

M12

Standard designation	M12 connector
Standards/specifications	IEC 61076-2-101
Standard designation	ATEX Directive 94/9/EC
Standards/specifications	IEC 60079-0 IEC 60079-11 IEC 60079-15
Standard designation	Declaration of conformity
Standards/specifications	QSI 10 ATEX 2018U II 3G Ex nA II Gc
Standard designation	Shock, vibration
Standards/specifications	EN 50155:2001

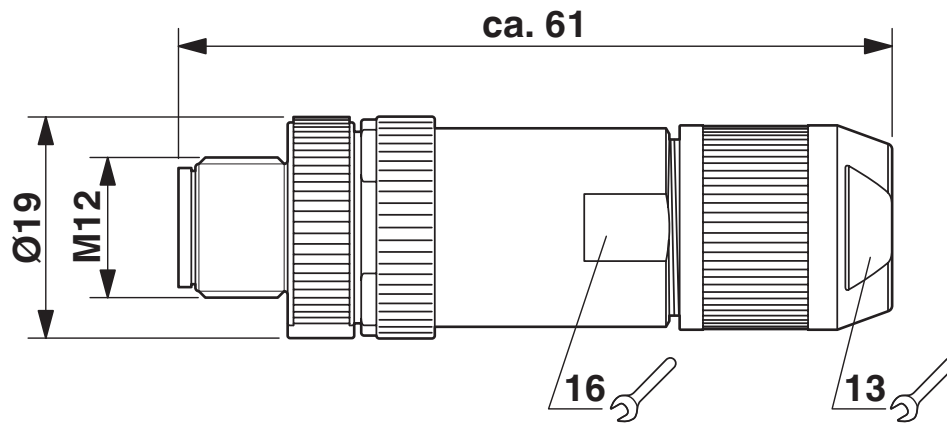
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Drawings

Dimensional drawing



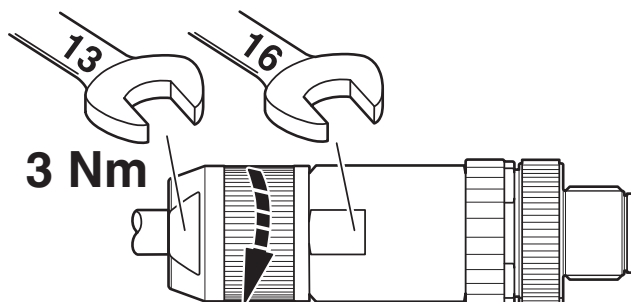
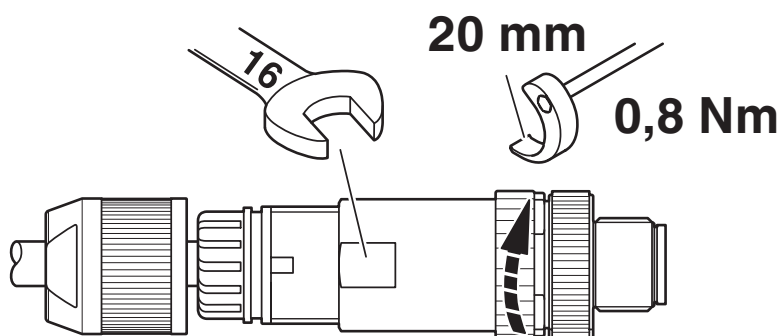
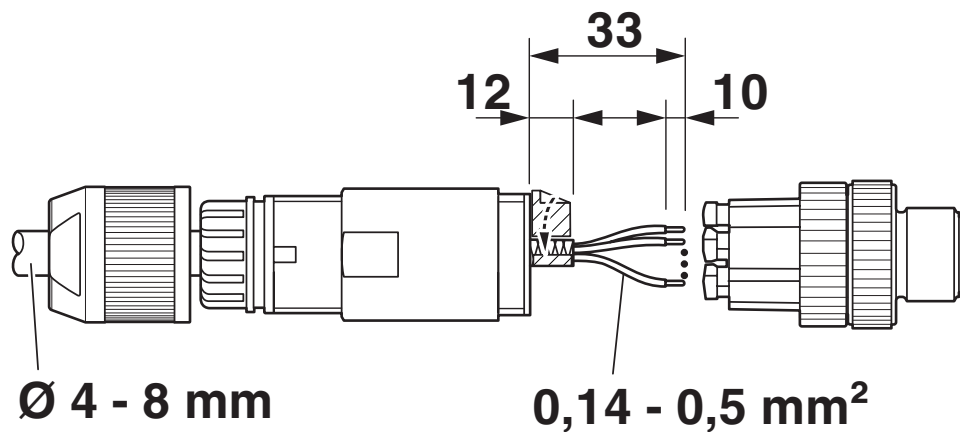
M12 SPEEDCON plug, straight, shielded

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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 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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