SACC-M12MS-4SC SH - Connector

1513253

https://www.phoenixcontact.com/us/products/1513253

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Connector, 4-position, shielded, Plug straight M12, coding: A, Spring connection, knurl material: Brass, nickel-plated, external cable diameter 4 mm ... 8 mm

Your advantages

- Safe use in the field, thanks to a high degree of protection
- 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	1513253
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	BF33
Product key	AF2CFA
GTIN	4017918946623
Weight per piece (including packing)	40.26 g
Weight per piece (excluding packing)	40.2 g
Customs tariff number	85366990
Country of origin	DE

Technical data

Mounting

Assembly note	The wires can be connected both with ferrules and without ferrules

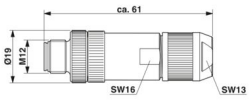
Product properties

Product type	Circular connector (cable-side)
Number of positions	4
No. of cable outlets	1
Shielded	yes
Coding	A

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Dimensions

Dimensional drawing	
Wrench size, union nut	13 mm

External dimensions

Outside diameter	4 mm ... 8 mm

Material specifications

Flammability rating according to UL 94	V0
Material grommet GRP	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	Brass, nickel-plated

Connection data

Conductor connection

Connection method	Spring connection
Connection cross section	0.14 mm² ... 0.5 mm²
Connection cross section AWG	26 ... 20
Stripping length of the individual wire	10 mm
	0.4 Nm (M12 knurl)

Tightening torque	0.8 Nm (Connector with coupling sleeve)
	3 Nm (Pressure nut with coupling sleeve)

Electrical properties

Contact resistance	≤ 8 mΩ
Insulation resistance	≥ 100 MΩ
Nominal voltage U_N	60 V DC
	48 V AC
Nominal current I_N	4 A

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100

Connector

Connection 1

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

Environmental and real-life conditions

Ambient conditions

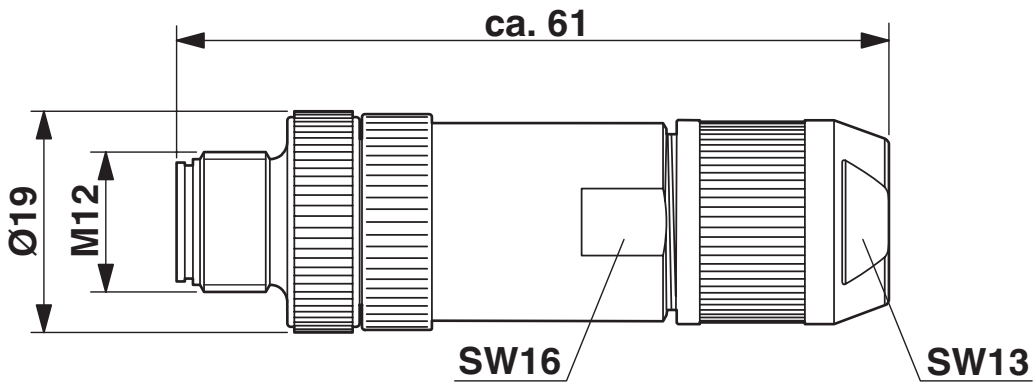
Degree of protection	IP67
Ambient temperature (operation) (male connector/female connector)	-40 °C ... 85 °C (Plug / socket)

Standards and regulations

Standard designation	M12 connector
Standards/specifications	IEC 61076-2-101
Standard designation	Shock, vibration
Standards/specifications	EN 50155:2001
Note	for conductor cross-section of 0.14 mm² ... 0.34 mm²

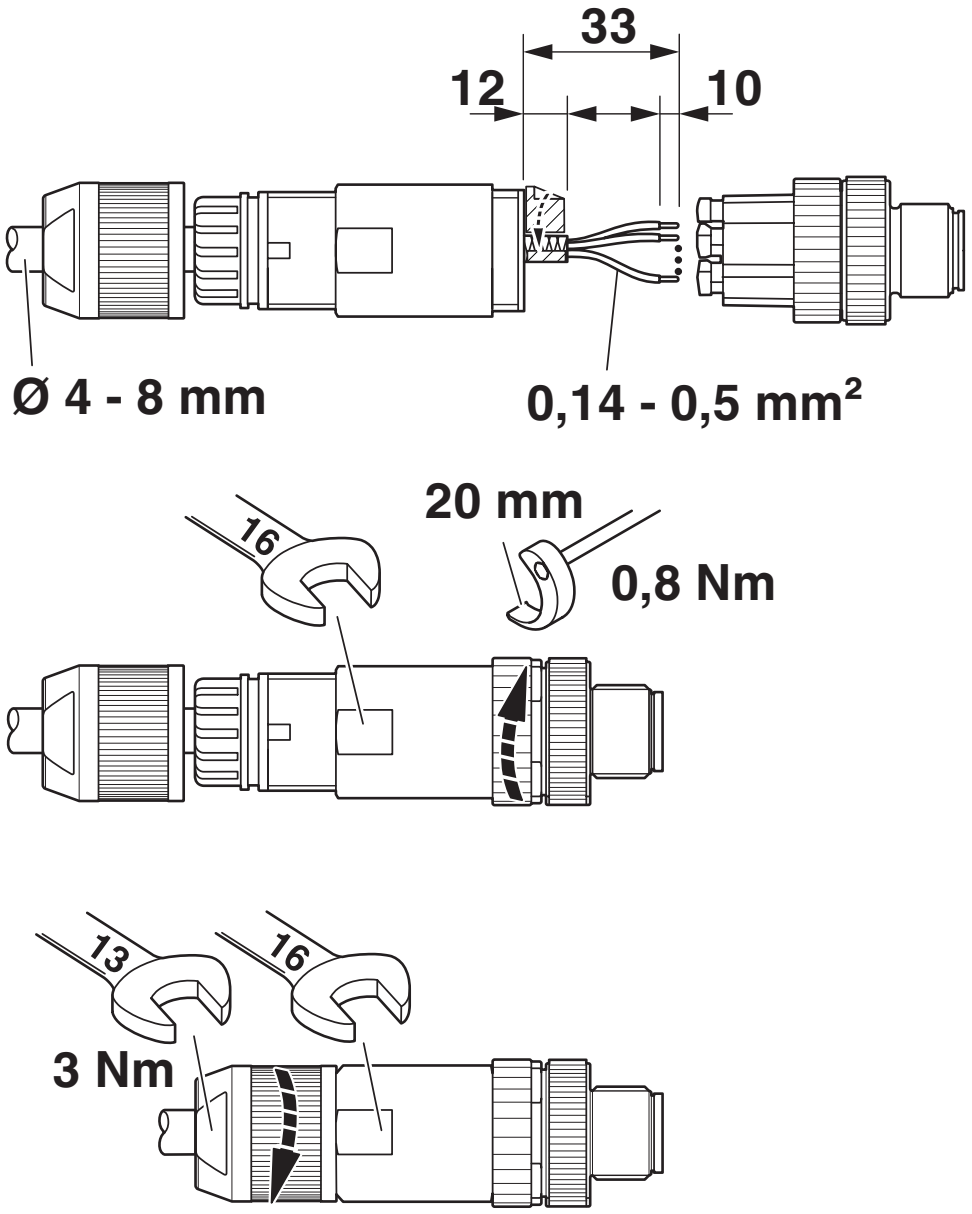
Drawings

Dimensional drawing



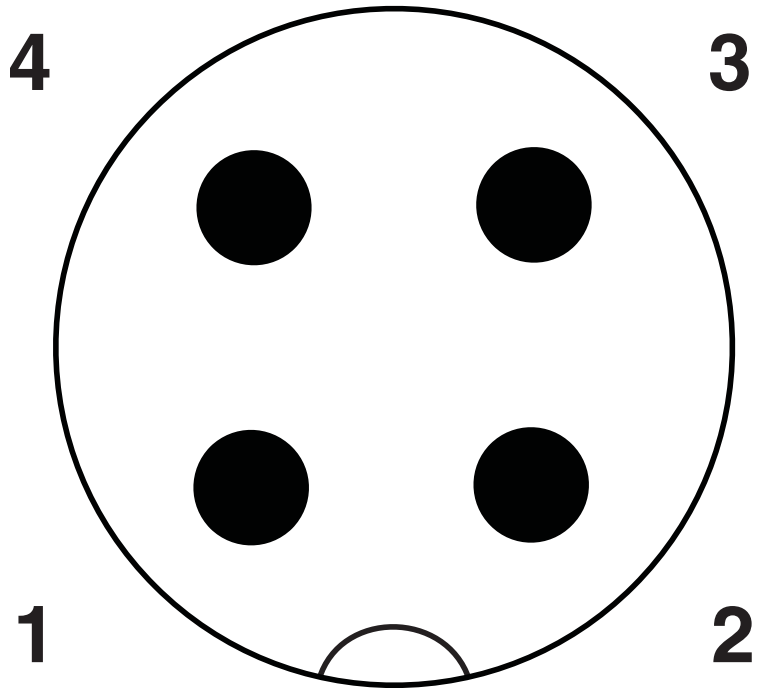
Plug, M12 x 1, straight, shielded

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.

Schematic diagram



Pin assignment M12 plug, 4-pos., A-coded, view plug side

Classifications

ECLASS

ECLASS-13.0	27440116
ECLASS-15.0	27440116

Environmental product compliance

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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