

# 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-cage 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

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## Technical data

### Mounting

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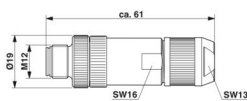
### Product properties

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
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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	Brass, 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
	0.4 Nm (M12 knurl)

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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
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## Connector

### Connection 1

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

## Cable/line

Stripping length of the individual wire	10 mm
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## 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 mm <sup>2</sup> ... 0.34 mm <sup>2</sup>

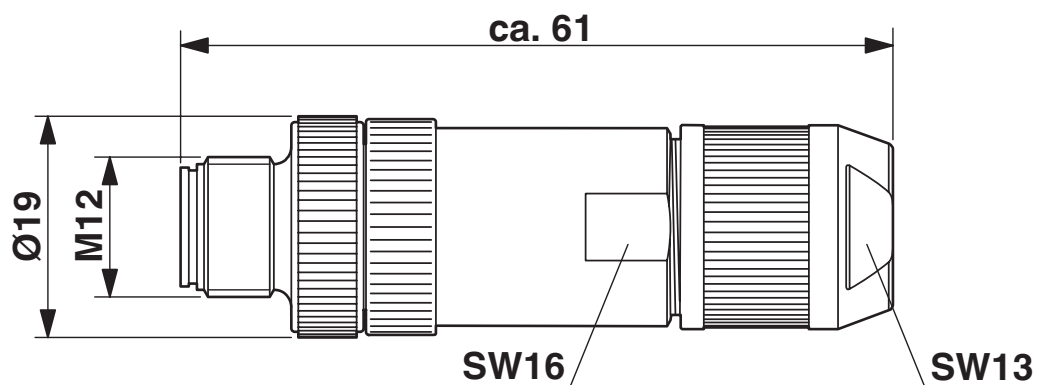
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## Drawings

Dimensional drawing



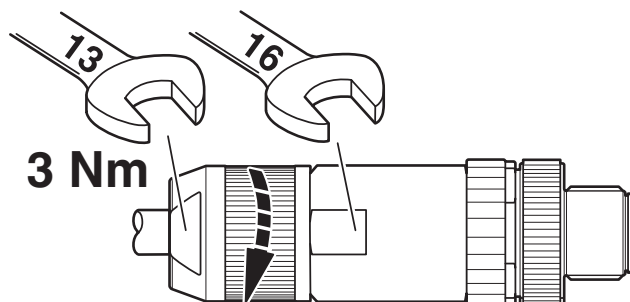
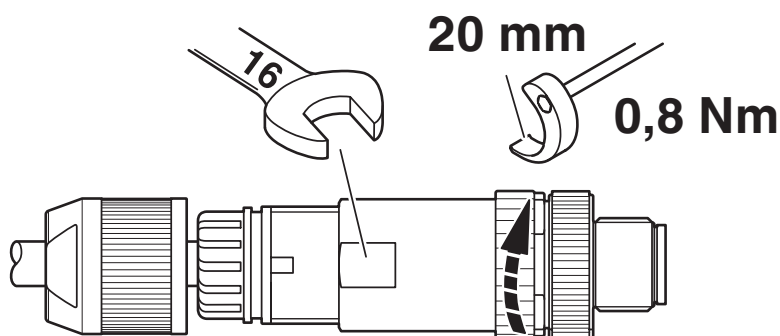
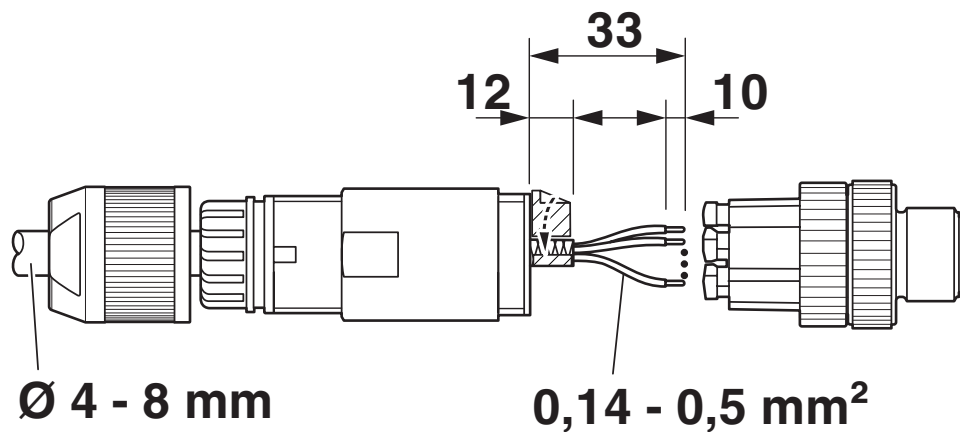
Plug, M12 x 1, straight, shielded

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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, 4-pos., A-coded, view plug side

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## Classifications

### ECLASS

ECLASS-13.0	27440116
ECLASS-15.0	27440116

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