

SACC-M12MS-4SC SH CCL - Data connector



1559767

<https://www.phoenixcontact.com/us/products/1559767>

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Data connector, CC link, 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 | 1559767 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | BF33 |
| Product key | AF2CFF |
| GTIN | 4046356309288 |
| Weight per piece (including packing) | 39.8 g |
| Weight per piece (excluding packing) | 39.7 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 |
|---------------|--|

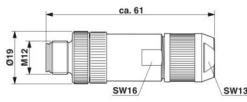
Product properties

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

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 |
| 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 ² ... 0.5 mm ² |
| 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) |

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 |
|-----------------------------|------------|

Connector

Connection 1

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

Cable/line

| | |
|---|---------|
| Signal type/category | CC link |
| 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

| | |
|--------------------------|-----------------|
| Standard designation | M12 connector |
| Standards/specifications | IEC 61076-2-101 |

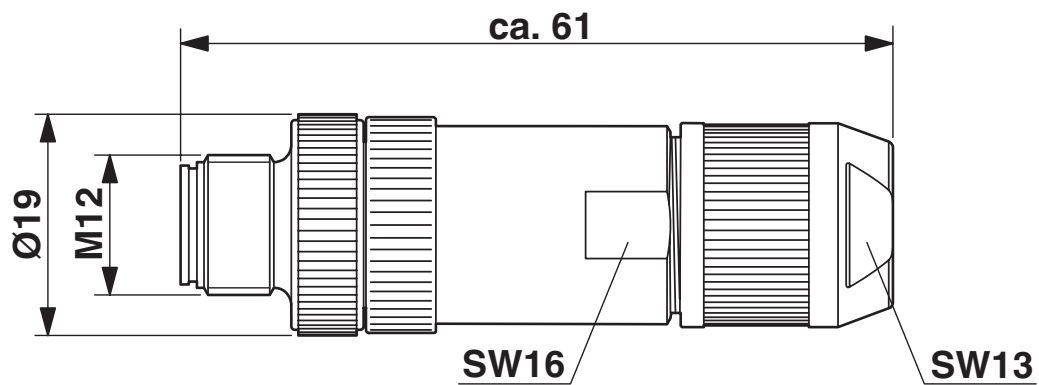
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Drawings

Dimensional drawing



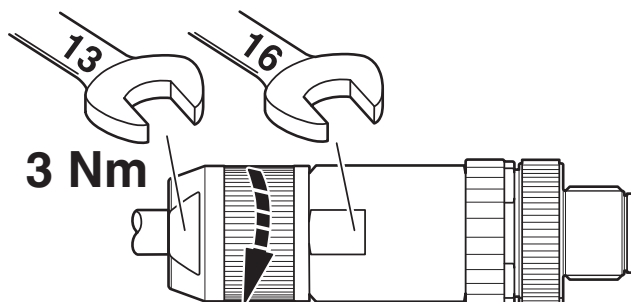
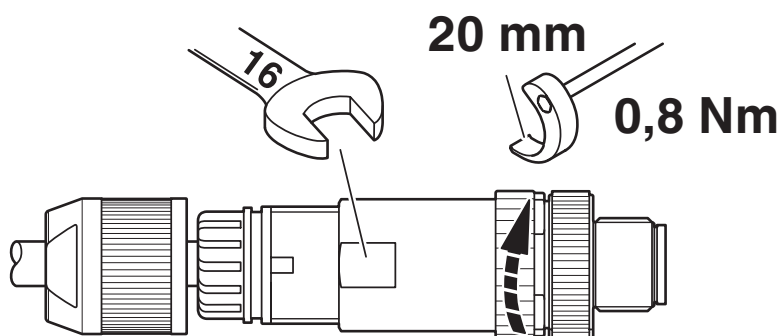
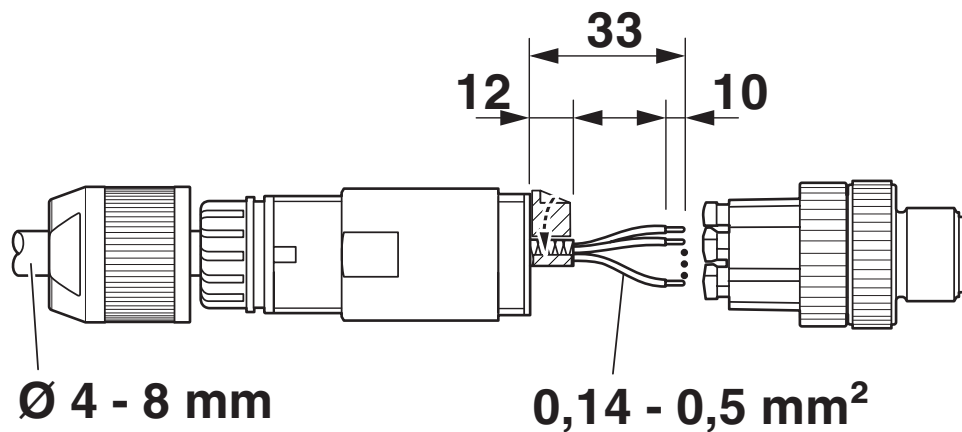
Plug, M12 x 1, straight, shielded

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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 $< 6 \text{ mm}$ 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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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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