

SACC-FSB-5SC SH SCO - Connector



1432703

<https://www.phoenixcontact.com/us/products/1432703>

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Connector, 5-position, shielded, Socket straight 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 | 1432703 |
| Packing unit | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | BF33 |
| Product key | AF2CFA |
| GTIN | 4046356348393 |
| Weight per piece (including packing) | 42.7 g |
| Weight per piece (excluding packing) | 42 g |
| Customs tariff number | 85366990 |
| Country of origin | DE |

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Technical data

Mounting

| | |
|---------------|--|
| Assembly note | AWG 18 wire cross section upon request |
| | The wires can be connected both with ferrules and without ferrules |

Product properties

| | |
|----------------------|---------------------------------|
| Product type | Circular connector (cable-side) |
| Number of positions | 5 |
| No. of cable outlets | 1 |
| Shielded | yes |
| Coding | B |
| Cable outlet | straight |

Insulation characteristics

| | |
|----------------------|----|
| Overvoltage category | II |
| Degree of pollution | 3 |

Dimensions

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 | TPU |
| 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 |
| Stripping length of the individual wire | 10 mm |
| 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 | ≤ 8 mΩ |
|--------------------|--------|

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| | |
|--------------------------------|----------|
| 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 | Socket |
| Head cable outlet | straight |
| Head thread type | M12 |
| Head locking type | SPEEDCON |
| Coding | B |

Cable/line

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

M12

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

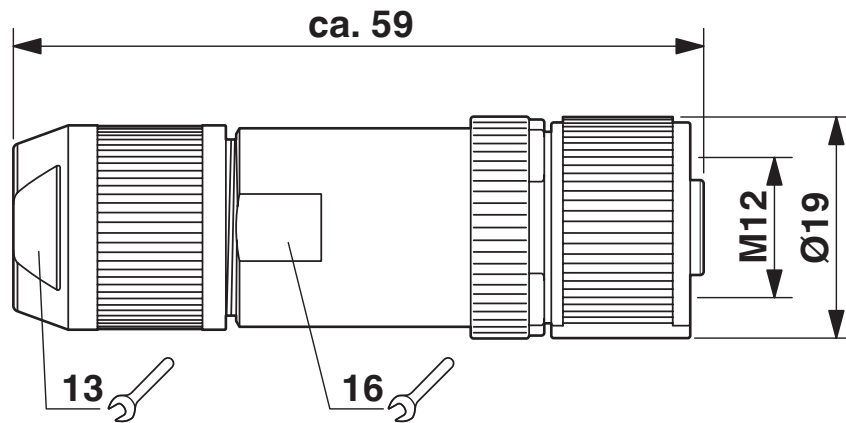
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Drawings

Dimensional drawing



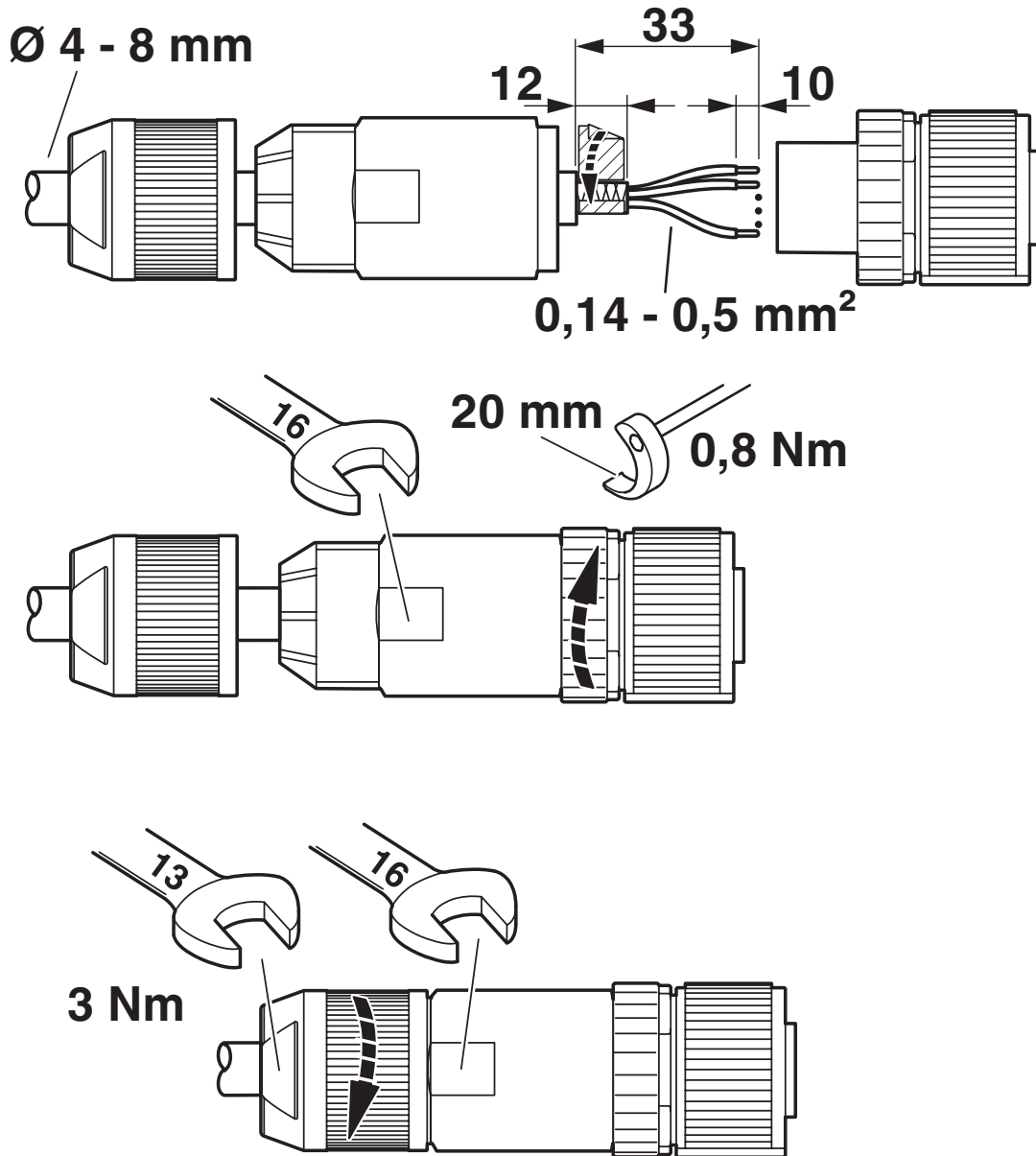
Socket M12-SPEEDCON, straight, shielded

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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 socket, 5-pos., B-coded, female side

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

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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