

## Bus system connector - SACC-M12MRB-5CON-PG 9-SH - 1430417

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Bus system plug, plug angled, 5-pos., M12 shielded, gold-plated contacts, B-coded, screw connection, metal knurl, cable gland Pg9

### Product Features

- ✓ Safe use in the field, thanks to a high degree of protection
- ✓ Flexible: connectors for on-site assembly
- ✓ Screw connection: proven connection technology for a large selection of different conductors
- ✓ Reliable signal transmission - 360° shielding in environments with electromagnetic interference



### Key commercial data

|                  |               |
|------------------|---------------|
| package_quantity | 1             |
| GTIN             | 4046356321495 |

### Technical data

#### Dimensions

|                                         |               |
|-----------------------------------------|---------------|
| External diameter                       | 6 mm ... 8 mm |
| Stripping length of the sheath          | 40 mm         |
| Stripping length of the individual wire | 5 mm          |

#### Ambient conditions

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

#### General

|                        |                               |
|------------------------|-------------------------------|
| Rated current at 40°C  | 4 A                           |
| Rated voltage          | 60 V                          |
| Number of positions    | 5                             |
| Contact resistance     | ≤ 3 mΩ                        |
| Insulation resistance  | ≥ 100 MΩ                      |
| Coding                 | B - inverse                   |
| Standards/regulations  | M12 connector IEC 61076-2-101 |
| Status display         | No                            |
| Surge voltage category | II                            |

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## Technical data

### General

|                             |                                                                    |
|-----------------------------|--------------------------------------------------------------------|
| Pollution degree            | 3                                                                  |
| Connection method           | Screw connection                                                   |
| Conductor cross section     | 0.25 mm² ... 0.75 mm²                                              |
| AWG conductor cross section | 24 ... 18                                                          |
| Insertion/withdrawal cycles | ≥ 100                                                              |
| Torque                      | 0.4 Nm (M12 knurl)                                                 |
| Torque                      | 0.2 Nm (Screw terminal blocks)                                     |
| Torque                      | 0.8 Nm ... 1 Nm (Pressure screw)                                   |
| Tightening torque           | Screw plug insert with sleeve housing as far it will go            |
| Assembly instructions       | The wires can be connected both with ferrules and without ferrules |

### Material

|                                         |                              |
|-----------------------------------------|------------------------------|
| Inflammability class according to UL 94 | HB                           |
| Contact material                        | CuZn                         |
| Contact surface material                | Au                           |
| Contact carrier material                | PA 66                        |
| Material of grip body                   | Zinc die-cast, nickel-plated |
| Material, knurls                        | Nickel-plated brass          |
| Sealing material                        | NBR                          |

## classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27250313 |
| eCl@ss 4.1 | 27250313 |
| eCl@ss 5.0 | 27143423 |
| eCl@ss 5.1 | 27143423 |
| eCl@ss 6.0 | 27143423 |
| eCl@ss 7.0 | 27449001 |
| eCl@ss 8.0 | 27449001 |

### ETIM

|          |          |
|----------|----------|
| ETIM 3.0 | EC002062 |
| ETIM 4.0 | EC002062 |
| ETIM 5.0 | EC002062 |

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 31251501 |
| UNSPSC 7.0901 | 31251501 |
| UNSPSC 11     | 31251501 |
| UNSPSC 12.01  | 31251501 |
| UNSPSC 13.2   | 31251501 |

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### approvals

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GOST /

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### Approval details



### accessories

#### Torque tool

TSD 04 SAC - 1208429



TSD-M 1,2NM - 1212224



#### Screwdriver tools

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SACC BIT M12-D20 - 1208445



TSD-M SAC-BIT ADAPTER - 1212600



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accessories

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### Protective cap

PROT-M12 FS-PA-CHAIN - 1430873



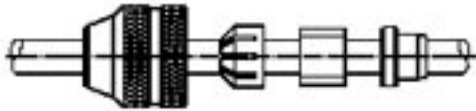
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### Drawings

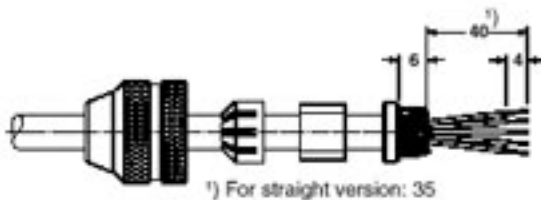
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Functional drawing

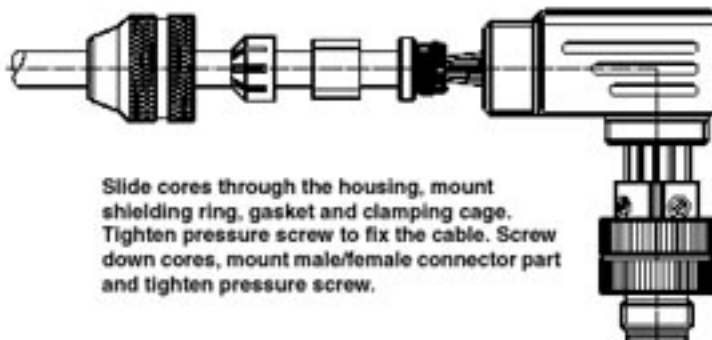
### Assembly steps for M 12 male/female connector and conductor



Slide parts onto the conductor



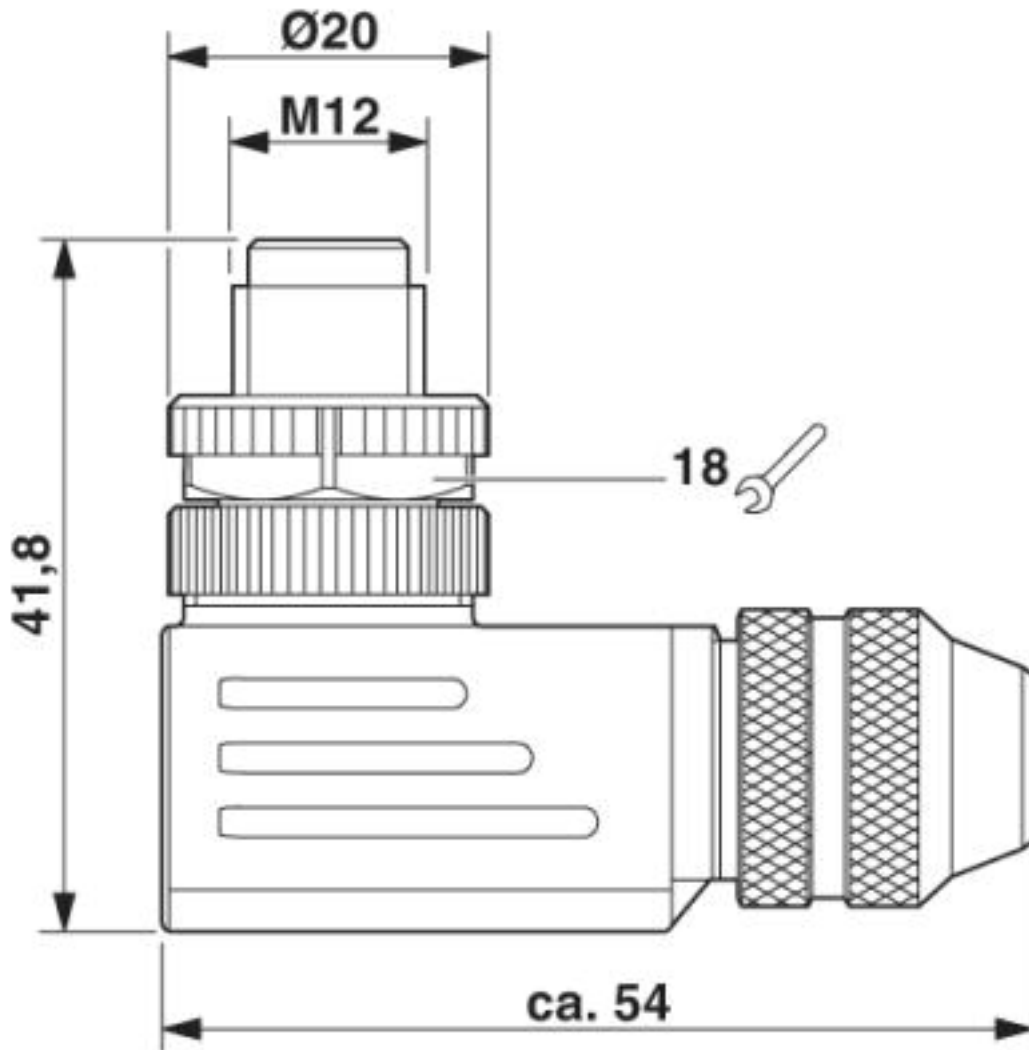
Strip conductor, widen shield and lay around the shielding ring, cut off projecting mesh.



Slide cores through the housing, mount shielding ring, gasket and clamping cage. Tighten pressure screw to fix the cable. Screw down cores, mount male/female connector part and tighten pressure screw.

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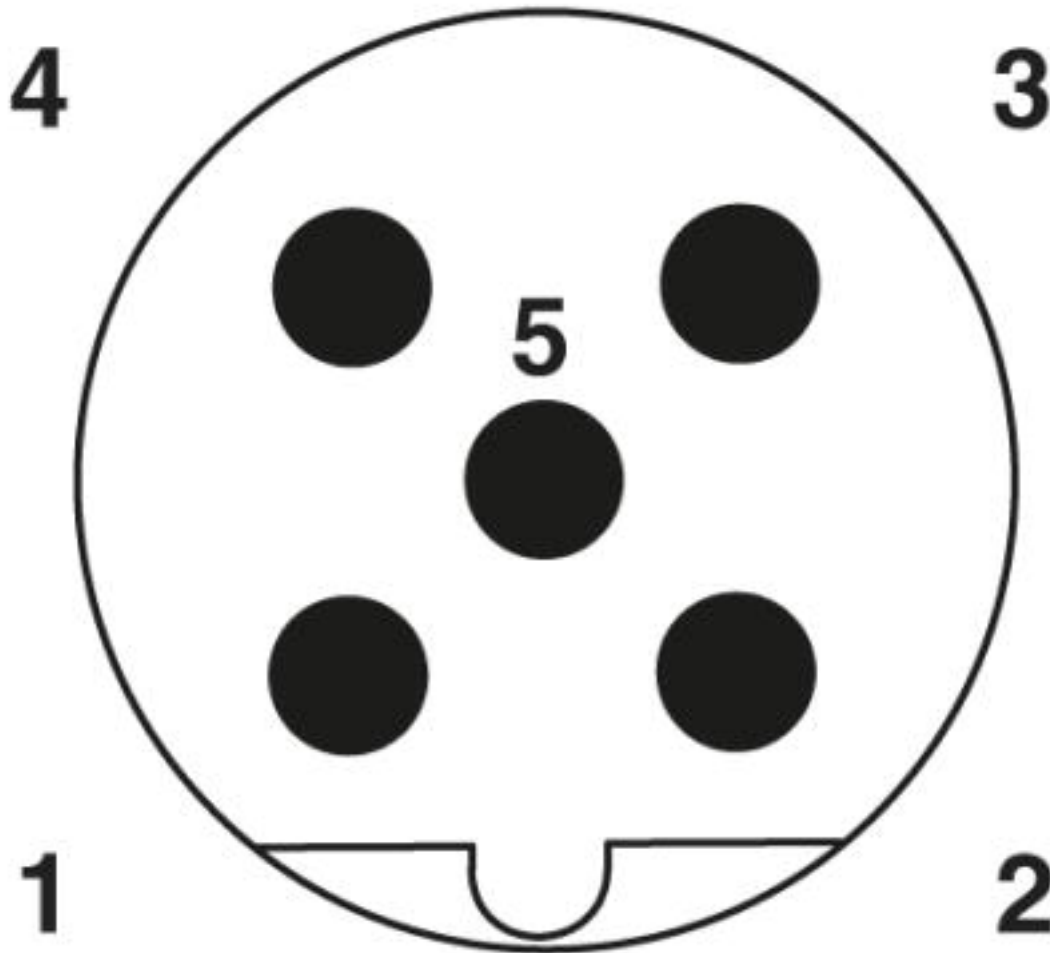
Dimensioned drawing



M12 x 1 male plug, angled, shielded

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Schematic diagram



Pin assignment M12 socket, 5-pos., B-coded, female side

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