

## Bus system connector - SACC-M12FRB-5CON-PG 9-SH - 1430420

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Bus system connector, PROFIBUS, 5-position, shielded, Socket angled M12, B-coded, Screw connection, Knurl material: Zinc die-cast, nickel-plated, Cable gland Pg9, External cable diameter 6 mm ... 8 mm



### 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

|                                      |          |
|--------------------------------------|----------|
| Packing unit                         | 1 pc     |
| Weight per Piece (excluding packing) | 60.0 g   |
| Custom tariff number                 | 85366990 |
| Country of origin                    | Germany  |

### 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 DC |
|                       | 48 V AC |

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## Technical data

### General

|                             |                                                                                                             |
|-----------------------------|-------------------------------------------------------------------------------------------------------------|
| Number of positions         | 5                                                                                                           |
| Insulation resistance       | $\geq 100 \text{ M}\Omega$                                                                                  |
| Coding                      | B - inverse                                                                                                 |
| Standards/regulations       | M12 connector IEC 61076-2-101                                                                               |
| Signal type/category        | PROFIBUS                                                                                                    |
| Status display              | No                                                                                                          |
| Overvoltage category        | II                                                                                                          |
| Degree of pollution         | 3                                                                                                           |
| Connection method           | Screw connection                                                                                            |
| Conductor cross section     | 0.25 mm <sup>2</sup> ... 0.75 mm <sup>2</sup>                                                               |
| Conductor cross section AWG | 24 ... 18                                                                                                   |
| Insertion/withdrawal cycles | $\geq 100$                                                                                                  |
| Torque                      | 0.4 Nm (M12 knurl)<br>0.2 Nm (Screw terminal blocks)<br>0.8 Nm ... 1 Nm (Pressure nut with coupling sleeve) |
| 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

|                                        |                              |
|----------------------------------------|------------------------------|
| Flammability rating according to UL 94 | HB                           |
| Contact material                       | CuZn                         |
| Contact surface material               | Au                           |
| Contact carrier material               | PA                           |
| Material of grip body                  | Zinc die-cast, nickel-plated |
| Material, knurls                       | Zinc die-cast, nickel-plated |
| Sealing material                       | NBR                          |

### Standards and Regulations

|                                        |                 |
|----------------------------------------|-----------------|
| Standard designation                   | M12 connector   |
| Standards/regulations                  | IEC 61076-2-101 |
| Connection in acc. with standard       | CUL             |
| Flammability rating according to UL 94 | HB              |

## Classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27250313 |
| eCl@ss 4.1 | 27250313 |

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#### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 5.0 | 27143423 |
| eCl@ss 5.1 | 27143423 |
| eCl@ss 6.0 | 27143423 |
| eCl@ss 7.0 | 27449001 |
| eCl@ss 8.0 | 27440104 |
| eCl@ss 9.0 | 27440102 |

#### 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 |

### Approvals

#### Approvals

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#### Approvals

UL Recognized / cUL Recognized / EAC / EAC

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#### Ex Approvals

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#### Approvals submitted

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#### Approval details

|                                                                                                   |
|---------------------------------------------------------------------------------------------------|
| UL Recognized  |
|---------------------------------------------------------------------------------------------------|

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### Approvals

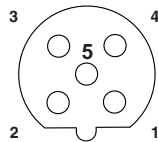
cUL Recognized 

EAC

EAC

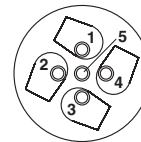
### Drawings

Schematic diagram



Pin assignment M12 male connector, 5-pos., B-coded, male side

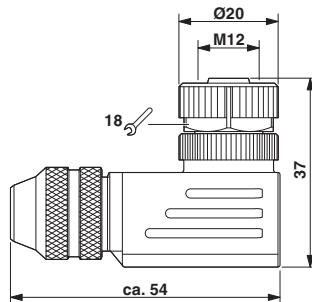
Schematic diagram



Cable connection side M12 (screw connection)

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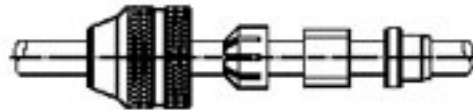
Dimensional drawing



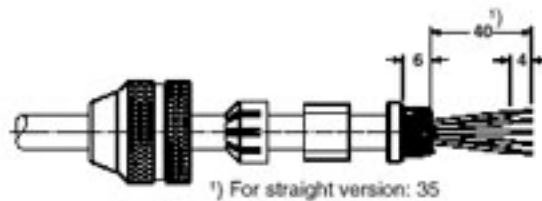
M12 x 1 socket, angled, shielded

Functional drawing

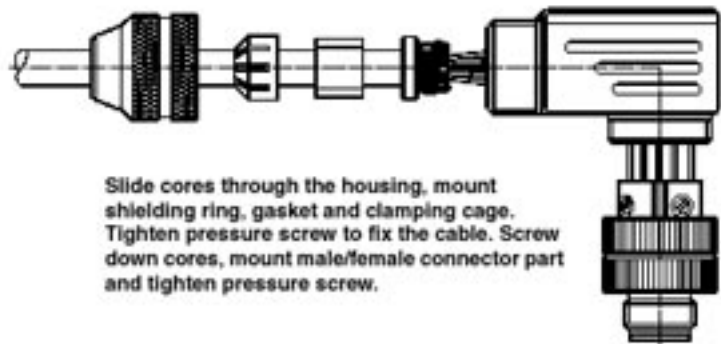
### Assembly steps for M 12 male/female connector and conductor



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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