

## Bus system connector - SACC-M12FSB-5CON-PG9 SH XL PB - 1401097

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Bus system connector, female connector, straight, 5-pos., M12, shielded, gold-plated contacts, B-coded, screw connection, metal knurl, Pg11 cable gland

### 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 PCE   |
| GTIN                 | <br>4 046356 523356 |
| Custom tariff number | 85366990  |
| Country of origin    | GERMANY   |

### Technical data

#### Dimensions

|                   |                |
|-------------------|----------------|
| External diameter | 8 mm ... 10 mm |
|-------------------|----------------|

#### Ambient conditions

|                      |      |
|----------------------|------|
| Degree of protection | IP67 |
|----------------------|------|

#### General

|                       |      |
|-----------------------|------|
| Rated current at 40°C | 4 A  |
| Rated voltage         | 60 V |
| Number of positions   | 5    |

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## Technical data

### General

|                             |  |
|-----------------------------|--|
| Contact resistance          | ≤ 3 mΩ   |
| Insulation resistance       | ≥ 100 MΩ   |
| Coding                      | B - inverse  |
| Signal type/category        | PROFIBUS   |
| Status display              | No   |
| Surge voltage category      | II   |
| Pollution degree            | 3  |
| Connection method           | Screw connection   |
| Conductor cross section     | 0.25 mm <sup>2</sup> ... 0.75 mm <sup>2</sup>                      |
| AWG conductor cross section | 24 ... 18  |
| Insertion/withdrawal cycles | ≥ 100  |
| Torque                      | 1 Nm ... 1.4 Nm (Pressure nut)<br>0.2 Nm (Screw terminal blocks)   |
| 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 | V0                           |
| Contact material                        | CuSn                         |
| 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

### ETIM

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

### UNSPSC

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

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## 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 |

## Approvals

Approvals

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Approvals

GOST

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Ex Approvals

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Approvals submitted

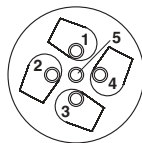
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Approval details

GOST

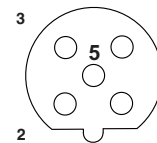
## Drawings

Schematic diagram



Cable connection side M12 (screw connection)

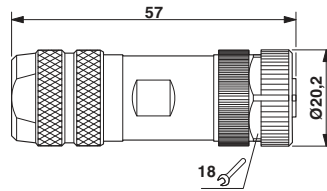
Schematic diagram



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

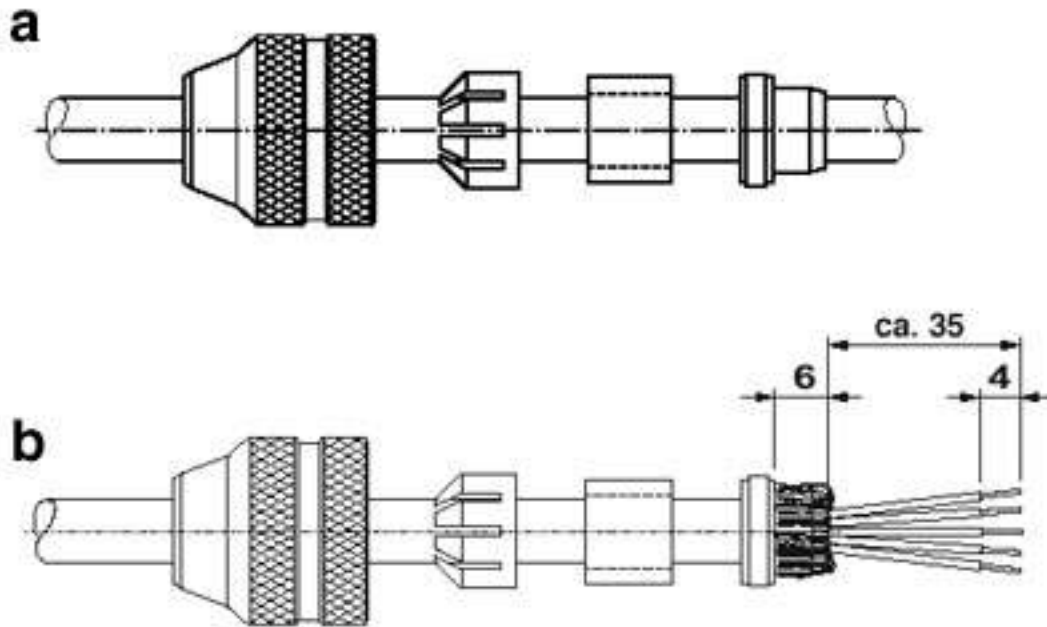
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Dimensioned drawing



M12 x 1 socket, straight, shielded

Functional drawing



Assembly steps for M12 male/female plug and conductor

a = Slide on parts

b= 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 part. Tighten pressure screw.