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## Bus system flat-type plug - SACCBP-M12FSB-2CON-M16/2,0-910 - 1534407

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Bus system flush-type socket, PROFIBUS, 2-pos., M12, shielded, B-coded, rear/screw mounting with M16 thread, with 2 m bus cable, 2 x 0.25 mm<sup>2</sup>



### Key commercial data

|                        |   |
|------------------------|---|
| Packing unit           | 1   |
| Minimum order quantity | 1   |
| Catalog page           | Page 389 (PC-2011)  |
| GTIN                   | <br>4 046356 026574 |
| Custom tariff number   | 85444290  |
| Country of origin      | GERMANY   |

### Technical data

#### General data

|                                 |   |
|---------------------------------|---|
| Rated current at 40°C           | 4 A   |
| Rated voltage                   | 60 V  |
| Number of positions             | 2   |
| Volume resistance               | ≤ 3 mΩ  |
| Insulation resistance           | ≥ 100 MΩ  |
| Length of cable                 | 2 m   |
| Ambient temperature (operation) | -20 °C ... 80 °C (cable, flexible installation) |

#### General characteristics

|                          |                                       |
|--------------------------|---------------------------------------|
| Standards/regulations    | M12 plug-in connector IEC 61076-2-101 |
| Coding                   | B - inverse                           |
| Surge voltage category   | II                                    |
| Pollution degree         | 3                                     |
| Degree of protection     | IP67                                  |
| Contact material         | CuZn                                  |
| Contact surface material | Ni/Au                                 |

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## Technical data

### General characteristics

|                          |                     |
|--------------------------|---------------------|
| Contact carrier material | PA 66               |
| Material, knurls         | Nickel-plated brass |
| Sealing material         | NBR                 |
| Status display           | No                  |
| Test voltage             | 2500 V              |

### Conductor data

|   |   |
|---|---|
| Cable type                                    | PROFIBUS  |
| Cable type (abbreviation)                     | 910   |
| Conductor cross section                       | 2x 0.25 mm <sup>2</sup> (signal line)           |
| AWG signal line                               | 24  |
| Conductor structure signal line               | 19x 0.13 mm                                     |
| Core diameter including insulation            | 2.55 mm ±0.07 mm                                |
| Wire colors                                   | Red, green                                      |
| Type of pair shielding                        | Aluminum-lined polyester foil                   |
| Overall twist                                 | 2 cores with 2 fillers to the core              |
| Shielding                                     | Tinned copper braided shield                    |
| Optical shield covering                       | 80 %  |
| External sheath, color                        | Violet, RAL 4001                                |
| External cable diameter                       | 7.80 mm   |
| Smallest bending radius, fixed installation   | min. 78 mm                                      |
| Smallest bending radius, movable installation | min. 78 mm                                      |
| Number of bending cycles                      | 5000000   |
| Bending radius                                | 78 mm   |
| Traversing path                               | 10 m  |
| Traversing rate                               | 3 m/s   |
| Acceleration                                  | 7 m/s <sup>2</sup>                              |
| Outer sheath, material                        | PUR   |
| Material conductor insulation                 | Foamed PE                                       |
| Conductor material                            | Tin-plated Cu litz wires                        |
| Insulation resistance                         | ≥ 5 GΩ*km                                       |
| Conductor resistance                          | ≤ 78.4 Ω/km                                     |
| Working capacitance                           | 32 pF (core-core)                               |
| Wave impedance                                | Nom. 150 Ω ±10 %                                |
| Nominal voltage, conductor                    | 30 V  |
| Test voltage Core/Core                        | 1500 V  |
| Flame resistance                              | IEC 60332-1                                     |
| Flame resistance                              | DIN EN 50265-2-1                                |
| Ambient temperature (operation)               | -40 °C ... 80 °C (cable, fixed installation)    |
| Ambient temperature (operation)               | -20 °C ... 80 °C (cable, flexible installation) |

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## Classifications

### eclass

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27140815 |
| eCl@ss 4.1 | 27140815 |
| eCl@ss 5.0 | 27143423 |
| eCl@ss 5.1 | 27143423 |
| eCl@ss 6.0 | 27143423 |
| eCl@ss 7.0 | 27449001 |

### etim

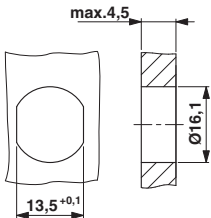
|          |          |
|----------|----------|
| ETIM 2.0 | EC001297 |
| ETIM 3.0 | EC002061 |
| ETIM 4.0 | EC002061 |

### unspsc

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

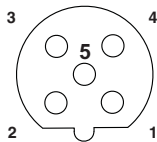
## Drawings

### Dimensioned drawing



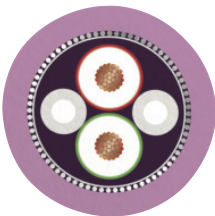
Housing cutout for M16 fastening thread, mounting panel with feed-through hole (alternatively with surface as protection against rotation)

### Schematic diagram



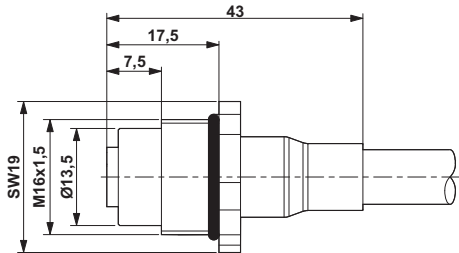
Pin assignment M12 female connector, 5-pos., B-coded, female side

### Cable cross section



PROFIBUS [910]

### Dimensioned drawing

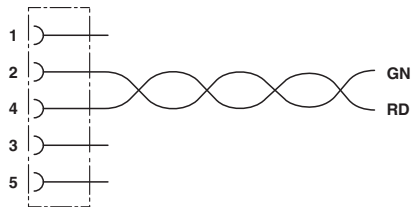


M12 flush-type connector



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### Circuit diagram



### Contact assignment of the M12 socket

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