

## Bus system flat-type plug - SACCEC-M12FSB-2CON-M16/0,5-910 - 1525597

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Bus system flush-type socket, PROFIBUS, 2-pos., M12, shielded, B-coded, front/screw mounting with M16 thread, with 0.5 m bus cable, 2 x 0.25 mm<sup>2</sup>



### Key commercial data

|                                      |          |
|--------------------------------------|----------|
| Packing unit                         | 1 1      |
| Weight per Piece (excluding packing) | 62.2 GRM |
| Custom tariff number                 | 85444290 |
| Country of origin                    | Germany  |

### Technical data

#### Dimensions

|                 |       |
|-----------------|-------|
| Length of cable | 0.5 m |
|-----------------|-------|

#### Ambient conditions

|                                 |                                  |
|---------------------------------|----------------------------------|
| Ambient temperature (operation) | -25 °C ... 85 °C (Plug / socket) |
| Degree of protection            | IP67                             |

#### General

|                        |                               |
|------------------------|-------------------------------|
| Rated current at 40°C  | 4 A                           |
| Rated voltage          | 60 V                          |
| Number of positions    | 2                             |
| 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   |
| Test voltage      | 2500 V                                    |
| Connection method | PROFIBUS                                  |
| Mounting type     | Front mounting M16 x 1.5 With locking nut |

#### Material

|   |                     |
|---|---------------------|
| Inflammability class according to UL 94 | V0                  |
| Contact material                        | CuZn                |
| Contact surface material                | Ni/Au               |
| Contact carrier material                | PA 66               |
| Material, knurls                        | Nickel-plated brass |
| Sealing material                        | NBR                 |

#### Cable

|                                    |  |
|------------------------------------|--|
| Cable type                         | PROFIBUS   |
| Cable type (abbreviation)          | 910  |
| UL AWM style                       | 21198 (80°C/300 V)   |
| 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   |
| Overall twist                      | 2 cores with 2 fillers to the core                         |
| Shielding                          | Plastic-coated aluminum foil, tinned copper braided shield |
| Optical shield covering            | 85 %   |
| External sheath, color             | Violet, RAL 4001   |
| External cable diameter D          | 7.8 mm ± 0.2 mm  |
| Number of bending cycles           | 4000000  |
| Bending radius                     | 65 mm  |
| Traversing path                    | 4.5 m  |
| Traversing rate                    | 3 m/s  |
| Acceleration                       | 3 m/s <sup>2</sup>   |
| Max. bending cycles                | 5000000  |
| Bending radius                     | 80 mm  |
| Traversing path                    | 4.5 m  |
| Traversing rate                    | 3 m/s  |
| Acceleration                       | 3 m/s <sup>2</sup>   |

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### Technical data

#### Cable

|                                 |   |
|---------------------------------|---|
| Outer sheath, material          | PUR   |
| Material conductor insulation   | Foamed PE                                       |
| Conductor material              | Tin-plated Cu litz wires                        |
| Insulation resistance           | ≥ 5 GΩ*km                                       |
| Conductor resistance            | 157.2 Ω/km                                      |
| Working capacitance             | 30 nF   |
| Wave impedance                  | nom. 150 Ω ±10 % (3 MHz ... 20 MHz)             |
| Shield attenuation              | ≤ 4.9 dB (at 16 MHz)                            |
| Nominal voltage, cable          | 30 V  |
| Test voltage Core/Core          | 1500 V (50 Hz, 1 min.)                          |
| Test voltage Core/Shield        | 1500 V (50 Hz, 1 min.)                          |
| Flame resistance                | UL 1581, Sec. 1060 (FT-1)                       |
|                                 | IEC 60332-1                                     |
| Other resistance                | Low adhesion                                    |
| Ambient temperature (operation) | -40 °C ... 80 °C (cable, fixed installation)    |
|                                 | -30 °C ... 70 °C (cable, flexible installation) |

### Classifications

#### eCl@ss

|            |          |
|------------|----------|
| 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 |
| eCl@ss 8.0 | 27449001 |

#### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC001297 |
| ETIM 3.0 | EC002061 |
| ETIM 4.0 | EC002061 |
| ETIM 5.0 | EC002061 |

#### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 6.01 | 31251501 |
|-------------|----------|

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## Classifications

### UNSPSC

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

## Approvals

### Approvals

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### GOST / GOST

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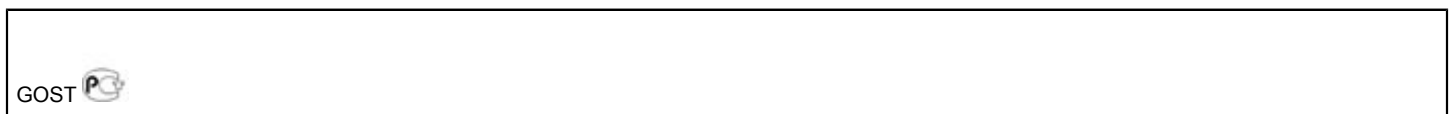
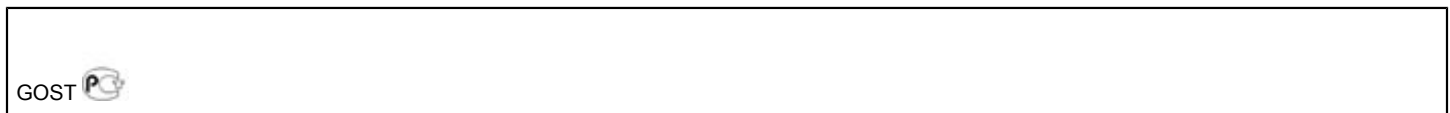
### Ex Approvals

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### Approvals submitted

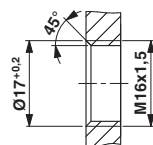
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## Approval details



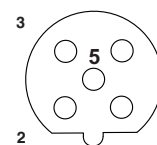
## Drawings

Dimensioned drawing



Housing cutout for M16 fastening thread, mounting panel with thread

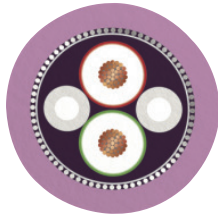
Schematic diagram



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

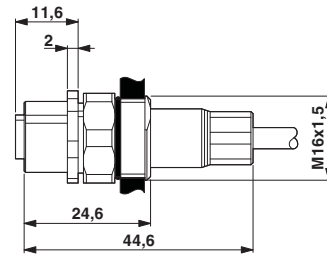
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Cable cross section



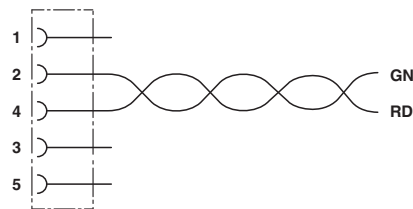
PROFIBUS [910]

Dimensioned drawing



M12 flush-type socket, can be positioned

Circuit diagram



Contact assignment of the M12 socket