# Bus system flat-type plug - SACCBP-M12MSB-2CON-M16/1,0-910 - 1534355



Bus system flush-type plug, PROFIBUS, 2-pos., M12, shielded, B-coded, rear/screw mounting with M16 thread, with 1 m bus cable, 2 x 0.25 mm²

## Key commercial data

| | |
|---|---|
| Packing unit | 1 1 |
| Weight per Piece (excluding packing) | 99.7 GRM |
| Custom tariff number | 85444290 |
| Country of origin | Germany |

## Technical data

### Dimensions

| | |
|---|---|
| Length of cable | 1 m |

### Ambient conditions

| | |
|---|---|
| Ambient temperature (operation) | -20 °C ... 80 °C (cable, flexible installation) |
| 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 |

### 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 mm² (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/s² |
| Max. bending cycles | 5000000 |
| Bending radius | 80 mm |
| Traversing path | 4.5 m |
| Traversing rate | 3 m/s |
| Acceleration | 3 m/s² |
| Outer sheath, material | PUR |
| Material conductor insulation | Foamed PE |

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## Technical data

### Cable

| | |
|---|---|
| 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 |
| UNSPSC 7.0901 | 31251501 |
| UNSPSC 11 | 31251501 |

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## Classifications

### UNSPSC

| | |
|---|---|
| UNSPSC 12.01 | 31251501 |
| UNSPSC 13.2 | 31251501 |

## Approvals

### Approvals

Approvals

GOST / GOST

Ex Approvals

Approvals submitted

### Approval details

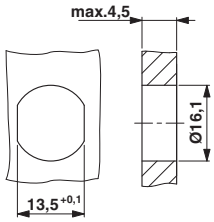
GOST

GOST

## Drawings

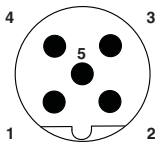
# Bus system flat-type plug - SACCBP-M12MSB-2CON-M16/1,0-910 - 1534355

Dimensioned drawing



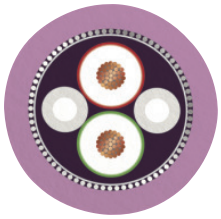

Housing cutout for M16 fastening thread, mounting panel with feed-through hole (alternatively with surface as protection against rotation)

Schematic diagram



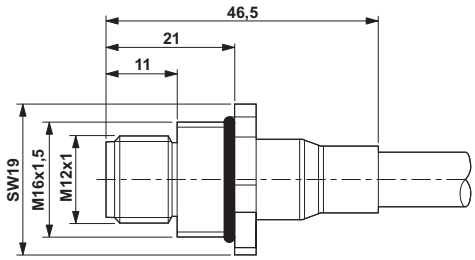

Pin assignment M12 male connector, 5-pos., B-coded, male side

Cable cross section



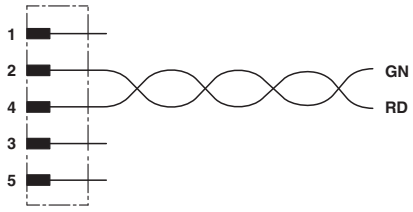
PROFIBUS [910]

Dimensioned drawing




M12 flush-type plug

Circuit diagram




Contact assignment of the M12 plug