

## Bus system cable - SAC-2P-M12MSB/20,0-910/M12FSB - 1524132

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Bus system cable, PROFIBUS, 2-position, PUR halogen-free, Violet, RAL 4001, shielded, Plug straight M12, B-coded, on Socket straight M12, B-coded, Cable length: 20 m



### Key commercial data

|                                      |            |
|--------------------------------------|------------|
| Packing unit                         | 1 pc       |
| Weight per Piece (excluding packing) | 1304.1 GRM |
| Custom tariff number                 | 85444290   |
| Country of origin                    | Poland     |

### Technical data

#### Dimensions

|                 |      |
|-----------------|------|
| Length of cable | 20 m |
|-----------------|------|

#### Ambient conditions

|                      |      |
|----------------------|------|
| Degree of protection | IP65 |
|                      | IP67 |
|                      | IP68 |

#### General

|                        |             |
|------------------------|-------------|
| Rated current at 40°C  | 4 A         |
| Rated voltage          | 250 V       |
| Number of positions    | 2           |
| Contact resistance     | ≤ 5 mΩ      |
| Insulation resistance  | ≥ 100 MΩ    |
| Coding                 | B - inverse |
| Signal type/category   | PROFIBUS    |
| Status display         | No          |
| Surge voltage category | II          |

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## Technical data

### General

|                             |       |
|-----------------------------|-------|
| Pollution degree            | 3     |
| Insertion/withdrawal cycles | ≥ 100 |

### Material

|                                         |                                             |
|-----------------------------------------|---------------------------------------------|
| Inflammability class according to UL 94 | V0                                          |
| Contact material                        | CuSn                                        |
| Contact surface material                | Ni/Au                                       |
| Contact carrier material                | PA 66                                       |
| Material of grip body                   | TPU, hardly inflammable, self-extinguishing |
| Material, knurls                        | Zinc die-cast, nickel-plated                |
| 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>                                         |
| 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           | $\geq 5 \text{ G}\Omega \cdot \text{km}$               |
| Conductor resistance            | $157.2 \text{ }\Omega/\text{km}$                       |
| Working capacitance             | 30 nF                                                  |
| Wave impedance                  | nom. $150 \text{ }\Omega \pm 10 \%$ (3 MHz ... 20 MHz) |
| Shield attenuation              | $\leq 4.9 \text{ dB}$ (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 | 27060306 |
| eCl@ss 4.1 | 27060306 |
| eCl@ss 5.0 | 27061801 |
| eCl@ss 5.1 | 27061801 |
| eCl@ss 6.0 | 27061801 |
| eCl@ss 7.0 | 27061801 |
| eCl@ss 8.0 | 27061801 |

#### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC000830 |
| ETIM 3.0 | EC001855 |
| ETIM 4.0 | EC001855 |
| ETIM 5.0 | EC001855 |

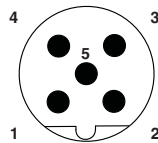
#### UNSPSC

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

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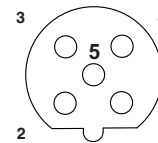
## Drawings

Schematic diagram



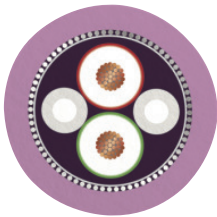
Pin assignment M12 male connector, 5-pos., B-coded, male side

Schematic diagram

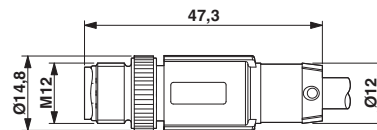


Pin assignment M12 socket, 5-pos., B-coded, female side

Cable cross section



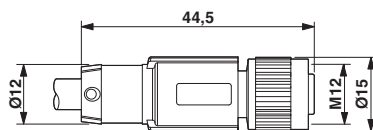
Dimensioned drawing



PROFIBUS [910]

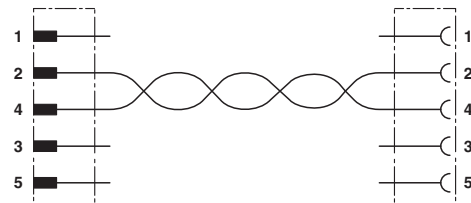
Plug, M12 x 1, straight, shielded

Dimensioned drawing



M12 x 1 socket, straight, shielded

Circuit diagram



Contact assignment of the M12 connector and the M12 socket

单击下面可查看定价，库存，交付和生命周期等信息

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