

## SAC-2P-M12MSB/10,0-910/M12FSB

Order No.: 1507395



Bus system cable, 2-position, PUR, halogen-free, Violet, RAL 4001, shielded, Plug, straight M12, B-coded, on Socket, straight M12, B-coded, Cable length: 10 m



### Commercial data

|                          |                                                                                                       |
|--------------------------|-------------------------------------------------------------------------------------------------------|
| EAN                      | <br>4 017918 900212 |
| Pack                     | 1                                                                                                     |
| Customs tariff           | 85444290                                                                                              |
| Catalog page information | Page 272 (PC-2009)                                                                                    |

### Product notes

WEEE/RoHS-compliant since:  
2006-07-11



### Technical data

#### General data

|                       |                            |
|-----------------------|----------------------------|
| Rated current at 40°C | 4 A                        |
| Rated voltage         | 250 V                      |
| Number of positions   | 2                          |
| Volume resistance     | $\leq 5 \text{ m}\Omega$   |
| Insulation resistance | $\geq 100 \text{ M}\Omega$ |
| Length of cable       | 10 m                       |

|                                 |                                                      |
|---------------------------------|------------------------------------------------------|
| Ambient temperature (operation) | -25 °C ... 90 °C (Male connector / female connector) |
|---------------------------------|------------------------------------------------------|

**General characteristics**

|                             |                                             |
|-----------------------------|---------------------------------------------|
| Coding                      | B - inverse                                 |
| Surge voltage category      | II                                          |
| Pollution degree            | 3                                           |
| Degree of protection        | IP65/IP67/IP69K                             |
| Insertion/withdrawal cycles | ≥ 100                                       |
| 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                                         |
| Status display              | No                                          |

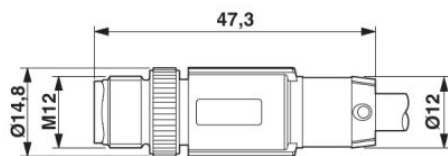
**Conductor data**

|                                    |                                    |
|------------------------------------|------------------------------------|
| Cable type                         | PROFIBUS                           |
| Cable type (abbreviation)          | 910                                |
| Conductor cross section            | 0.25 mm <sup>2</sup>               |
| AWG signal line                    | 24                                 |
| Conductor structure signal line    | 19x 0.13 mm                        |
| Core diameter including insulation | 2.55 mm ±0.07 mm                   |
| External cable diameter            | 7.80 mm                            |
| Wire colors                        | Red, green                         |
| External sheath, color             | Violet, RAL 4001                   |
| 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                             |
| 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 %                               |

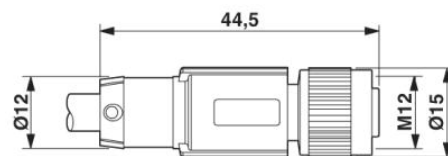
|                                               |                                                                                                 |
|-----------------------------------------------|-------------------------------------------------------------------------------------------------|
| Outer sheath, material                        | PUR                                                                                             |
| Material conductor insulation                 | Foamed PE                                                                                       |
| Conductor material                            | Tin-plated Cu litz wires                                                                        |
| 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>                                                                              |
| Ambient temperature (operation)               | -20 °C ... 80 °C (cable, fixed installation)<br>-20 °C ... 80 °C (cable, flexible installation) |
| Flame resistance                              | IEC 60332-1<br>DIN EN 50265-2-1                                                                 |

## Drawings

### Dimensioned drawing

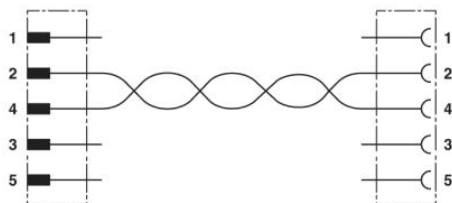


M12 x 1 male connector, straight, shielded



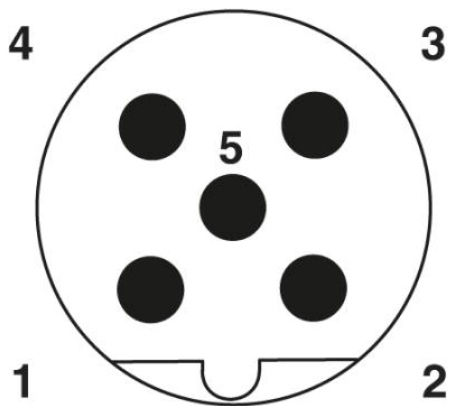
M12 x 1 female connector, straight, shielded

### Circuit diagram

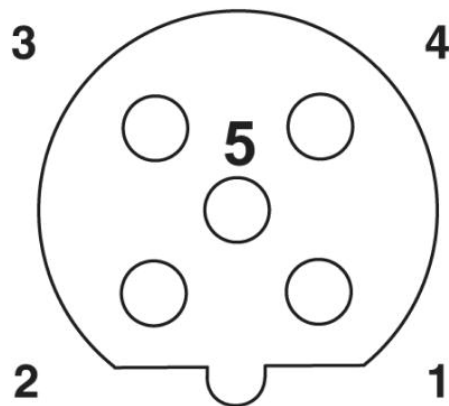


Schematic diagram

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



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