

# SAC-2P-MSB/10,0-910/FSB SCO

Order No.: 1518151



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



## Commercial data

|                          |                                                                                                       |
|--------------------------|-------------------------------------------------------------------------------------------------------|
| EAN                      | <br>4 017918 968274 |
| 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

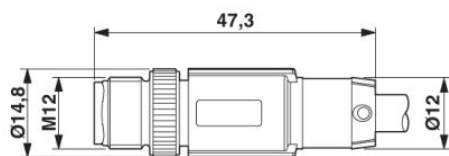
|                       |                            |
|-----------------------|----------------------------|
| Rated current at 40°C | 4 A                        |
| Rated voltage         | 250 V                      |
| Number of positions   | 2                          |
| Volume resistance     |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

|                                    |                                                      |
|------------------------------------|------------------------------------------------------|
| Ambient temperature (operation)    | -25 °C ... 90 °C (Male connector / female connector) |
| <b>General characteristics</b>     |                                                      |
| Coding                             | B - inverse                                          |
| Surge voltage category             | II                                                   |
| Pollution degree                   | 3                                                    |
| Degree of protection               | IP65/IP67/IP69K                                      |
| 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                                                   |
| <b>Conductor data</b>              |                                                      |
| 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                                                  |

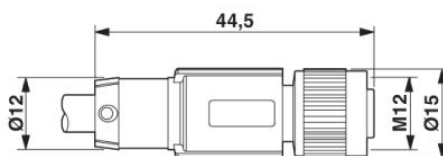
|                                               |                                                 |
|-----------------------------------------------|-------------------------------------------------|
| Material conductor insulation                 | Foamed PE                                       |
| 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)    |
|                                               | -20 °C ... 80 °C (cable, flexible installation) |
| Flame resistance                              | IEC 60332-1                                     |
|                                               | DIN EN 50265-2-1                                |

## Drawings

### Dimensioned drawing

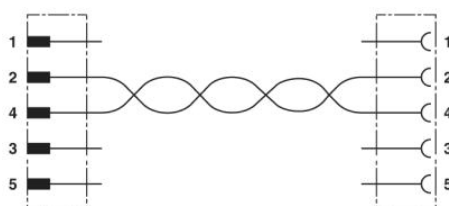


M12 x 1 male connector, straight, shielded



M12 x 1 female connector, straight, shielded

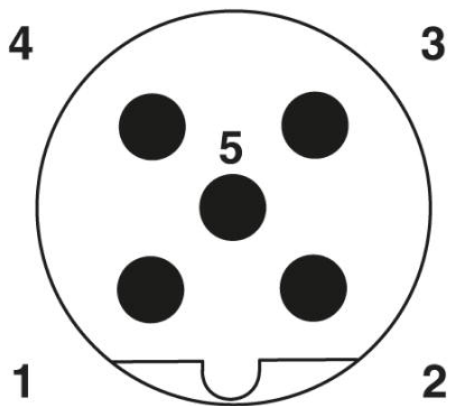
### Circuit diagram



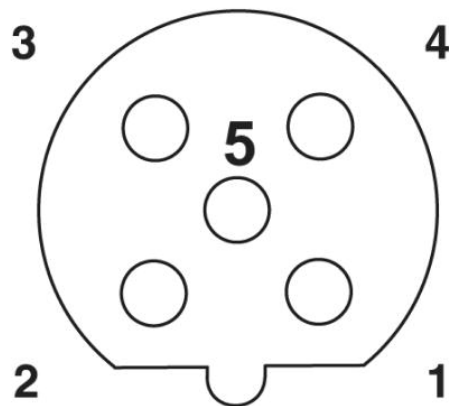
Contact assignment of the M12 plug and the M12 socket

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