

## SAC-5P-MS/15,0-920/FS SCO

Order No.: 1518313



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=1518313>

Bus system cable, 5-position, PUR, halogen-free, Violet, RAL 4001, shielded, Plug, straight M12-SPEEDCON, A-coded, on Socket, straight M12-SPEEDCON, A-coded, Cable length: 15 m



### Commercial data

|                          |                    |
|--------------------------|--------------------|
| GTIN (EAN)               | 4017918968434      |
| sales group              | D117               |
| Pack                     | 1 pcs.             |
| Customs tariff           | 85444290           |
| Weight/Piece             | 0.8842 KG          |
| Catalog page information | Page 279 (PC-2009) |

### Product notes

WEEE/RoHS-compliant since:  
03/02/2006



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### Technical data

#### General data

|                       |        |
|-----------------------|--------|
| Rated current at 40°C | 4 A    |
| Rated voltage         | 60 V   |
| Number of positions   | 5      |
| Volume resistance     | ≤ 5 mΩ |

|                                 |                                                      |
|---------------------------------|------------------------------------------------------|
| Insulation resistance           | $\geq 100 \text{ M}\Omega$                           |
| Length of cable                 | 15 m                                                 |
| Ambient temperature (operation) | -25 °C ... 90 °C (Male connector / female connector) |

#### General characteristics

|                          |                                             |
|--------------------------|---------------------------------------------|
| Coding                   | A - standard                                |
| Surge voltage category   | II                                          |
| Pollution degree         | 3                                           |
| Degree of protection     | IP65/IP67/IP69K                             |
| Contact material         | CuSn                                        |
| Contact surface material | Ni/Au                                       |
| Contact carrier material | TPU GF                                      |
| Material of grip body    | TPU, hardly inflammable, self-extinguishing |
| Material, knurls         | Zinc die-cast, (nickel-plated)              |
| Sealing material         | NBR                                         |
| Status display           | No                                          |

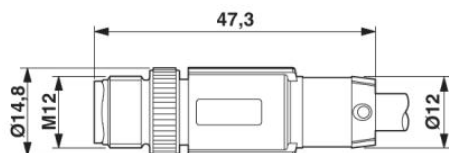
#### Conductor data

|                                     |                                                           |
|-------------------------------------|-----------------------------------------------------------|
| Cable type                          | CAN Bus/DeviceNet                                         |
| Cable type (abbreviation)           | 920                                                       |
| Conductor cross section             | 0.2 mm <sup>2</sup> (signal line)                         |
|                                     | 0.32 mm <sup>2</sup> (Power supply)                       |
|                                     | 0.32 mm <sup>2</sup> (Drain wire)                         |
| AWG signal line                     | 24                                                        |
| Conductor structure signal line     | 19x 0.12 mm                                               |
| AWG power supply                    | 22                                                        |
| Conductor structure, voltage supply | 19x 0.15 mm                                               |
| Core diameter including insulation  | 2.05 mm $\pm$ 0.1 mm (signal line)                        |
|                                     | 1.4 mm $\pm$ 0.05 mm (Power supply)                       |
| External cable diameter             | 6.70 mm                                                   |
| Wire colors                         | Red-black, blue-white                                     |
| External sheath, color              | Violet, RAL 4001                                          |
| Insulation resistance               | $\geq 5 \text{ G}\Omega \cdot \text{km}$ (signal line)    |
|                                     | $\geq 100 \text{ M}\Omega \cdot \text{km}$ (Power supply) |
| Conductor resistance                | $\leq 78.4 \text{ }\Omega/\text{km}$ (signal line)        |
|                                     | $\geq 51.6 \text{ }\Omega/\text{km}$ (Power supply)       |

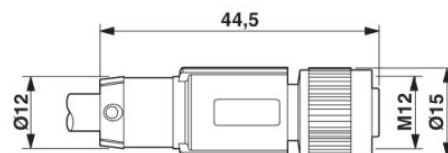
|                                               |                                                       |
|-----------------------------------------------|-------------------------------------------------------|
| Working capacitance                           | 39.3 pF (Signal line, Core-Core)                      |
|                                               | 78.7 pF (Signal line, Core-Shield)                    |
| Nominal voltage, conductor                    | 30 V (signal line)                                    |
|                                               | 300 V (Power supply)                                  |
| Test voltage, conductor                       | 1500 V (signal line)                                  |
|                                               | 2000 V (Power supply)                                 |
| Twisted pairs                                 | 2 cores to the pair                                   |
| Type of pair shielding                        | Aluminum-lined polyester foil                         |
| Overall twist                                 | 2 pairs around a drain wire in the center to the core |
| Shielding                                     | Tinned copper braided shield                          |
| Optical shield covering                       | 70 %                                                  |
| Outer sheath, material                        | PUR                                                   |
| Material conductor insulation                 | PE (Power supply)                                     |
|                                               | Foamed PE (signal line)                               |
| Conductor material                            | Tin-plated Cu litz wires                              |
| Smallest bending radius, fixed installation   | 67 mm                                                 |
| Smallest bending radius, movable installation | 67 mm                                                 |
| Number of bending cycles                      | 5000000                                               |
| Bending radius                                | 67 mm                                                 |
| Traversing path                               | 10 m                                                  |
| Traversing rate                               | 3 m/s                                                 |
| Acceleration                                  | 7 m/s <sup>2</sup>                                    |
| Ambient temperature (operation)               | -40 °C ... 80 °C (cable, fixed installation)          |
|                                               | -20 °C ... 75 °C (cable, flexible installation)       |
| Halogen-free                                  | complying with IEC 60754-1/2                          |

## Diagrams/Drawings

### Dimensioned drawing

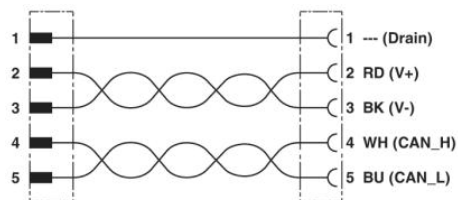


M12 x 1 male connector, straight, shielded

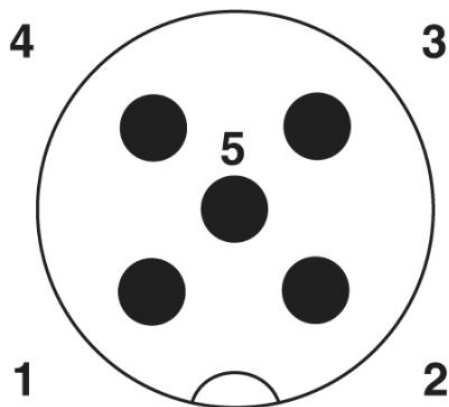


M12 x 1 female connector, straight, shielded

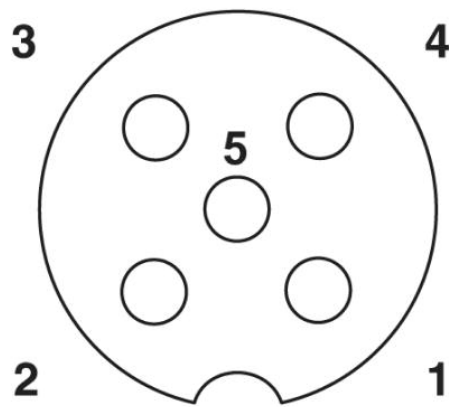
#### Circuit diagram



#### Schematic diagram



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



Pin assignment M12 socket, 5-pos., A-coded, socket side view

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