

SAC-5P-M12MS/10,0-920/M12FS

Order No.: 1507573

<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=1507573>

Bus system cable, 5-position, PUR, halogen-free, Violet, RAL 4001, shielded, Plug, straight M12, A-coded, on Socket, straight M12, A-coded, Cable length: 10 m



CANopen

Product notes

WEEE/RoHS-compliant since:
10/31/2006



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Commercial data

| | |
|--------------------------|--------------------|
| GTIN (EAN) | 4017918900366 |
| sales group | D117 |
| Pack | 1 pcs. |
| Customs tariff | 85444290 |
| Weight/Piece | 0.6319 KG |
| Catalog page information | Page 279 (PC-2009) |

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 | ≥ 100 MΩ |
| Length of cable | 10 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 |
| Insertion/withdrawal cycles | ≥ 100 |
| 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 ² (signal line) |
| | 0.32 mm ² (Power supply) |
| | 0.32 mm ² (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 ±0.1 mm (signal line) |
| | 1.4 mm ±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 | ≥ 5 GΩ*km (signal line) |
| | ≥ 100 MΩ*km (Power supply) |

| | |
|---|---|
| Conductor resistance | ≤ 78.4 Ω/km (signal line) |
| | ≥ 51.6 Ω/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 ² |
| 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 |

Certificates / Approvals

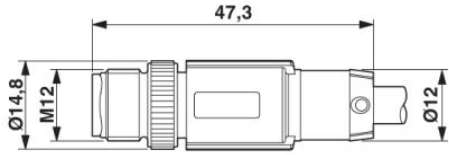


Certification

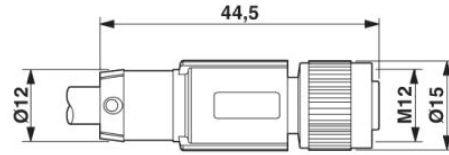
GOST

Diagrams/Drawings

Dimensioned drawing

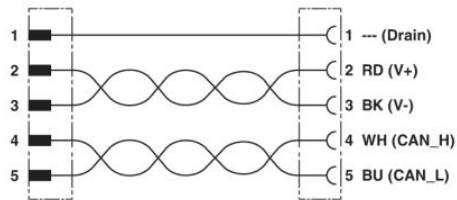


M12 x 1 male connector, straight, shielded



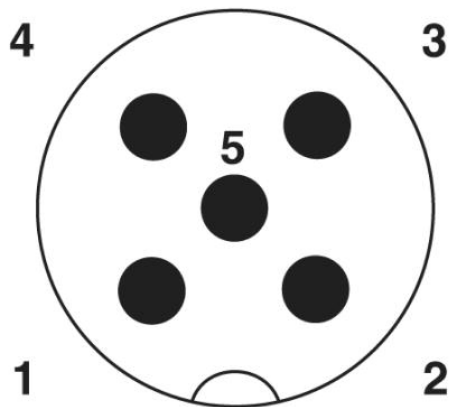
M12 x 1 female connector, straight, shielded

Circuit diagram

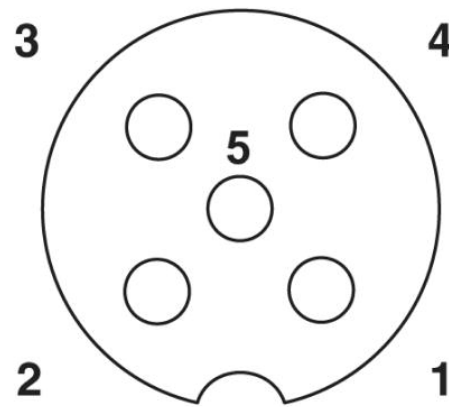


Contact assignment of the M12 connector and the M12 socket

Schematic diagram



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



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

Address

PHOENIX CONTACT Deutschland GmbH
Flachmarktstr. 8
32825 Blomberg, Germany
Phone +49 5235 3 12000
Fax +49 5235 3 41200
<http://www.phoenixcontact.de>



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