

SAC-5P-M12MRB/ 5,0-920

Order No.: 1543948

<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=1543948>

Bus system cable, DeviceNet/CANOpen, 5-pos., PUR halogen-free, violet, shielded, angled M12 plug B-coded to free cable end, length: 5 m



CANopen

Commercial data

| | |
|----------------|---------------|
| EAN | 4046356103039 |
| Pack | 1 pcs. |
| Customs tariff | 85444290 |
| Weight/Piece | 0.318 KG |

Product notesWEEE/RoHS-compliant since:
07/03/2006

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Technical data**General data**

| | |
|-----------------------|----------------------------|
| Nominal current I_N | 4 A |
| Nominal voltage U_N | 60 V |
| Number of positions | 5 |
| Volume resistance | $\leq 5 \text{ m}\Omega$ |
| Insulation resistance | $\geq 100 \text{ M}\Omega$ |
| Length of cable | 5 m |

| | |
|---------------------------------|---|
| Ambient temperature (operation) | -25 °C ... 90 °C (plug/socket) |
| | -40 °C ... 80 °C (cable, fixed installation) |
| | -20 °C ... 75 °C (cable, flexible installation) |

General characteristics

| | |
|------------------------------------|---|
| Coding | B - inverse |
| Inflammability class acc. to UL 94 | HB |
| 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) |
| Status display | No |

Conductor data

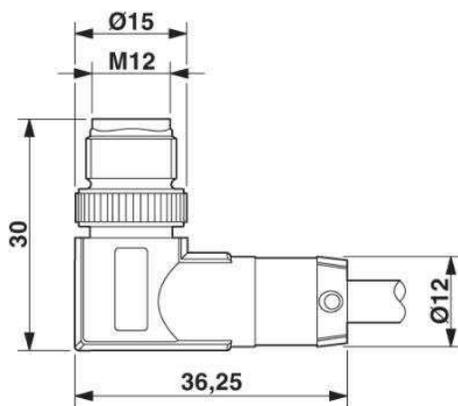
| | |
|-------------------------------------|---|
| Cable type | CAN Bus/DeviceNet |
| Conductor cross section | 0.2 mm ² (signal line) |
| | 0.32 mm ² (Power supply) |
| | 0.32 mm ² (Filler litz wire) |
| AWG signal line | 24 |
| Conductor structure, signal line | 19x 0.12 mm |
| AWG power supply | 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 | > 0.1 GΩ*km (Power supply) |
| | > 5 GΩ*km (signal line) |
| Conductor resistance | ≤ 51.6 mΩ/m (Power supply) |
| | ≤ 78.4 mΩ/m (signal line) |

| | |
|---|---|
| Working capacitance | 39.3 pF (Signal line, Core-Core) |
| | 78.7 pF (Signal line, Core-Shield) |
| Nominal voltage, conductor | 300 V (Power supply) |
| | 30 V (signal line) |
| Test voltage, conductor | 1500 V (signal line) |
| Test voltage Core/Core | 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 filler litz wire in the center to the core |
| Shielding | Braided shielding made of galvanized copper wires |
| 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 | Min. 67 mm |
| Smallest bending radius, movable installation | Min. 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 |

Drawings

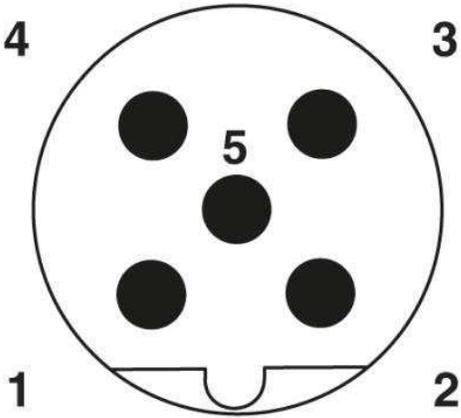
Dimensioned drawing

M12 x 1 male connector, angled, shielded



Schematic diagram

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



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