

Bus system cable - SAC-5P-MS/20,0-923/FS CAN SCO - 1419056

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Bus system cable, CANopen®, 5-position, PUR halogen-free, Gray RAL 7001, shielded, Plug straight M12-SPEEDCON, A-coded, on Socket straight M12-SPEEDCON, A-coded, Cable length: 20 m



Key commercial data

| | |
|------------------------|---|
| Packing unit | 0 |
| Minimum order quantity | 1 |
| Catalog page | Page 395 (PC-2011) |
| GTIN |  4 046356 543002 |
| Custom tariff number | 85444290 |
| Country of origin | GERMANY |

Technical data

General data

| | |
|---------------------------------|--|
| Rated current at 40°C | 4 A |
| Rated voltage | 60 V |
| Number of positions | 5 |
| Length of cable | 20 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 |

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Technical data

Conductor data

| | |
|---|---|
| Cable type | CAN Bus/DeviceNet |
| Cable type (abbreviation) | 923 |
| Conductor cross section | 2x 0.2 mm ² (signal line) |
| Conductor cross section | 2x 0.32 mm ² (Power supply) |
| Conductor cross section | 1x 0.32 mm ² (Drain wire) |
| AWG signal line | 24 |
| AWG power supply | 22 |
| Conductor structure signal line | 19x 0.12 mm |
| Conductor structure, voltage supply | 19x 0.15 mm |
| Core diameter including insulation | 2.05 mm ±0.1 mm (signal line) |
| Core diameter including insulation | 1.4 mm ±0.05 mm (Power supply) |
| Wire colors | Red-black, blue-white |
| 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 % |
| External sheath, color | Gray RAL 7001 |
| External cable diameter | 6.70 mm |
| 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 |
| Outer sheath, material | PUR |
| Material conductor insulation | PE (Power supply) |
| Material conductor insulation | Foamed PE (signal line) |
| Conductor material | Tin-plated Cu litz wires |
| Insulation resistance | ≥ 5 GΩ*km (signal line) |
| Insulation resistance | ≥ 100 MΩ*km (Power supply) |
| Conductor resistance | ≤ 78.4 Ω/km (signal line) |
| Conductor resistance | ≥ 51.6 Ω/km (Power supply) |
| Working capacitance | 39.3 pF (Signal line, Core-Core) |
| Working capacitance | 78.7 pF (Signal line, Core-Shield) |
| Nominal voltage, conductor | 30 V (signal line) |
| Nominal voltage, conductor | 300 V (Power supply) |
| Test voltage, conductor | 1500 V (signal line) |
| Test voltage, conductor | 2000 V (Power supply) |
| Halogen-free | complying with IEC 60754-1/2 |
| Ambient temperature (operation) | -40 °C ... 80 °C (cable, fixed installation) |

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Technical data

Conductor data

| | |
|---------------------------------|---|
| Ambient temperature (operation) | -20 °C ... 75 °C (cable, flexible installation) |
|---------------------------------|---|

Classifications

eclass

| | |
|------------|----------|
| eCl@ss 4.0 | 27060307 |
| eCl@ss 4.1 | 27060307 |
| eCl@ss 5.0 | 27061801 |
| eCl@ss 5.1 | 27060307 |
| eCl@ss 6.0 | 27279218 |
| eCl@ss 7.0 | 27279218 |

etim

| | |
|----------|----------|
| ETIM 2.0 | EC000830 |
| ETIM 3.0 | EC000830 |
| ETIM 4.0 | EC001855 |

unspsc

| | |
|---------------|----------|
| UNSPSC 6.01 | 26121616 |
| UNSPSC 7.0901 | 26121616 |
| UNSPSC 11 | 26121604 |
| UNSPSC 12.01 | 26121616 |
| UNSPSC 13.2 | 26121616 |

Approvals

Approvals

Approvals

GOST

Ex Approvals

Approvals submitted

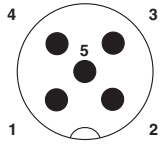
Approval details

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| GOST |
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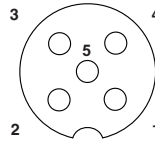
Drawings

Schematic diagram



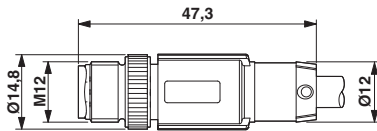
Pin assignment M12 male connector, 5-pos., A-coded, male side

Schematic diagram



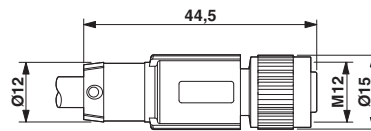
Pin assignment M12 socket, 5-pos., A-coded, socket side view

Dimensioned drawing



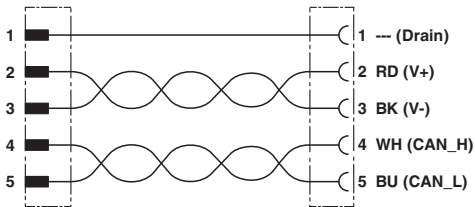
M12 x 1 male connector, straight

Dimensioned drawing



M12 x 1 female connector, straight

Circuit diagram



Contact assignment of the M12 plug and the M12 socket