

Bus system cable - SAC-5P-MSB/ 0,6-900/FSB SCO - 1577286


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Bus system cable, INTERBUS, 5-position, PUR halogen-free, green RAL 6017, shielded, Plug straight M12 SPEEDCON, B-coded, on Socket straight M12 SPEEDCON, B-coded, cable length: 0.6 m



Key Commercial Data

| | |
|------------------------|---|
| Packing unit | 1 STK |
| Minimum order quantity | 15 STK |
| GTIN |  4 046356 451383 |
| GTIN | 4046356451383 |

Technical data

Dimensions

| | |
|-----------------|-------|
| Length of cable | 0.6 m |
|-----------------|-------|

Ambient conditions

| | |
|----------------------|------|
| Degree of protection | IP65 |
| | IP67 |
| | IP68 |

General

| | |
|-----------------------|-------------|
| Rated current at 40°C | 4 A |
| Rated voltage | 60 V |
| Number of positions | 5 |
| Insulation resistance | ≥ 100 MΩ |
| Coding | B - inverse |
| Signal type/category | INTERBUS |
| Status display | No |
| Overvoltage category | II |
| Degree of pollution | 3 |

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Technical data

Material

| | |
|--|---|
| Flammability rating according to UL 94 | V0 |
| Contact material | CuSn |
| Contact surface material | Ni/Au |
| Contact carrier material | PA 6.6 |
| Material of grip body | TPU, hardly inflammable, self-extinguishing |
| Material, knurls | Zinc die-cast, nickel-plated |
| Sealing material | NBR |

Standards and Regulations

| | |
|--|----|
| Flammability rating according to UL 94 | V0 |
|--|----|

Cable

| | |
|---|--------------------------------------|
| Cable type | INTERBUS |
| Cable type (abbreviation) | 900 |
| Cable structure | 3 x 2 x 0.22 mm ² |
| Conductor cross section | 3x 2x 0.22 mm ² |
| AWG signal line | 24 |
| Conductor structure signal line | 32x 0.10 mm |
| Wire colors | Green-yellow, white-brown, gray-pink |
| Twisted pairs | 2 cores to the pair |
| Overall twist | 3 pairs to the core |
| Shielding | Braided copper wires |
| External sheath, color | may green RAL 6017 |
| External cable diameter D | 8 mm |
| Minimum bending radius, fixed installation | 7.5 x D |
| Minimum bending radius, flexible installation | 15 x D |
| Number of bending cycles | 5000000 |
| Bending radius | 120 mm |
| Traversing path | 10 m |
| Traversing rate | 1.6 m/s |
| Acceleration | 3.2 m/s ² |
| Cable weight | 70 kg/km |
| Outer sheath, material | PUR |
| Material conductor insulation | PE |
| Conductor material | Bare Cu litz wires |
| Insulation resistance | ≥ 5 GΩ*km |
| Loop resistance | ≤ 159.80 Ω/km |
| Cable capacity | ≤ 60 nF/km (At 800 Hz) |
| Wave impedance | 120 Ω ±20 % (at 64 kHz) |
| | 100 Ω ±15 % (with 1 MHz) |
| Near end crosstalk attenuation (NEXT) | ≥ 61 dB (at 772 kHz) |
| | ≥ 59 dB (with 1 MHz) |

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Technical data

Cable

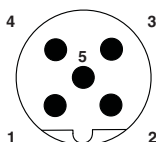
| | |
|---------------------------------|---|
| | ≥ 55 dB (at 2 MHz) |
| | ≥ 50 dB (at 4 MHz) |
| | ≥ 46 dB (at 8 MHz) |
| | ≥ 44 dB (at 10 MHz) |
| | ≥ 41 dB (at 16 MHz) |
| | ≥ 40 dB (at 20 MHz) |
| Attenuation | ≤ 15 dB/km (at 256 kHz) |
| | ≤ 24 dB/km (at 772 kHz) |
| | ≤ 27 dB/km (with 1 MHz) |
| | ≤ 52 dB/km (at 4 MHz) |
| | ≤ 84 dB/km (at 10 MHz) |
| | ≤ 112 dB/km (at 16 MHz) |
| | ≤ 119 dB/km (at 20 MHz) |
| Signal speed | 0.66 c |
| Coupling resistance | < 250.00 mΩ/m (at 30 MHz) |
| Nominal voltage, cable | 250 V (Peak value, not for high-power applications) |
| Test voltage Core/Core | 1500 V _{rms} |
| Test voltage Core/Shield | 1000 V _{rms} |
| Flame resistance | according to VDE 0472, Part 4, test type B |
| | according to IEC 60332-1 |
| Ambient temperature (operation) | -40 °C ... 80 °C (cable, fixed installation) |
| | -30 °C ... 70 °C (cable, flexible installation) |

Environmental Product Compliance

| | |
|------------|---|
| China RoHS | Environmentally Friendly Use Period = 50 |
| | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

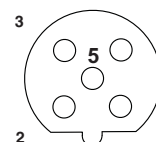
Drawings

Schematic diagram



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

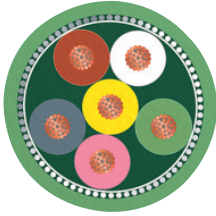
Schematic diagram



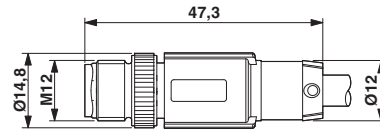
Pin assignment M12 socket, 5-pos., B-coded, female side

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Cable cross section



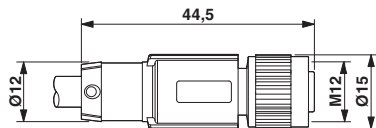
Dimensional drawing



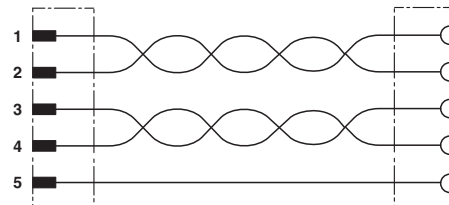
INTERBUS [900]

Plug, M12 x 1, straight, shielded

Dimensional drawing



Circuit diagram



M12 x 1 socket, straight, shielded

Contact assignment of the M12 connector and the M12 socket

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