

Bus system cable - SAC-2P-M12MSB/28,0-910/M12FSB - 1572964

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Bus system cable, PROFIBUS, 2-position, PUR halogen-free, violet RAL 4001, shielded, Plug straight M12, coding: B, on Socket straight M12, coding: B, cable length: 28 m



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Key Commercial Data

| | |
|--------------------------------------|-------------|
| Packing unit | 1 pc |
| Minimum order quantity | 50 pc |
| Weight per Piece (excluding packing) | 1,879.300 g |
| Custom tariff number | 85444290 |
| Country of origin | Poland |

Technical data

Dimensions

| | |
|-----------------|------|
| Length of cable | 28 m |
|-----------------|------|

Ambient conditions

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

General

| | |
|-----------------------|-------------|
| Rated current at 40°C | 4 A |
| Rated voltage | 250 V |
| Number of positions | 2 |
| Insulation resistance | ≥ 100 MΩ |
| Coding | B - inverse |
| Signal type/category | PROFIBUS |
| Status display | No |

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Technical data

General

| | |
|-----------------------------|-------|
| Overvoltage category | II |
| Degree of pollution | 3 |
| Insertion/withdrawal cycles | ≥ 100 |

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 | PROFIBUS |
| Cable type (abbreviation) | 910 |
| UL AWM style | 21198 (80°C/300 V) |
| Cable structure | 1x2xAWG24/19 |
| Conductor cross section | 2x 0.25 mm ² (Signal line) |
| AWG signal line | 24 |
| Conductor structure signal line | 19x 0.13 mm |
| Core diameter including insulation | 2.55 mm ±0.07 mm |
| Wire colors | Red, green |
| Overall twist | 2 cores with 2 fillers to the core |
| Shielding | Plastic-coated aluminum foil, tinned copper braided shield |
| Optical shield covering | 85 % |
| External sheath, color | violet RAL 4001 |
| External cable diameter D | 7.8 mm ±0.2 mm |
| Smallest bending radius, fixed installation | 40 mm |
| Smallest bending radius, movable installation | 65 mm |
| Number of bending cycles | 4000000 |
| Bending radius | 65 mm |
| Traversing path | 4.5 m |
| Traversing rate | 3 m/s |
| Acceleration | 3 m/s ² |
| Number of bending cycles | 5000000 |

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Technical data

Cable

| | |
|---------------------------------|---|
| Bending radius | 80 mm |
| Traversing path | 4.5 m |
| Traversing rate | 3 m/s |
| Acceleration | 3 m/s ² |
| Cable weight | 90 kg/km |
| Outer sheath, material | PUR |
| Material, filler | PP |
| Material conductor insulation | Foam-Skin PP |
| Conductor material | Tin-plated Cu litz wires |
| Insulation resistance | $\geq 5 \text{ G}\Omega \cdot \text{km}$ |
| Conductor resistance | $\leq 78.6 \text{ }\Omega/\text{km}$ |
| Cable capacity | nom. 30 pF/m |
| Wave impedance | $150 \text{ }\Omega \pm 10\% \text{ (3 MHz ... 20 MHz)}$ |
| Attenuation | $\leq 0.049 \text{ dB/m (at 16 MHz)}$ |
| Nominal voltage, cable | 30 V |
| Test voltage Core/Core | 1500 V (50 Hz, 1 min.) |
| Test voltage Core/Shield | 1500 V (50 Hz, 1 min.) |
| Flame resistance | UL 1581, Sec. 1060 (FT-1) |
| | IEC 60332-1-2 |
| Halogen-free | in accordance with DIN VDE 0472 part 815 |
| | according to IEC 60754-1 |
| Other resistance | Low adhesion |
| Ambient temperature (operation) | -40 °C ... 80 °C (cable, fixed installation) |
| | -30 °C ... 80 °C (cable, flexible installation) |
| | $\leq 70 \text{ }^{\circ}\text{C}$ (cable, drag chain applications) |

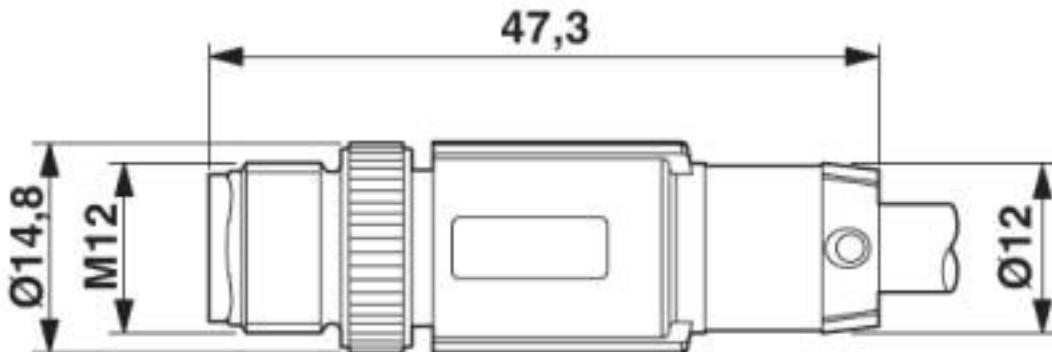
Environmental Product Compliance

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

Drawings

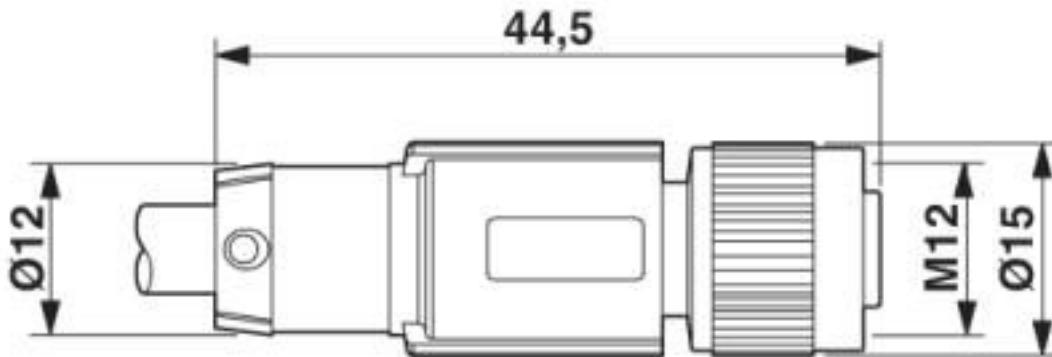
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Dimensional drawing



Plug, M12 x 1, straight, shielded

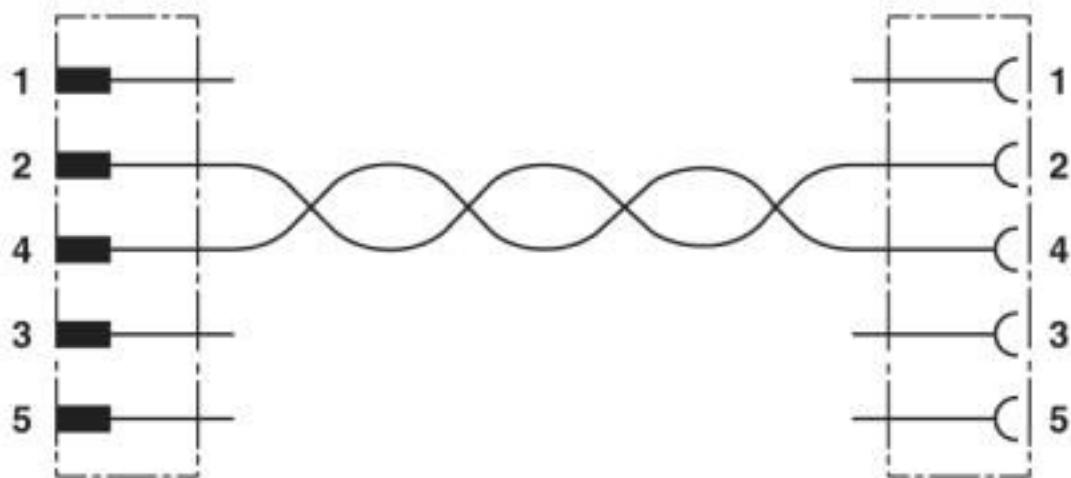
Dimensional drawing



M12 x 1 socket, straight, shielded

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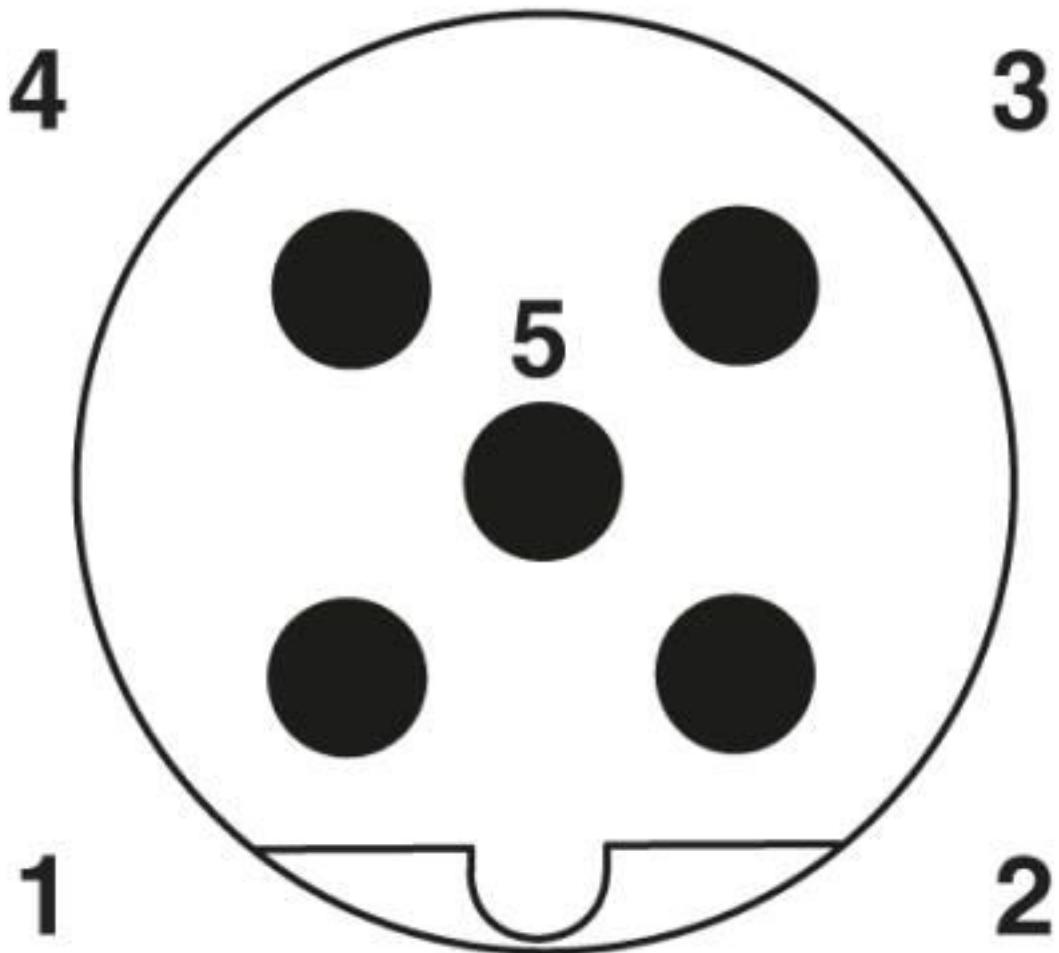
Circuit diagram



Contact assignment of the M12 connector and the M12 socket

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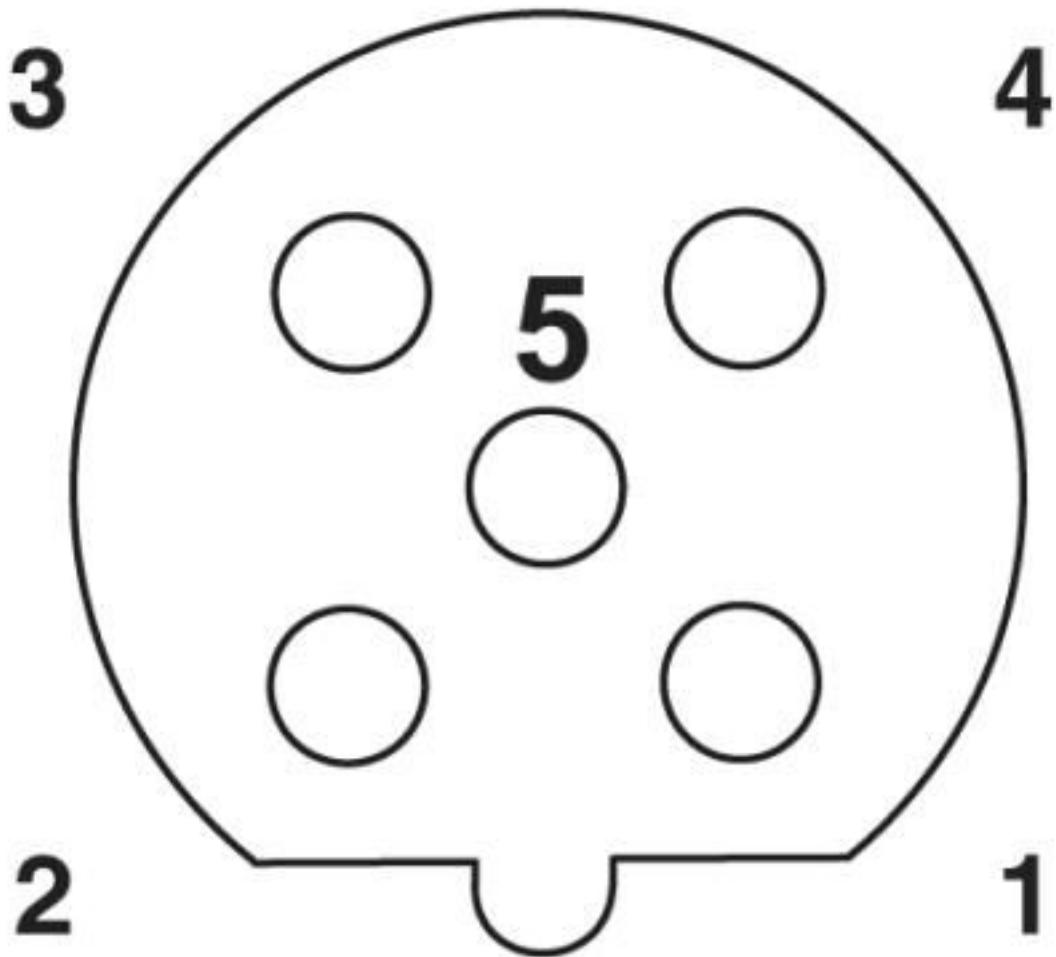
Schematic diagram



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

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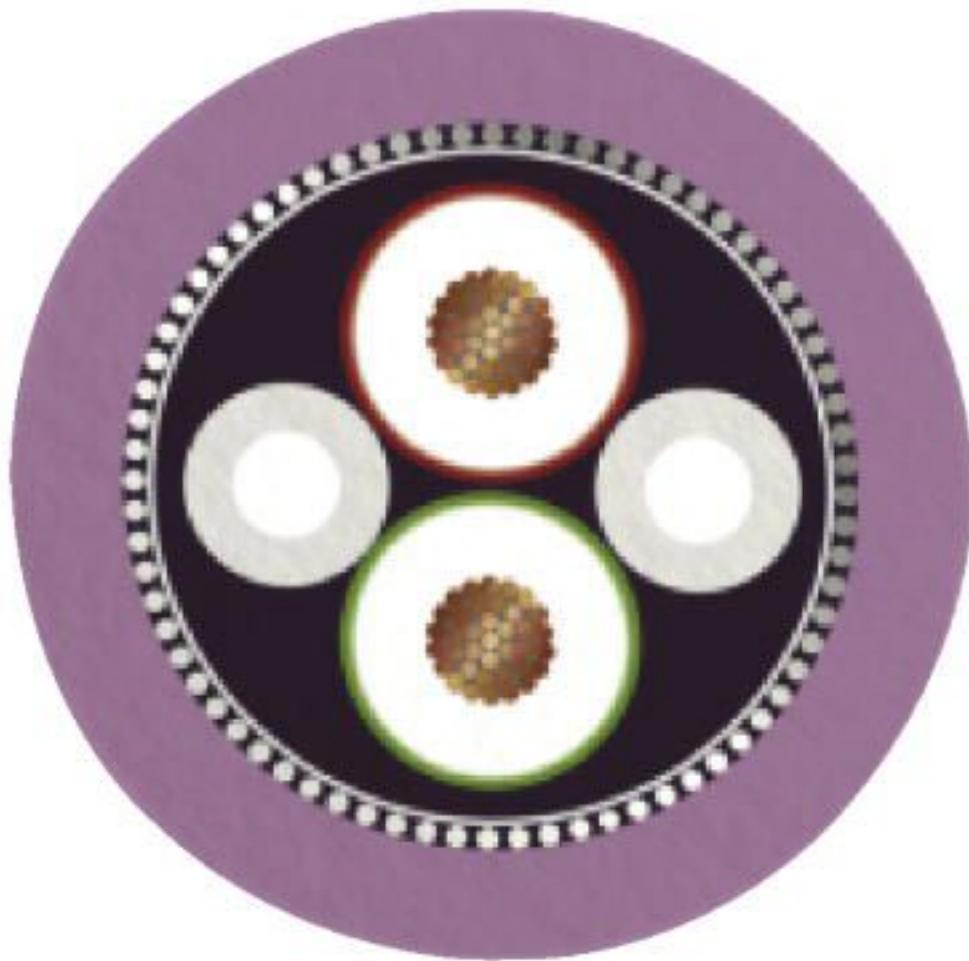
Schematic diagram



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

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Cable cross section



PROFIBUS [910]

Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 4.0 | 27060306 |
| eCl@ss 4.1 | 27060306 |
| eCl@ss 5.0 | 27061801 |
| eCl@ss 5.1 | 27061801 |
| eCl@ss 6.0 | 27061801 |
| eCl@ss 8.0 | 27279218 |
| eCl@ss 9.0 | 27060311 |

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Classifications

ETIM

| | |
|----------|----------|
| ETIM 3.0 | EC001855 |
| ETIM 4.0 | EC001855 |
| ETIM 5.0 | EC001855 |

UNSPSC

| | |
|---------------|----------|
| UNSPSC 6.01 | 31251501 |
| UNSPSC 7.0901 | 31251501 |
| UNSPSC 11 | 31251501 |
| UNSPSC 12.01 | 31251501 |
| UNSPSC 13.2 | 31251501 |