


SAC-4P-10,0-28X/M12FS SH OD

Order No.: 1454176

<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=1454176>

Sensor/Actuator cable, 4-position, PE-X halogen-free, Black-gray RAL 7021, shielded, Free conductor end, on Socket, straight M12, A - standard, Cable length: 10 m

Commercial data

| | |
|--------------------------|--|
| GTIN (EAN) |  4 046356 568784 |
| Note | Made-to-order |
| sales group | D117 |
| Pack | 1 pcs. |
| Customs tariff | 85444290 |
| Catalog page information | Page 220 (PC-2011) |

Product notes

WEEE/RoHS-compliant since:
03/04/2010



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Technical data

General data

| | |
|-----------------------|--------|
| Rated current at 40°C | 4 A |
| Rated voltage | 250 V |
| Number of positions | 4 |
| Volume resistance | ≤ 5 mΩ |

| | |
|---------------------------------|---|
| Insulation resistance | ≥ 100 MΩ |
| Length of cable | 10 m |
| Ambient temperature (operation) | -40 °C ... 105 °C |
| | -40 °C ... 85 °C (On sudden changes in temperature (according to IEC 60512-11-4)) |

General characteristics

| | |
|-----------------------------|-------------------------------|
| Standards/regulations | M12 connector IEC 61076-2-101 |
| Coding | A - standard |
| Pollution degree | 3 |
| Degree of protection | IP65/IP68/IP69K |
| Insertion/withdrawal cycles | ≥ 100 |
| Torque | 0.4 Nm (M12 connector) |
| Contact material | CuSn |
| Contact surface material | Ni/Au |
| Contact carrier material | PP |
| Material of grip body | PP |
| Material, knurls | High-grade steel |
| Sealing material | FPM |
| Status display | No |

Conductor data

| | |
|------------------------------------|-------------------------------------|
| Cable type | PE-X black |
| Cable type (abbreviation) | 28X |
| Cable abbreviation | Li2X2X-C-VI-2X |
| Conductor cross section | 0.5 mm ² |
| AWG signal line | 20 |
| Conductor structure signal line | 28x 0.15 mm |
| Core diameter including insulation | 1.6 mm ±0.05 mm |
| Thickness, insulation | ~ 0.3 mm (Core insulation) |
| | Approx. 0.7 mm (Outer cable sheath) |
| | ~ 0.45 mm (Inner sheath) |
| External cable diameter | 6.8 mm ±0.2 mm |
| Wire colors | Brown, white, blue, black |
| External sheath, color | Black-gray RAL 7021 |
| Insulation resistance | ≥ 100 MΩ*km (at 20°C) |
| Conductor resistance | max. 39 Ω/m (at 20°C) |

| | |
|---|---|
| Nominal voltage, conductor | ≤ 300 V |
| Test voltage, conductor | ≥ 3000 V |
| Overall twist | 4 wires, twisted |
| Length of twist, overall twist | 108.8 mm |
| Shielding | Braided copper wires |
| Optical shield covering | 85 % |
| Outer sheath, material | PE-X |
| Material, inner sheath | PE-X |
| Material conductor insulation | PE-X |
| Conductor material | Bare Cu litz wires |
| Cable weight | 74 kg/km |
| Smallest bending radius, fixed installation | 34 mm |
| Smallest bending radius, movable installation | 68 mm |
| Number of bending cycles | 1000000 |
| Bending radius | 68 mm |
| Traversing path | 10 m |
| Traversing rate | 3 m/s |
| Acceleration | 10 m/s ² |
| Ambient temperature (operation) | -30 °C ... 105 °C (cable, fixed installation) -15 °C ... 105 °C (cable, flexible installation) |
| Flame resistance | According to DIN 60332-1-2 According to DIN EN 50266-2-5 |
| Halogen-free | in accordance with DIN VDE 0472 part 815 |
| Resistance to oil | in accordance with DIN EN 60811-2-1 |
| Other resistance | UV resistant According to DIN VDE 0276-605 |

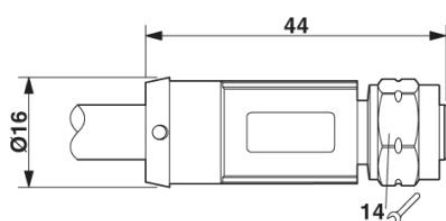
Accessories

| Item | Designation | Description |
|----------------|------------------------------|---|
| General | | |
| 1440025 | SACC-M12MS-5CON-DM 5-8 SH VA | Sensor/actuator connector, socket, straight, 5-pos., M12 shielded, screw connection, high-grade steel knurl, cable screw connection 5 mm - 8.6 mm |
| Tools | | |
| 1212513 | SAC BIT M12-W14 | SAC nut, for assembling M12 connectors with hexagonal high-grade steel knurl, with 4 mm hexagonal drive |

| | | |
|---------|------------|--|
| 1208429 | TSD 04 SAC | Torque screwdriver, with preset torque of 0.4 Nm and 4 mm hexagonal drive for M12 connectors |
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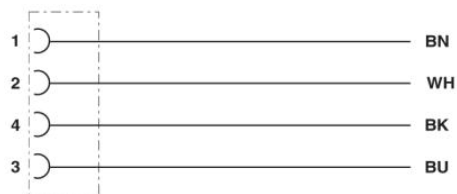
Diagrams/Drawings

Dimensioned drawing



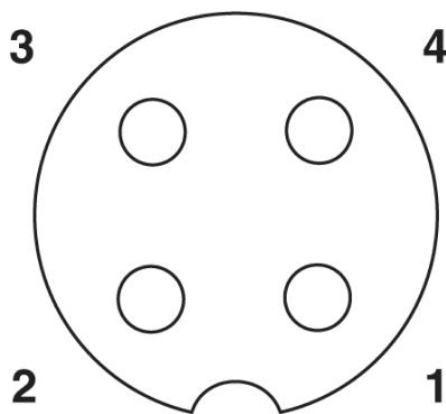
M12 x 1 female connector, straight

Circuit diagram



Contact assignment of the M12 socket

Schematic diagram



Pin assignment M12 socket, 4-pos., A-coded, view female side

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