


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

Order No.: 1454095

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Sensor/Actuator cable, 4-position, PE-X halogen-free, black-gray RAL 7021, free cable end, on Socket straight M12, A-coded, Cable length: 10 m, For outdoor applications, With high-grade steel knurl

| Commercial data | |
|--------------------------|--|
| EAN |  4 046356 568708 |
| Note | Made-to-order |
| sales group | D111 |
| Pack | 1 Pcs. |
| Customs tariff | 85444290 |
| Gross weight in pieces | 0.4528 KG |
| Net weight per piece | 0.4528 KG |
| Catalog page information | Page 153 (C-4-2013) |

Product notes

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

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| Technical data | |
|---------------------------------|---|
| Dimensions | |
| Length of cable | 10 m |
| Ambient conditions | |
| Ambient temperature (operation) | -40 °C ... 105 °C (Plug / socket) |
| | -40 °C ... 85 °C (On sudden changes in temperature (according to IEC 60512-11-4)) |

| | |
|----------------------|-------|
| Degree of protection | IP65 |
| | IP67 |
| | IP68 |
| | IP69K |

General

| | |
|------------------------------|-------------------------------|
| Rated current at 40°C | 4 A |
| Rated voltage | 250 V |
| Number of positions | 4 |
| Contact resistance | ≤ 5 mΩ |
| Insulation resistance | ≥ 100 MΩ |
| Coding | A - standard |
| Standards/regulations | M12 connector IEC 61076-2-101 |
| Status display | No |
| Protective circuit/component | Unwired |
| Pollution degree | 3 |
| Insertion/withdrawal cycles | ≥ 100 |
| Torque | 0.4 Nm (M12 connector) |

Material

| | |
|---|------------------|
| Inflammability class according to UL 94 | V0 |
| 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 |

Cable

| | |
|------------------------------------|--------------------------------------|
| Cable type | PE-X black |
| Cable type (abbreviation) | 28X |
| Cable abbreviation | Li2X2X |
| Conductor cross section | 4x 0.5 mm ² (signal line) |
| AWG signal line | 20 |
| Conductor structure signal line | 28x 0.15 mm |
| Core diameter including insulation | 1.6 mm ±0.05 mm (signal line) |

| | |
|---|--|
| Thickness, insulation | approx. 0.3 mm (Core insulation) |
| | approx. 0.6 mm (Outer cable sheath) |
| Wire colors | brown, white, blue, black |
| Overall twist | 4 wires, twisted |
| Length of twist, overall twist | 61.6 mm |
| External sheath, color | black-gray RAL 7021 |
| External cable diameter D | 5.2 mm ±0.2 mm |
| Smallest bending radius, fixed installation | 26 mm |
| Smallest bending radius, movable installation | 52 mm |
| Number of bending cycles | 2000000 |
| Bending radius | 52 mm |
| Traversing path | 10 m |
| Traversing rate | 3 m/s |
| Acceleration | 10 m/s ² |
| Cable weight | 44 kg/km |
| Outer sheath, material | PE-X |
| Material conductor insulation | PE-X |
| Conductor material | Bare Cu litz wires |
| Insulation resistance | ≥ 100 MΩ*km (at 20 °C) |
| Conductor resistance | ≤ 39 Ω/km (at 20 °C) |
| Nominal voltage, cable | ≤ 300 V AC |
| Test voltage, cable | ≥ 3000 V AC |
| 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 |
| Ambient temperature (operation) | -40 °C ... 105 °C (cable, fixed installation) |
| | -15 °C ... 105 °C (cable, flexible installation) |

Certificates / Approvals



Certification

GOST, GL

Certifications applied for:

Certification Ex:

Accessories

| Item | Designation | Description |
|------|-------------|-------------|
|------|-------------|-------------|

General

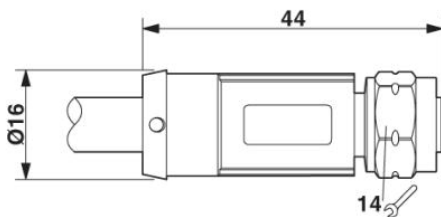
| | | |
|---------|------------------------|---|
| 1440779 | SACC-M12MS-4QO-0,75-VA | Sensor/actuator connector, Universal, 4-position, Plug straight M12, A-coded, Insulation displacement connection, Knurl material: High-grade steel, External cable diameter 4 mm ... 8 mm |
|---------|------------------------|---|

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 |
| 1212224 | TSD-M 1,2NM | Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 0.3 - 1.2 Nm |
| 1212600 | TSD-M SAC-BIT ADAPTER | Adapter bit for TSD-M...torque tools, E6.3-1/4" drive with 4 mm hexagon to accommodate SAC bits |

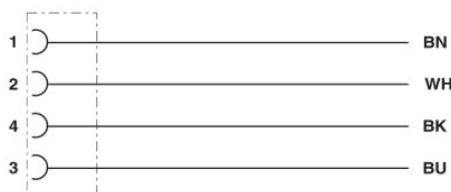
Drawings

Dimensioned drawing



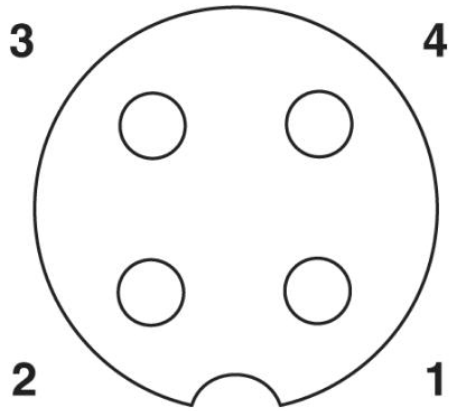
M12 x 1 socket, straight

Circuit diagram

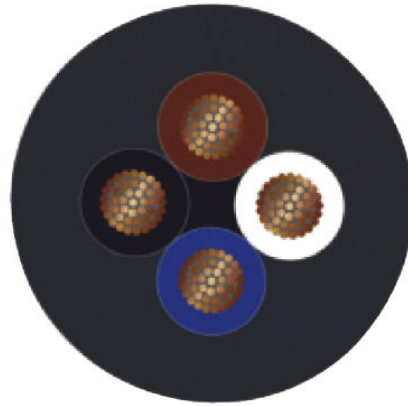


Contact assignment of the M12 socket

Schematic diagram



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



PE-X black [28X]

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