


SAC-8P-10,0-PUR/M 8FS SH

Order No.: 1404150




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Sensor/Actuator cable, 8-position, PUR halogen-free, Black RAL 9005, shielded, free cable end, on Socket straight M8, Cable length: 10 m

| Commercial data | |
|--------------------------|---|
| EAN |  4 046356 680684 |
| Note | Made-to-order |
| sales group | D132 |
| Pack | 1 Pcs. |
| Customs tariff | 85444290 |
| Gross weight in pieces | 0.4787 KG |
| Net weight per piece | 0.4787 KG |
| Catalog page information | Page 61 (C-4-2013) |

Product notes

WEEE/RoHS-compliant since: 07/19/2011



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| Technical data | |
|---------------------------------|----------------------------------|
| Dimensions | |
| Length of cable | 10 m |
| Ambient conditions | |
| Ambient temperature (operation) | -25 °C ... 85 °C (Plug / socket) |
| Degree of protection | IP65 |
| | IP67 |

General

| | |
|------------------------------|------------------------------|
| Rated current at 40°C | 1.5 A |
| Rated voltage | 30 V |
| Number of positions | 8 |
| Contact resistance | ≤ 5 mΩ |
| Insulation resistance | ≥ 100 MΩ |
| Coding | A - standard |
| Standards/regulations | M8 connector IEC 61076-2-104 |
| Status display | No |
| Protective circuit/component | Unwired |
| Pollution degree | 3 |
| Insertion/withdrawal cycles | ≥ 100 |
| Torque | 0.2 Nm (M8 connectors) |

Material

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

Cable

| | |
|------------------------------------|---|
| Cable abbreviation | Li9YV1-C-V1-11Y |
| UL AWM style | 20549 |
| Conductor cross section | 8x 0.14 mm ² (signal line) |
| AWG signal line | 26 |
| Conductor structure signal line | 18x 0.10 mm |
| Core diameter including insulation | 1 mm ±0.02 mm (signal line) |
| Thickness, insulation | ≥ 0.21 mm (signal line) ≥ 0.38 mm (Outer cable sheath) |
| Wire colors | white, brown, green, yellow, gray, pink, blue, red |
| Overall twist | 8 wires around filler to the core |
| Length of twist, overall twist | 58 mm |
| Shielding | Tinned copper braided shield |

| | |
|---|---|
| Optical shield covering | 85 % |
| External sheath, color | black-gray RAL 7021 |
| External cable diameter D | 5.9 mm ±0.2 mm |
| Smallest bending radius, fixed installation | 29.5 mm |
| Smallest bending radius, movable installation | 59 mm |
| Number of bending cycles | 2000000 |
| Bending radius | 59 mm |
| Traversing path | 10 m |
| Traversing rate | 3 m/s |
| Acceleration | 10 m/s ² |
| Outer sheath, material | PUR |
| Material, filler | PE |
| Material conductor insulation | PP |
| Conductor material | Bare Cu litz wires |
| Insulation resistance | 1 GΩ*km (at 20 °C) |
| Conductor resistance | 139 Ω/km (at 20 °C) |
| Nominal voltage, cable | ≤ 300 V AC |
| Test voltage, cable | ≥ 3000 V AC (Spark test) |
| Test voltage Core/Shield | ≥ 2000 V AC (for 60 s) |
| Flame resistance | according to UL 758/1581 (horizontal) In accordance with UL 758/1581 FT2 |
| Halogen-free | in accordance with DIN VDE 0472 part 815 in accordance with DIN EN 50267-2-1 |
| Resistance to oil | According to DIN EN 60811-2-1, 168 h at 100°C |
| Other resistance | hydrolysis and microbe resistant Resistant to salt water Low adhesion abrasion-resistant |
| Ambient temperature (operation) | -40 °C ... 80 °C (cable, fixed installation) -25 °C ... 80 °C (cable, flexible installation) |

Certificates / Approvals

Certification

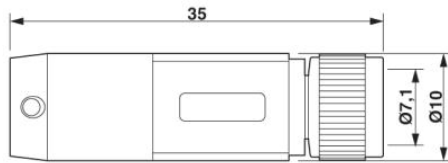
Certifications applied for:

Certification Ex:

| Accessories | | |
|--|----------------------|--|
| Item | Designation | Description |
| Marking | | |
| 1051993 | B-STIFT | Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm |
| 1013944 | PABA RD/15 | Insert label, Strip, red, unlabeled, can be labeled with: Plotter, Mounting type: Thread on, Cable diameter: 0.6-50 mm, Lettering field: 15 x 4 mm |
| 1013151 | PABA WH/15 | Insert label, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Thread on, Cable diameter: 0.6-50 mm, Lettering field: 15 x 4 mm |
| 1013698 | PABA YE/15 | Insert label, Strip, yellow, unlabeled, can be labeled with: Plotter, Mounting type: Thread on, Cable diameter: 0.6-50 mm, Lettering field: 15 x 4 mm |
| 1013038 | PATG 2/15 | Conductor marker carrier, transparent, unlabeled, Mounting type: Slide on, Cable diameter: 2-4 mm, Lettering field: 4 x 15 mm |
| 1013041 | PATG 3/15 | Conductor marker carrier, transparent, unlabeled, Mounting type: Slide on, Cable diameter: 4-7 mm, Lettering field: 4 x 15 mm |
| 1013054 | PATG 4/15 | Conductor marker carrier, transparent, unlabeled, Mounting type: Slide on, Cable diameter: 6-10 mm, Lettering field: 4 x 15 mm |
| Protection and sealing elements | | |
| 1430860 | PROT-M 8 MS-PA-CHAIN | M8 sealing cap made of plastic with fixing band for sensor cables, for M8 sockets |
| Tools | | |
| 1212207 | CUTFOX-S VDE | Diagonal cutter for copper and aluminum conductors, VDE-tested |
| 1208461 | SAC BIT M8-D10 | Nut for assembling sensor/actuator cables with M8 connector and for M8 connectors with QUICKON fast connection technology, for 4 mm hexagonal drive |
| 1208487 | TSD 02 SAC | Torque screwdriver, with preset torque of 0.2 Nm and 4 mm hexagonal drive for M8 connectors |
| 1212150 | WIREFOX 10 | Stripping tool, for cables and conductors from 0.02 - 10 mm ² , self-adjusting, stripping length of up to 18 mm, cutting capacity of up to 10 mm ² stranded/1.5 mm ² solid, replaceable stripping blade |
| 1212623 | WIREFOX SAC | Stripping pliers, for halogen-free sensor/actuator cables (SAC cables), with PUR and PVC insulation, from Ø of 4.4 to 7 mm, any stripping length |
| 1212757 | WIREFOX SAC-1 | Stripping pliers, for halogen-free sensor/actuator cables (SAC cables), with PUR and PVC insulation, from Ø of 3.2 to 4.4 mm, any stripping length |

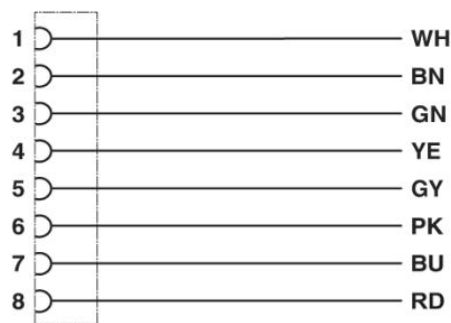
Drawings

Dimensioned drawing



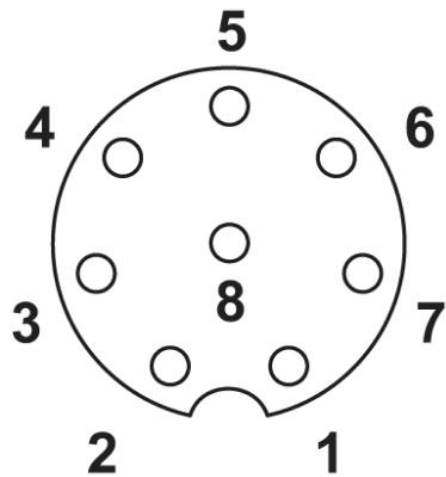
Socket M8 x 1, straight

Circuit diagram



Contact assignment of M8 socket

Schematic diagram



PUR halogen-free black shielded [PUR]

Connector pin assignment of M8 socket, 8-pos., view of socket side

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