

## Sensor/Actuator cable - SAC-6P-10,0-PUR/M 8FR SH - 1522477

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Sensor/Actuator cable, 6-position, PUR halogen-free, Black-gray RAL 7021, shielded, Free cable end, on Socket angled M8, Cable length: 10 m

### Product Features

- ✓ Easy and safe: 100% electrically tested plug-in components
- ✓ Our standard: robust halogen-free PUR cable
- ✓ Reliable signal transmission – 360° shielding in environments with electromagnetic interference



### Key commercial data

|                                      |           |
|--------------------------------------|-----------|
| Packing unit                         | 1 1       |
| Weight per Piece (excluding packing) | 458.6 GRM |
| Custom tariff number                 | 85444290  |
| Country of origin                    | Germany   |

### Technical data

#### Dimensions

|                                            |       |
|--------------------------------------------|-------|
| Length of cable                            | 10 m  |
| Stripping length of the free conductor end | 50 mm |

#### Ambient conditions

|                                 |                                  |
|---------------------------------|----------------------------------|
| Ambient temperature (operation) | -25 °C ... 90 °C (Plug / socket) |
| Degree of protection            | IP65                             |
|                                 | IP67                             |

#### General

|                       |        |
|-----------------------|--------|
| Rated current at 40°C | 1.5 A  |
| Rated voltage         | 30 V   |
| Number of positions   | 6      |
| Contact resistance    | ≤ 5 mΩ |

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### Technical data

#### General

|                             |                              |
|-----------------------------|------------------------------|
| Insulation resistance       | $\geq 100 \text{ M}\Omega$   |
| Coding                      | A - standard                 |
| Standards/regulations       | M8 connector IEC 61076-2-104 |
| Status display              | No                           |
| Surge voltage category      | II                           |
| Pollution degree            | 3                            |
| Insertion/withdrawal cycles | $\geq 100$                   |
| Torque                      | 0.2 Nm (M8 connectors)       |

#### Material

|                                         |                                             |
|-----------------------------------------|---------------------------------------------|
| Inflammability class according to UL 94 | HB                                          |
| Contact material                        | CuZn                                        |
| 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 type                                    | PUR halogen-free black shielded       |
| Cable type (abbreviation)                     | PUR                                   |
| Conductor cross section                       | 6x 0.14 mm <sup>2</sup> (signal line) |
| AWG signal line                               | 26                                    |
| Conductor structure signal line               | 18x 0.10 mm                           |
| Core diameter including insulation            | 1.05 mm $\pm$ 0.02 mm                 |
| Wire colors                                   | Brown, white, black, blue, gray, pink |
| External sheath, color                        | Black-gray RAL 7021                   |
| External cable diameter                       | 5.20 mm                               |
| Smallest bending radius, fixed installation   | 52 mm                                 |
| Smallest bending radius, movable installation | 52 mm                                 |
| Number of bending cycles                      | 4000000                               |
| Bending radius                                | 52 mm                                 |
| Traversing path                               | 10 m                                  |
| Traversing rate                               | 3 m/s                                 |
| Acceleration                                  | 10 m/s <sup>2</sup>                   |
| Cable weight                                  | 34 kg/km                              |
| Outer sheath, material                        | PUR                                   |
| Conductor material                            | Bare Cu litz wires                    |

## Sensor/Actuator cable - SAC-6P-10,0-PUR/M 8FR SH - 1522477

### Technical data

#### Cable

|                                 |                                                                     |
|---------------------------------|---------------------------------------------------------------------|
| Special properties              | Flexible cable conduit capable                                      |
|                                 | Silicone-free                                                       |
|                                 | Free of substances which would hinder coating with paint or varnish |
| Flame resistance                | in accordance with DIN UL-Style 20549                               |
| Halogen-free                    | in accordance with DIN VDE 0472 part 815                            |
| Resistance to oil               | in accordance with DIN EN 60811-2-1                                 |
| Other resistance                | Highly resistant to acids, alkaline solutions and solvents          |
|                                 | hydrolysis and microbe resistant                                    |
|                                 | partly UV-resistant in accordance with DIN EN ISO 4892-2-A          |
| Ambient temperature (operation) | -40 °C ... 80 °C (cable, fixed installation)                        |
|                                 | -5 °C ... 80 °C (cable, flexible installation)                      |

### 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 7.0 | 27061801 |
| eCl@ss 8.0 | 27061801 |

#### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC000830 |
| 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 |

### Approvals

#### Approvals

## Sensor/Actuator cable - SAC-6P-10,0-PUR/M 8FR SH - 1522477

### Approvals

Approvals

UL Listed / cUL Listed / GOST / cULus Listed

Ex Approvals

Approvals submitted

### Approval details

|                                                                                             |       |
|---------------------------------------------------------------------------------------------|-------|
| UL Listed  |       |
|                                                                                             |       |
| Nominal current I <sub>N</sub>                                                              | 4 A   |
| Nominal voltage U <sub>N</sub>                                                              | 125 V |

|                                                                                                |       |
|------------------------------------------------------------------------------------------------|-------|
| cUL Listed  |       |
|                                                                                                |       |
| Nominal current I <sub>N</sub>                                                                 | 4 A   |
| Nominal voltage U <sub>N</sub>                                                                 | 125 V |

|                                                                                          |  |
|------------------------------------------------------------------------------------------|--|
| GOST  |  |
|------------------------------------------------------------------------------------------|--|

|                                                                                                  |  |
|--------------------------------------------------------------------------------------------------|--|
| cULus Listed  |  |
|--------------------------------------------------------------------------------------------------|--|

### Accessories

Accessories

Conductor marking

## Sensor/Actuator cable - SAC-6P-10,0-PUR/M 8FR SH - 1522477

### Accessories

Insert label - PABA WH/15 - 1013151



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

Insert label - PABA YE/15 - 1013698



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

Insert label - PABA RD/15 - 1013944



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

### Cutting tools

Cable-cutting tool - CUTFOX-S VDE - 1212207



Diagonal cutter for copper and aluminum conductors, VDE-tested

### Marker carrier cable

Conductor marker carrier - PATG 2/15 - 1013038



Conductor marker carrier, transparent, Unlabeled, Mounting type: Slide on, Cable diameter: 2-4 mm, Lettering field: 4 x 15 mm

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### Accessories

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#### Conductor marker carrier - PATG 3/15 - 1013041



Conductor marker carrier, transparent, Unlabeled, Mounting type: Slide on, Cable diameter: 4-7 mm, Lettering field: 4 x 15 mm

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#### Conductor marker carrier - PATG 4/15 - 1013054



Conductor marker carrier, transparent, Unlabeled, Mounting type: Slide on, Cable diameter: 6-10 mm, Lettering field: 4 x 15 mm

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#### Marker pen

##### Marker pen - B-STIFT - 1051993



Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm

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#### Protective cap

##### Screw plug - PROT-M 8 MS-PA-CHAIN - 1430860



M8 sealing cap made of plastic with fixing band for sensor cables, for M8 sockets

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#### Screwdriver tools

## Sensor/Actuator cable - SAC-6P-10,0-PUR/M 8FR SH - 1522477

### Accessories

Tool - SAC BIT M8-D10 - 1208461



Nut for assembling sensor/actuator cables with M8 connector and for M8 connectors with QUICKON fast connection technology, for 4 mm hexagonal drive

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### Stripping tool

Stripping tool - WIREFOX SAC - 1212623



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

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Stripping tool - WIREFOX 10 - 1212150



Stripping tool, for cables and conductors from 0.02 - 10 mm<sup>2</sup>, self-adjusting, stripping length of up to 18 mm, cutting capacity of up to 10 mm<sup>2</sup> stranded/1.5 mm<sup>2</sup> solid, replaceable stripping blade

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### Torque tool

Torque screwdriver - TSD 02 SAC - 1208487



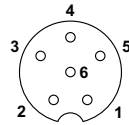
Torque screwdriver, with preset torque of 0.2 Nm and 4 mm hexagonal drive for M8 connectors

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### Drawings

## Sensor/Actuator cable - SAC-6P-10,0-PUR/M 8FR SH - 1522477

Schematic diagram



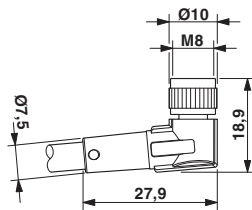
Pin assignment M8 socket, 6-pos.

Cable cross section



PUR halogen-free black shielded [PUR]

Dimensioned drawing



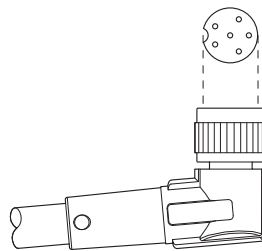
Socket M8 x 1, angled

Circuit diagram



Contact assignment of M8 socket

Schematic diagram



Layout of connector pin assignments