

## Sensor/Actuator cable - SAC-6P-10,0-PUR/M 8FS SH - 1522422

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

### Why buy this product

- ✓ 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 pc                                                                                                    |
| GTIN                                 | <br>4 046356 021173 |
| Weight per Piece (excluding packing) | 381.5 g                                                                                                 |
| Custom tariff number                 | 85444290                                                                                                |
| Country of origin                    | Poland                                                                                                  |
| Note                                 | Made to Order (non-returnable)                                                                          |

### 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    | ≤ 0.005 Ω |

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## Technical data

### General

|                              |                              |
|------------------------------|------------------------------|
| Insulation resistance        | ≥ 100 MΩ                     |
| Coding                       | A - standard                 |
| Standards/regulations        | M8 connector IEC 61076-2-104 |
| Status display               | No                           |
| Protective circuit/component | Unwired                      |
| Surge voltage category       | II                           |
| Pollution degree             | 3                            |
| Insertion/withdrawal cycles  | ≥ 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                                              |
| 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 ±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                                                  |
| Special properties                            | Flexible cable conduit capable                                      |
|                                               | Silicone-free                                                       |
|                                               | Free of substances which would hinder coating with paint or varnish |

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### Technical data

#### Cable

|                                 |                                                            |
|---------------------------------|------------------------------------------------------------|
| 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 | 27279218 |

#### 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

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UL Listed / cUL Listed / EAC / cULus Listed

## Sensor/Actuator cable - SAC-6P-10,0-PUR/M 8FS SH - 1522422

### Approvals

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 |

|     |
|-----|
| EAC |
|-----|

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

### Accessories

Accessories

Conductor marking

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

## Sensor/Actuator cable - SAC-6P-10,0-PUR/M 8FS SH - 1522422

### Accessories

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

Diagonal cutter - 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

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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### Accessories

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

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-1 - 1212757



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

## Sensor/Actuator cable - SAC-6P-10,0-PUR/M 8FS SH - 1522422

### Accessories

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

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

### Torque tool

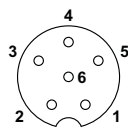
Torque screwdriver - TSD 02 SAC - 1208487



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

### Drawings

Schematic diagram



Pin assignment M8 socket, 6-pos.

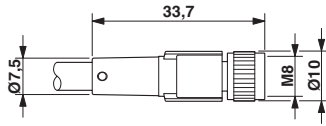
Cable cross section



PUR halogen-free black [PUR]

## Sensor/Actuator cable - SAC-6P-10,0-PUR/M 8FS SH - 1522422

Dimensioned drawing



Socket M8 x 1, straight

Circuit diagram



Contact assignment of M8 socket