

## Sensor/Actuator cable - SAC-3P- 5,0-600/M 8FS FB - 1406479

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Sensor/Actuator cable, 3-position, PP-EPDM halogen-free, Gray RAL 7035, free cable end, on Socket straight M8, Cable length: 5 m, Hygienic design, with plastic knurl

### Why buy this product

- ✓ Easy and safe: 100% electrically tested plug-in components
- ✓ Easy to clean, thanks to the special hygienic design
- ✓ Contamination can be detected quickly – thanks to the light color



### Key commercial data

|                                      |                                                                                                         |
|--------------------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit                         | 1 pc                                                                                                    |
| GTIN                                 | <br>4 046356 780476 |
| Weight per Piece (excluding packing) | 105.2 g                                                                                                 |
| Custom tariff number                 | 85444290                                                                                                |
| Country of origin                    | Poland                                                                                                  |
| Note                                 | Made to Order (non-returnable)                                                                          |

### Technical data

#### Dimensions

|                 |     |
|-----------------|-----|
| Length of cable | 5 m |
|-----------------|-----|

#### Ambient conditions

|                                 |                                   |
|---------------------------------|-----------------------------------|
| Ambient temperature (operation) | -40 °C ... 105 °C (Plug / socket) |
| Degree of protection            | IP65                              |
|                                 | IP67                              |
|                                 | IP68                              |
|                                 | IP69K                             |

#### General

|                       |      |
|-----------------------|------|
| Rated current at 40°C | 4 A  |
| Rated voltage         | 60 V |
| Number of positions   | 3    |

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## Technical data

### General

|                              |                                          |
|------------------------------|------------------------------------------|
| Contact resistance           | ≤ 5 mΩ                                   |
| Insulation resistance        | ≥ 100 MΩ                                 |
| Coding                       | A - standard                             |
| Standards/regulations        | M8 connector IEC 61076-2-104             |
|                              | Material conformance FDA 21 CFR 177.2600 |
| 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

|                          |               |
|--------------------------|---------------|
| Contact material         | CuSn          |
| Contact surface material | Ni/Au         |
| Contact carrier material | PP            |
| Material of grip body    | PP            |
| Material, knurls         | Polypropylene |
| Sealing material         | FKM           |

### Cable

|                                                 |                                       |
|-------------------------------------------------|---------------------------------------|
| Cable type                                      | Halogen-free PP gray                  |
| Cable type (abbreviation)                       | 600                                   |
| Cable abbreviation                              | Li9Y14Y                               |
| Conductor cross section                         | 3x 0.25 mm <sup>2</sup> (signal line) |
| AWG signal line                                 | 24                                    |
| Conductor structure signal line                 | 32x 0.10 mm                           |
| Core diameter including insulation              | 1.17 mm ±0.02 mm (signal line)        |
| Thickness, insulation                           | ≥ 0.21 mm (Core insulation)           |
| Wire colors                                     | brown, blue, black                    |
| Overall twist                                   | 3 wires, twisted                      |
| Length of twist, overall twist                  | 40 mm                                 |
| External sheath, color                          | Gray RAL 7035                         |
| Outer sheath thickness                          | approx. 0.8 mm                        |
| External cable diameter D                       | 4.2 mm ±0.15 mm                       |
| Minimum bending radius, fixed installation      | 5 x D                                 |
| Minimum bending radius, flexible installation   | 10 x D                                |
| Number of bending cycles                        | 4000000                               |
| Minimum bending radius, drag chain applications | 10 x D                                |
| Traversing path                                 | 10 m                                  |
| Traversing rate                                 | 3 m/s                                 |
| Acceleration                                    | 10 m/s <sup>2</sup>                   |

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### Technical data

#### Cable

|                                 |                                                                                  |
|---------------------------------|----------------------------------------------------------------------------------|
| Cable weight                    | 19 kg/km                                                                         |
| Outer sheath, material          | PP-EPDM                                                                          |
| Material conductor insulation   | PP                                                                               |
| Conductor material              | Bare Cu litz wires                                                               |
| Insulation resistance           | $\geq 1 \text{ G}\Omega \cdot \text{km}$ (at 20 °C)                              |
| Conductor resistance            | 78 $\Omega/\text{km}$ (at 20 °C)                                                 |
| Nominal voltage, cable          | $\leq 300 \text{ V AC}$                                                          |
| Test voltage, cable             | $\geq 3000 \text{ V AC}$ (Spark test)                                            |
| Special properties              | FDA compliant according to FDA 21 CFR 177.2600                                   |
|                                 | highly flexible                                                                  |
|                                 | partly suitable for use with drag chain                                          |
| Halogen-free                    | in accordance with DIN VDE 0472 part 815                                         |
|                                 | in accordance with DIN EN 50267-2-1                                              |
| Other resistance                | Resistant to cold bending and cold impacts According to DIN EN 60811-1-4 (-40°C) |
| Ambient temperature (operation) | -40 °C ... 105 °C (cable, fixed installation)                                    |
|                                 | -25 °C ... 105 °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 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 |

## Sensor/Actuator cable - SAC-3P- 5,0-600/M 8FS FB - 1406479

### Accessories

#### Accessories

#### Cutting tools

Diagonal cutter - CUTFOX-S VDE - 1212207



Diagonal cutter for copper and aluminum conductors, VDE-tested

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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 - 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 mm², self-adjusting, stripping length of up to 18 mm, cutting capacity of up to 10 mm² stranded/1.5 mm² 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

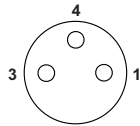
## Sensor/Actuator cable - SAC-3P- 5,0-600/M 8FS FB - 1406479

### Accessories

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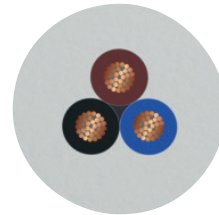
### Drawings

Schematic diagram



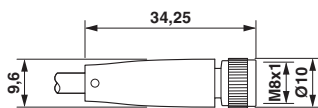
Pin assignment M8 socket, 3-pos., view female side

Cable cross section



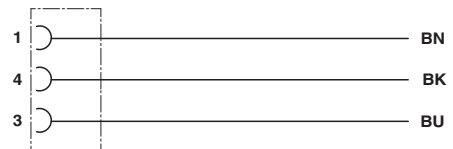
Halogen-free PP gray [600]

Dimensioned drawing



Socket M8 x 1, straight

Circuit diagram



Contact assignment of M8 socket