

## Sensor/Actuator cable - SAC-4P-M 8FS/30,0-PUR/M 8FS SH - 1549078

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://download.phoenixcontact.com>)

Sensor/Actuator cable, 4-position, PUR halogen-free, Black-gray RAL 7021, shielded, Socket straight M8, on Socket straight M8, Cable length: 30 m



### Key commercial data

|                                      |             |
|--------------------------------------|-------------|
| Packing unit                         | 1 1         |
| Minimum order quantity               | 25 1        |
| Weight per Piece (excluding packing) | 1117.74 GRM |
| Custom tariff number                 | 85366990    |
| Country of origin                    | Poland      |

### Technical data

#### Dimensions

|                 |      |
|-----------------|------|
| Length of cable | 30 m |
|-----------------|------|

#### Ambient conditions

|                      |      |
|----------------------|------|
| Degree of protection | IP65 |
|                      | IP67 |

#### General

|                        |              |
|------------------------|--------------|
| Rated current at 40°C  | 4 A          |
| Rated voltage          | 30 V         |
| Number of positions    | 4            |
| Contact resistance     | ≤ 5 mΩ       |
| Insulation resistance  | ≥ 100 MΩ     |
| Coding                 | A - standard |
| Status display         | No           |
| Surge voltage category | II           |
| Pollution degree       | 3            |

#### Material

|   |       |
|---|-------|
| Inflammability class according to UL 94 | HB    |
| Contact material                        | CuSn  |
| Contact surface material                | Ni/Au |

## Sensor/Actuator cable - SAC-4P-M 8FS/30,0-PUR/M 8FS SH - 1549078

### Technical data

#### Material

|                          |   |
|--------------------------|---|
| 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 abbreviation                            | Li9Y-V1-C-V1-11Y                    |
| Conductor cross section                       | 0.25 mm <sup>2</sup>                |
| AWG signal line                               | 24                                  |
| Conductor structure signal line               | 32x 0.10 mm                         |
| Core diameter including insulation            | 1.17 mm ±0.02 mm                    |
| Thickness, insulation                         | ≥ 0.21 mm (Core insulation)         |
|   | approx. 0.7 mm (Outer cable sheath) |
| Wire colors                                   | brown, white, blue, black           |
| Overall twist                                 | 4 wires, twisted                    |
| Shielding                                     | Tinned copper braided shield        |
| Optical shield covering                       | 85 %                                |
| External sheath, color                        | Black-gray RAL 7021                 |
| External cable diameter                       | 5.00 mm                             |
| Smallest bending radius, fixed installation   | 50 mm                               |
| Smallest bending radius, movable installation | 50 mm                               |
| Number of bending cycles                      | 4000000                             |
| Bending radius                                | 50 mm                               |
| Traversing path                               | 10 m                                |
| Traversing rate                               | 3 m/s                               |
| Acceleration                                  | 10 m/s <sup>2</sup>                 |
| Cable weight                                  | 36 kg/km                            |
| Outer sheath, material                        | PUR                                 |
| Material conductor insulation                 | PP                                  |
| Conductor material                            | Bare Cu litz wires                  |
| Insulation resistance                         | ≥ 100 GΩ*km                         |
| Conductor resistance                          | max. 78 Ω/km                        |
| Nominal voltage, cable                        | ≤ 300 V                             |
| Test voltage, cable                           | ≥ 3000 V                            |

# Sensor/Actuator cable - SAC-4P-M 8FS/30,0-PUR/M 8FS SH - 1549078

## 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 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

---

Approvals

UL Listed / cUL Listed / cULus Listed

---

Ex Approvals

---

Approvals submitted

---

Approval details

# Sensor/Actuator cable - SAC-4P-M 8FS/30,0-PUR/M 8FS SH - 1549078

## Approvals

|                    |       |
|--------------------|-------|
| UL Listed          |       |
| Nominal current IN | 4 A   |
| Nominal voltage UN | 125 V |

|                    |       |
|--------------------|-------|
| cUL Listed         |       |
| Nominal current IN | 4 A   |
| Nominal voltage UN | 125 V |

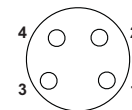
|              |  |
|--------------|--|
| cULus Listed |  |
|--------------|--|

## Drawings

Circuit diagram

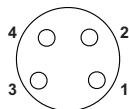
Contact assignment of M8 socket

Schematic diagram



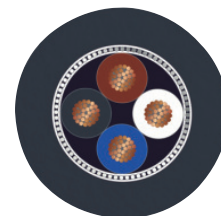
Pin assignment M8 socket, 4-pos., view female side

Schematic diagram



Pin assignment M8 socket, 4-pos., view female side

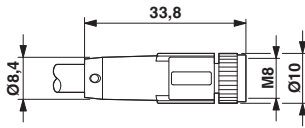
Cable cross section



PUR halogen-free black shielded [PUR]

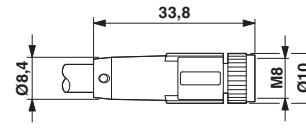
## Sensor/Actuator cable - SAC-4P-M 8FS/30,0-PUR/M 8FS SH - 1549078

Dimensioned drawing



Socket M8 x 1, straight, shielded

Dimensioned drawing



Socket M8 x 1, straight, shielded