

## Sensor/actuator cable - SAC-4P- 5,0-100/M 8FR BK ONB - 1562398

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Sensor/actuator cable, 4-position, PUR/PVC, gray RAL 7001, free cable end, on Socket angled M8, cable length: 5 m

RoHS

### Key Commercial Data

|                        |                                                                                                       |
|------------------------|-------------------------------------------------------------------------------------------------------|
| Packing unit           | 50 pc                                                                                                 |
| Minimum order quantity | 100 pc                                                                                                |
| GTIN                   | <br>4 046356 293495 |
| GTIN                   | 4046356293495                                                                                         |

### Technical data

#### Dimensions

|                                            |       |
|--------------------------------------------|-------|
| Length of cable                            | 5 m   |
| Stripping length of the free conductor end | 50 mm |

#### Ambient conditions

|                      |      |
|----------------------|------|
| Degree of protection | IP65 |
|                      | IP67 |
|                      | IP68 |

#### General

|                       |              |
|-----------------------|--------------|
| Rated current at 40°C | 4 A          |
| Rated voltage         | 48 V AC      |
|                       | 60 V DC      |
| Number of positions   | 4            |
| Insulation resistance | ≥ 100 MΩ     |
| Coding                | A - standard |
| Status display        | No           |
| Overvoltage category  | II           |
| Degree of pollution   | 3            |

#### Material

|                                        |       |
|----------------------------------------|-------|
| Flammability rating according to UL 94 | HB    |
| Contact material                       | CuSn  |
| Contact surface material               | Ni/Au |

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## 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                                         |

### Standards and Regulations

|                                        |    |
|----------------------------------------|----|
| Flammability rating according to UL 94 | HB |
|----------------------------------------|----|

### Cable

|                                               |                                                |
|-----------------------------------------------|------------------------------------------------|
| Cable type                                    | PUR/PVC gray                                   |
| Cable type (abbreviation)                     | 100                                            |
| Cable abbreviation                            | LiYY-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            | 1.32 mm ±0.02 mm                               |
| Thickness, insulation                         | ≥ 0.23 mm (Core insulation)                    |
|                                               | ≥ 0.38 mm (Outer cable sheath)                 |
|                                               | approx. 3.8 mm ±0.1 mm (Inner sheath)          |
| Wire colors                                   | brown, white, blue, black                      |
| Overall twist                                 | 4 wires, twisted                               |
| External sheath, color                        | gray RAL 7001                                  |
| External cable diameter D                     | 4.7 mm ±0.2 mm                                 |
| Smallest bending radius, fixed installation   | 47 mm                                          |
| Smallest bending radius, movable installation | 47 mm                                          |
| Number of bending cycles                      | 2000000                                        |
| Bending radius                                | 47 mm                                          |
| Traversing path                               | 5 m                                            |
| Traversing rate                               | 3 m/s                                          |
| Cable weight                                  | 32 kg/km                                       |
| Outer sheath, material                        | PUR                                            |
| Material, inner sheath                        | PVC                                            |
| Material conductor insulation                 | PVC                                            |
| Conductor material                            | Bare Cu litz wires                             |
| Insulation resistance                         | ≥ 100 MΩ*km (at 20 °C)                         |
| Conductor resistance                          | max. 78 Ω/km (at 20 °C)                        |
| Nominal voltage, cable                        | ≤ 300 V                                        |
| Test voltage, cable                           | ≥ 3000 V                                       |
| Flame resistance                              | in accordance with DIN UL-Style 20549          |
| Ambient temperature (operation)               | -25 °C ... 80 °C (cable, fixed installation)   |
|                                               | -5 °C ... 80 °C (cable, flexible installation) |

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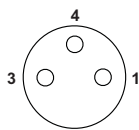
Technical data

Environmental Product Compliance

|            |                                                         |
|------------|---------------------------------------------------------|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|            | No hazardous substances above threshold values          |

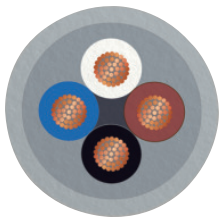
Drawings

Schematic diagram



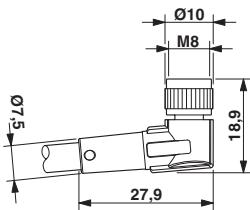
Pin assignment M8 socket, 3-pos., view female side

Cable cross section



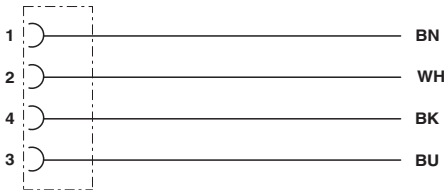
PUR/PVC gray [100]

Dimensional drawing



Socket M8 x 1, angled

Circuit diagram



Contact assignment of M8 plugs/sockets

Approvals

Approvals

Approvals

UL Listed / cUL Listed / cULus Listed

Ex Approvals

Approval details

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### Approvals

|                    |                                                                                   |                                                                                                                                                       |               |
|--------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| UL Listed          |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 221474 |
|                    |                                                                                   |                                                                                                                                                       |               |
| Nominal voltage UN |                                                                                   | 30 V                                                                                                                                                  |               |
| Nominal current IN |                                                                                   | 4 A                                                                                                                                                   |               |

|                    |                                                                                   |                                                                                                                                                       |               |
|--------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| cUL Listed         |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 221474 |
|                    |                                                                                   |                                                                                                                                                       |               |
| Nominal voltage UN |                                                                                   | 30 V                                                                                                                                                  |               |
| Nominal current IN |                                                                                   | 4 A                                                                                                                                                   |               |

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

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