

## Sensor/actuator cable - SAC-3P- 5,0-500/M 8FS KA - 1401045

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Sensor/actuator cable, 3-position, PVC, gray RAL 7001, free cable end, on Socket straight M8, cable length: 5 m

RoHS

### Key Commercial Data

|                        |                                                                                                       |
|------------------------|-------------------------------------------------------------------------------------------------------|
| Packing unit           | 1 pc                                                                                                  |
| Minimum order quantity | 25 pc                                                                                                 |
| GTIN                   | <br>4 046356 519342 |
| GTIN                   | 4046356519342                                                                                         |

### 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   | 3            |
| 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                         | PVC gray                                        |
| Cable type (abbreviation)          | PVC                                             |
| Cable abbreviation                 | LiYY                                            |
| Conductor cross section            | 3x 0.25 mm <sup>2</sup> (Signal line)           |
| AWG signal line                    | 24                                              |
| Conductor structure signal line    | 14x 0.15 mm                                     |
| Core diameter including insulation | 1.17 mm ±0.05 mm                                |
| Thickness, insulation              | ≥ 0.23 mm (Core insulation)                     |
| Wire colors                        | brown, blue, black                              |
| Overall twist                      | 3 wires, twisted                                |
| External sheath, color             | gray                                            |
| Outer sheath thickness             | ≥ 0.76 mm                                       |
| External cable diameter D          | 4.2 mm ±0.15 mm                                 |
| Cable weight                       | 29 kg/km                                        |
| Outer sheath, material             | PVC                                             |
| Material conductor insulation      | PVC                                             |
| Conductor material                 | Bare Cu litz wires                              |
| Insulation resistance              | ≥ 100 MΩ*km (at 20 °C)                          |
| Conductor resistance               | max. 79 Ω/km (at 20 °C)                         |
| Nominal voltage, cable             | ≥ 300 V                                         |
| Test voltage, cable                | ≤ 3000 V                                        |
| Flame resistance                   | As per UL-Style 2464                            |
| Ambient temperature (operation)    | -40 °C ... 80 °C (cable, fixed installation)    |
|                                    | -25 °C ... 80 °C (cable, flexible installation) |

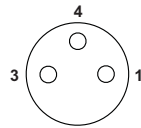
### Environmental Product Compliance

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

## Drawings

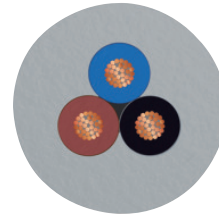
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Schematic diagram



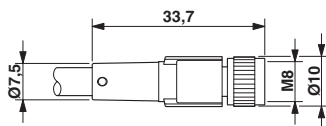
Pin assignment M8 socket, 3-pos., view female side

Cable cross section



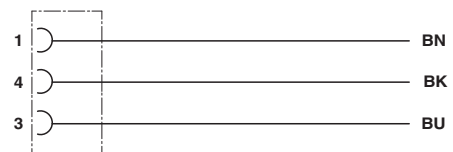
PVC gray [PVC]

Dimensional drawing



Socket M8 x 1, straight

Circuit diagram



Contact assignment of M8 socket

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