


# Sensor/actuator cable - SAC-3P-M12MS/ 5,0-PUR/4P-M 8FS - 1562673

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Sensor/actuator cable, 3-position, PUR halogen-free, black-gray RAL 7021, Plug straight M12, A-coded, on Socket straight M8, cable length: 5 m

## Key Commercial Data

|                        |   |
|------------------------|---|
| Packing unit           | 5 pc  |
| Minimum order quantity | 25 pc   |
| GTIN                   | <br>4 046356 298438 |
| GTIN                   | 4046356298438   |

## Technical data

### Dimensions

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

### Ambient conditions

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

### General

|                             |              |
|-----------------------------|--------------|
| Rated current at 40°C       | 4 A          |
| Rated voltage               | 30 V         |
| Number of positions         | 3            |
| Coding                      | A - standard |
| Status display              | No           |
| Overvoltage category        | II           |
| Degree of pollution         | 3            |
| Insertion/withdrawal cycles | ≥ 100        |

### Material

|  |   |
|--|---|
| Flammability rating according to UL 94 | HB  |
| Contact material                       | CuSn  |
| Contact surface material               | Ni/Au                                       |
| Contact carrier material               | TPU GF                                      |
| Material of grip body                  | TPU, hardly inflammable, self-extinguishing |

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## Technical data

### Material

|                  |                              |
|------------------|------------------------------|
| Material, knurls | Zinc die-cast, nickel-plated |
| Sealing material | NBR                          |

### Standards and Regulations

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

### Cable

|   |   |
|---|---|
| Cable type                                    | PUR halogen-free black  |
| Cable type (abbreviation)                     | PUR   |
| Cable abbreviation                            | Li9Y11Y-HF  |
| Conductor cross section                       | 4x 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)   |
|   | approx. 0.5 mm (Outer cable sheath)                                 |
| Wire colors                                   | brown, white, blue, black   |
| Overall twist                                 | 4 wires, twisted  |
| External sheath, color                        | black-gray RAL 7021   |
| External cable diameter D                     | 3.95 mm ±0.15 mm  |
| Smallest bending radius, fixed installation   | 20 mm   |
| Smallest bending radius, movable installation | 40 mm   |
| Number of bending cycles                      | 10000000  |
| Bending radius                                | 44 mm   |
| Traversing path                               | 10 m  |
| Traversing rate                               | 3 m/s   |
| Acceleration                                  | 5 m/s <sup>2</sup>  |
| Cable weight                                  | 23 kg/km  |
| Outer sheath, material                        | PUR   |
| Material conductor insulation                 | PP  |
| Conductor material                            | Bare Cu litz wires  |
| Insulation resistance                         | ≥ 100 GΩ*km (at 20 °C)  |
| Conductor resistance                          | max. 78 Ω/km (at 20 °C)   |
| Nominal voltage, cable                        | ≤ 300 V   |
| Test voltage, cable                           | ≥ 3000 V  |
| Special properties                            | Flexible cable conduit capable                                      |
|   | Silicone-free   |
|   | Free of substances which would hinder coating with paint or varnish |
| Flame resistance                              | in accordance with UL 758/1581 FT2                                  |
|   | DIN EN 60332-2-2 (20 s)   |
| Halogen-free                                  | in accordance with DIN VDE 0472 part 815                            |
| Resistance to oil                             | in accordance with DIN EN 60811-2-1                                 |

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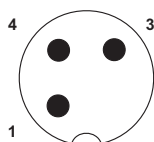
## Technical data

### Cable

|                                 |  |
|---------------------------------|--|
| 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)               |
|                                 | -25 °C ... 80 °C (cable, flexible installation)            |

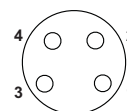
## Drawings

Schematic diagram



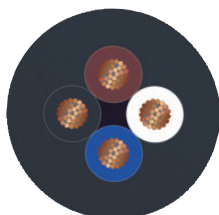
Pin assignment M12, 3-pos.

Schematic diagram



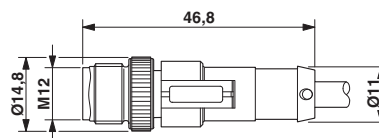
Pin assignment M8 socket, 4-pos., view female side

Cable cross section



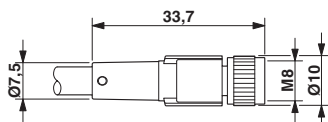
PUR halogen-free black [PUR]

Dimensional drawing



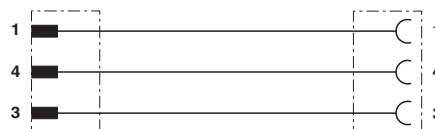
Plug, M12 x 1, straight, shielded

Dimensional drawing



Socket M8 x 1, straight

Circuit diagram



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