

# Sensor/actuator cable - SAC-4P-M12MS/0,6-PUR/ M12FSSH BK - 1553899

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Sensor/actuator cable, 4-position, PUR/PVC, black-gray RAL 7021, shielded, Plug straight M12, A-coded, on Socket straight M12, A-coded, cable length: 0.6 m

As in the figure, but with a black handle



## Key Commercial Data

|                        |   |
|------------------------|---|
| Packing unit           | 5 STK   |
| Minimum order quantity | 50 STK  |
| GTIN                   | <br>4 046356 160001 |
| GTIN                   | 4046356160001   |

## Technical data

### Dimensions

|                 |       |
|-----------------|-------|
| Length of cable | 0.6 m |
|-----------------|-------|

### Ambient conditions

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

### General

|                       |              |
|-----------------------|--------------|
| Rated current at 40°C | 4 A          |
| Rated voltage         | 250 V AC     |
|                       | 250 V DC     |
| Number of positions   | 4            |
| Insulation resistance | ≥ 100 MΩ     |
| Coding                | A - standard |
| Status display        | No           |
| Overvoltage category  | II           |

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## Technical data

### General

|                             |       |
|-----------------------------|-------|
| 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 |
| 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 shielded, black        |
| Cable type (abbreviation)                     | 350                            |
| Cable abbreviation                            | LiYYV1CY11Y                    |
| Conductor cross section                       | 0.34 mm <sup>2</sup>           |
| AWG signal line                               | 22                             |
| Conductor structure signal line               | 42x 0.10 mm                    |
| Core diameter including insulation            | 1.52 mm ±0.02 mm               |
| Thickness, insulation                         | ≥ 0.23 mm (Core insulation)    |
|   | ≥ 0.38 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                       | 5.90 mm                        |
| Smallest bending radius, fixed installation   | 59 mm                          |
| Smallest bending radius, movable installation | 59 mm                          |
| Number of bending cycles                      | 2000000                        |
| Bending radius                                | 59 mm                          |
| Traversing path                               | 5 m                            |
| Traversing rate                               | 3 m/s                          |
| Cable weight                                  | 50 kg/km                       |
| Outer sheath, material                        | PUR                            |
| Material, inner sheath                        | PVC                            |
| Material conductor insulation                 | PVC                            |

# Sensor/actuator cable - SAC-4P-M12MS/0,6-PUR/ M12FSSH BK - 1553899

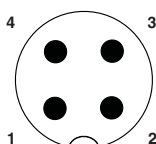
## Technical data

### Cable

|                                 |  |
|---------------------------------|--|
| Conductor material              | Bare Cu litz wires                             |
| Insulation resistance           | $\geq 100 \text{ M}\Omega \cdot \text{km}$     |
| Conductor resistance            | $\leq 57.3 \text{ }\Omega/\text{km}$           |
| Nominal voltage, cable          | 300 V  |
| Test voltage, cable             | 3000 V   |
| Ambient temperature (operation) | -25 °C ... 80 °C (cable, fixed installation)   |
|                                 | -5 °C ... 80 °C (cable, flexible installation) |

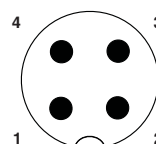
## Drawings

Schematic diagram



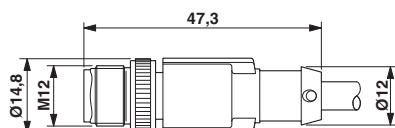
Pin assignment M12 plug, 4-pos., A-coded, view plug side

Schematic diagram



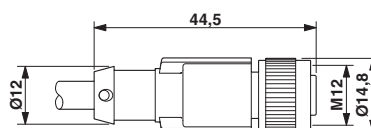
Pin assignment M12 socket, 4-pos., A-coded, view female side

Dimensional drawing



Plug, M12 x 1, straight, shielded

Dimensional drawing



M12 x 1 socket, straight, shielded

## Approvals

### Approvals

Approvals


UL Listed / cUL Listed / cULus Listed


Ex Approvals


### Approval details

# Sensor/actuator cable - SAC-4P-M12MS/0,6-PUR/ M12FSSHBK - 1553899

## 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 |   | 300 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 |
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|              |   |  |  |
|--------------|---|--|--|
| cULus Listed |  |  |  |
|--------------|---|--|--|

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