

## Sensor/Actuator cable - SAC-4P-M12MS/ 6,0-PUR/M12FS - 1504628

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Sensor/Actuator cable, 4-position, PUR/PVC, black RAL 9005, Plug straight M12, A-coded, on Socket straight M12, A-coded, Cable length: 6 m



### Key Commercial Data

|                                      |          |
|--------------------------------------|----------|
| Packing unit                         | 1 pc     |
| Weight per Piece (excluding packing) | 191.2 g  |
| Custom tariff number                 | 85444290 |
| Country of origin                    | Germany  |

### Technical data

#### Dimensions

|                 |     |
|-----------------|-----|
| Length of cable | 6 m |
|-----------------|-----|

#### Ambient conditions

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

#### General

|                             |              |
|-----------------------------|--------------|
| Rated current at 40°C       | 4 A          |
| Rated voltage               | 250 V        |
| Number of positions         | 4            |
| Insulation resistance       | ≥ 100 MΩ     |
| Coding                      | A - standard |
| Status display              | No           |
| Overvoltage category        | II           |
| Degree of pollution         | 3            |
| Insertion/withdrawal cycles | ≥ 100        |

## Sensor/Actuator cable - SAC-4P-M12MS/ 6,0-PUR/M12FS - 1504628

### Technical data

#### 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 black                    |
| Cable type (abbreviation)                     | 350                              |
| Cable abbreviation                            | LiYY-11Y                         |
| UL AWM style                                  | 20549                            |
| 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            | 1.5 mm ±0.05 mm                  |
| Thickness, insulation                         | approx. 0.3 mm (Core insulation) |
|                                               | approx. 0.35 mm (Inner sheath)   |
|                                               | ≥ 0.38 mm (Outer cable sheath)   |
| Wire colors                                   | brown, white, blue, black        |
| Overall twist                                 | 4 wires, twisted                 |
| External sheath, color                        | black RAL 9005                   |
| External cable diameter D                     | 5.2 mm ±0.2 mm                   |
| Smallest bending radius, fixed installation   | 52 mm                            |
| Smallest bending radius, movable installation | 52 mm                            |
| Number of bending cycles                      | 2000000                          |
| Bending radius                                | 52 mm                            |
| Traversing path                               | 5 m                              |
| Traversing rate                               | 3 m/s                            |
| Cable weight                                  | 39 kg/km                         |
| Outer sheath, material                        | PUR                              |
| Material, inner sheath                        | PVC                              |
| Material conductor insulation                 | PVC                              |
| Conductor material                            | Bare Cu litz wires               |

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### Technical data

#### Cable

|                                 |                                                     |
|---------------------------------|-----------------------------------------------------|
| Insulation resistance           | $\geq 1 \text{ G}\Omega \cdot \text{km}$ (at 20 °C) |
| Conductor resistance            | max. 58 $\Omega/\text{km}$ (at 20 °C)               |
| Nominal voltage, cable          | $\leq 300 \text{ V}$                                |
| Test voltage, cable             | $\geq 3000 \text{ V}$                               |
| 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)      |

### 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 | 27279218 |
| eCl@ss 9.0 | 27060311 |

#### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC000830 |
| 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

## Sensor/Actuator cable - SAC-4P-M12MS/ 6,0-PUR/M12FS - 1504628

### Approvals

Approvals

UL Listed / cUL Listed / cULus Listed

Ex Approvals

Approvals submitted

### Approval details

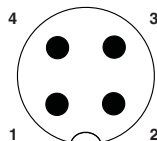
|                                                                                             |       |
|---------------------------------------------------------------------------------------------|-------|
| UL Listed  |       |
| Nominal current I <sub>N</sub>                                                              | 4 A   |
| Nominal voltage U <sub>N</sub>                                                              | 300 V |

|                                                                                                |       |
|------------------------------------------------------------------------------------------------|-------|
| cUL Listed  |       |
| Nominal current I <sub>N</sub>                                                                 | 4 A   |
| Nominal voltage U <sub>N</sub>                                                                 | 300 V |

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

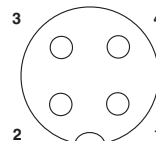
### Drawings

Schematic diagram



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

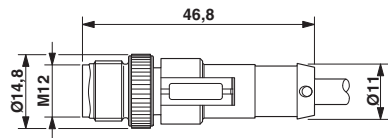
Schematic diagram



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

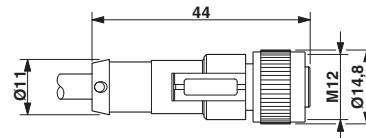
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Dimensional drawing



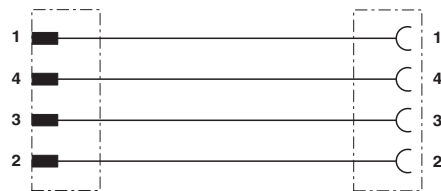
M12 x 1 plug, straight

Dimensional drawing



M12 x 1 socket, straight

Circuit diagram



Contact assignment of the M12 connector and the M12 socket



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