

## SAC-4P-M12MS/ 0,5-186/M12FS

Order No.: 1509539



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=1509539>

Sensor/Actuator cable, 4-position, PUR, Black-gray RAL 7021, Plug, straight M12, A-coded, on Socket, straight M12, A-coded, Cable length: 0.5 m

### Commercial data

|                          |                   |
|--------------------------|-------------------|
| GTIN (EAN)               | 4017918899172     |
| sales group              | D111              |
| Pack                     | 1 pcs.            |
| Customs tariff           | 85444290          |
| Weight/Piece             | 0.0485 KG         |
| Catalog page information | Page 12 (PC-2005) |

### Product notes

WEEE/RoHS-compliant since:  
11/07/2006



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### Technical data

#### General data

|                       |        |
|-----------------------|--------|
| Rated current at 40°C | 4 A    |
| Rated voltage         | 250 V  |
| Number of positions   | 4      |
| Volume resistance     | ≤ 5 mΩ |

|                                 |                                                      |
|---------------------------------|------------------------------------------------------|
| Insulation resistance           | $\geq 100 \text{ M}\Omega$                           |
| Length of cable                 | 0.5 m                                                |
| Ambient temperature (operation) | -25 °C ... 90 °C (Male connector / female connector) |

#### General characteristics

|                             |                                             |
|-----------------------------|---------------------------------------------|
| Coding                      | A - standard                                |
| Surge voltage category      | II                                          |
| Pollution degree            | 3                                           |
| Degree of protection        | IP65/IP68/IP69K                             |
| Insertion/withdrawal cycles | $\geq 100$                                  |
| 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                                         |
| Status display              | No                                          |

#### Conductor data

|                                    |                                             |
|------------------------------------|---------------------------------------------|
| Cable type                         | PUR POWER 0.75 mm <sup>2</sup> black        |
| Cable type (abbreviation)          | 186                                         |
| Cable abbreviation                 | LiY11Y                                      |
| Conductor cross section            | 0.75 mm <sup>2</sup>                        |
| AWG signal line                    | 18                                          |
| Conductor structure signal line    | 42x 0.15 mm                                 |
| Core diameter including insulation | 1.75 mm $\pm$ 0.05 mm                       |
| Thickness, insulation              | $\geq 0.23 \text{ mm}$ (Core insulation)    |
|                                    | $\geq 0.76 \text{ mm}$ (Outer cable sheath) |
| External cable diameter            | 5.90 mm                                     |
| Wire colors                        | Brown, white, blue, black                   |
| External sheath, color             | Black-gray RAL 7021                         |
| Insulation resistance              | $\geq 1 \text{ M}\Omega \cdot \text{km}$    |
| Conductor resistance               | max. 26 $\Omega/\text{km}$                  |
| Nominal voltage, conductor         | $\leq 300 \text{ V}$                        |
| Test voltage, conductor            | $\geq 3000 \text{ V}$                       |
| Overall twist                      | 4 wires, twisted                            |

|                                               |                                                                                                |
|-----------------------------------------------|------------------------------------------------------------------------------------------------|
| Outer sheath, material                        | PUR                                                                                            |
| Material conductor insulation                 | PVC                                                                                            |
| Conductor material                            | Bare Cu litz wires                                                                             |
| Cable weight                                  | 57 kg/km                                                                                       |
| 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                                                                                          |
| Acceleration                                  | 5 m/s <sup>2</sup>                                                                             |
| Ambient temperature (operation)               | -25 °C ... 80 °C (cable, fixed installation)<br>-5 °C ... 80 °C (cable, flexible installation) |
| Flame resistance                              | in accordance with DIN UL-Style 20549                                                          |

#### Certificates / Approvals

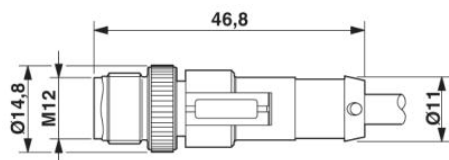


Certification

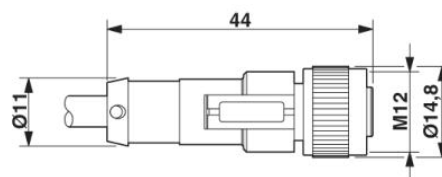
CUL Listed, UL Listed

#### Diagrams/Drawings

Dimensioned drawing

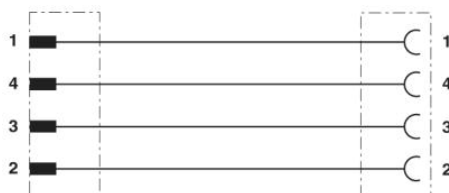


M12 x 1 male connector, straight



M12 x 1 female connector, straight

Circuit diagram



Contact assignment of the M12 connector and the M12 socket

Schematic diagram

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



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

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