

# SAC-4P-MS/ 5,0-186/FS SCO

Order No.: 1555729



Sensor/Actuator cable, 4-position, PUR, Black-gray RAL 7021, Plug, straight M12-SPEEDCON, A-coded, on Socket, straight M12-SPEEDCON, A-coded, Cable length: 5 m



## Commercial data

|                          |                                                                                                       |
|--------------------------|-------------------------------------------------------------------------------------------------------|
| EAN                      | <br>4 046356 173728 |
| Note                     | Made-to-order                                                                                         |
| Pack                     | 1                                                                                                     |
| Customs tariff           | 85444290                                                                                              |
| Catalog page information | Page 286 (PC-2009)                                                                                    |

## Product notes

WEEE/RoHS-compliant since:  
2006-11-17



## Technical data

### General data

|                       |                            |
|-----------------------|----------------------------|
| Rated current at 40°C | 4 A                        |
| Rated voltage         | 250 V                      |
| Number of positions   | 4                          |
| Volume resistance     | $\leq 5 \text{ m}\Omega$   |
| Insulation resistance | $\geq 100 \text{ M}\Omega$ |
| Length of cable       | 5 m                        |

|                                    |                                                      |
|------------------------------------|------------------------------------------------------|
| Ambient temperature (operation)    | -25 °C ... 90 °C (Male connector / female connector) |
| <b>General characteristics</b>     |                                                      |
| Coding                             | A - standard                                         |
| Surge voltage category             | II                                                   |
| Pollution degree                   | 3                                                    |
| Degree of protection               | IP65/IP68/IP69K                                      |
| 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                                                   |
| <b>Conductor data</b>              |                                                      |
| 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 ±0.05 mm                                     |
| Thickness, insulation              | ≥ 0.23 mm (Core insulation)                          |
|                                    | ≥ 0.76 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              | ≥ 1 MΩ*km                                            |
| Conductor resistance               | max. 26 Ω/km                                         |
| Nominal voltage, conductor         | ≤ 300 V                                              |
| Test voltage, conductor            | ≥ 3000 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)   |
|                                               | -5 °C ... 80 °C (cable, flexible installation) |
| Flame resistance                              | in accordance with DIN UL-Style 20549          |

#### Certificates

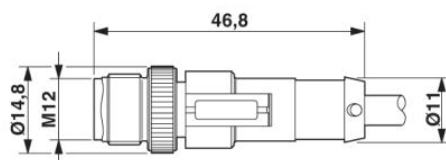


Certification

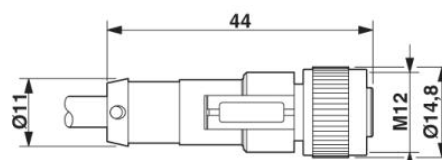
CUL Listed, UL Listed

#### Drawings

Dimensioned drawing

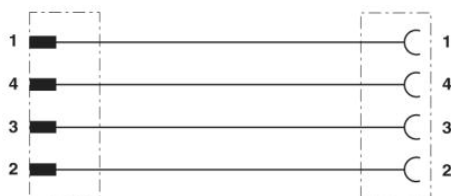


M12-SPEEDCON plug, straight



M12-SPEEDCON socket, straight

Circuit diagram



Contact assignment of the M12 plug 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