

## Sensor/Actuator cable - SAC-5P-10,0-186/FS SCO - 1518384

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Sensor/Actuator cable, 5-position, PUR, black-gray RAL 7021, free cable end, on Socket straight M12 SPEEDCON, A-coded, Cable length: 10 m

### Why buy this product

- Easy and safe: 100% electrically tested plug-in components
- Save time, thanks to installation with SPEEDCON fast locking system
- High-performance: connectors and cables with a large conductor cross section for power supply



### Key Commercial Data

|              |   |
|--------------|---|
| Packing unit | 1 STK   |
| GTIN         | <br>4 017918 968502 |

### Technical data

#### Dimensions

|  |       |
|--|-------|
| Length of cable                            | 10 m  |
| Stripping length of the free conductor end | 50 mm |

#### Ambient conditions

|                                 |                                  |
|---------------------------------|----------------------------------|
| Ambient temperature (operation) | -25 °C ... 90 °C (Plug / socket) |
| Degree of protection            | IP65                             |
|                                 | IP67                             |
|                                 | IP68                             |

#### General

|                       |              |
|-----------------------|--------------|
| Rated current at 40°C | 4 A          |
| Rated voltage         | 60 V         |
| Number of positions   | 5            |
| Insulation resistance | ≥ 100 MΩ     |
| Coding                | A - standard |
| Status display        | No           |

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## Technical data

### General

|                              |         |
|------------------------------|---------|
| Protective circuit/component | Unwired |
| 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 |
| Material, knurls                       | Zinc die-cast, nickel-plated                |
| Sealing material                       | NBR   |

### Standards and Regulations

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

### Cable

|   |                                      |
|---|--------------------------------------|
| Cable type                                    | PUR POWER 0.75 mm <sup>2</sup> black |
| Cable type (abbreviation)                     | 186                                  |
| Cable abbreviation                            | LiY11Y                               |
| Conductor cross section                       | 5x 0.75 mm <sup>2</sup> (power line) |
| AWG signal line                               | 18                                   |
| Conductor structure signal line               | 42x 0.15 mm                          |
| Core diameter including insulation            | 1.7 mm ±0.05 mm                      |
| Thickness, insulation                         | ≥ 0.23 mm (Core insulation)          |
|   | ≥ 0.76 mm (Outer cable sheath)       |
| Wire colors                                   | Brown, white, blue, black, gray      |
| Overall twist                                 | 5 wires around filler to the core    |
| External sheath, color                        | black-gray RAL 7021                  |
| External cable diameter D                     | 6.3 mm ±0.2 mm                       |
| Smallest bending radius, movable installation | 63 mm                                |
| Number of bending cycles                      | 2000000                              |
| Bending radius                                | 63 mm                                |
| Traversing path                               | 5 m                                  |
| Traversing rate                               | 3 m/s                                |
| Acceleration                                  | 5 m/s <sup>2</sup>                   |
| Cable weight                                  | 67 kg/km                             |
| Outer sheath, material                        | PUR                                  |
| Material conductor insulation                 | PVC                                  |
| Conductor material                            | Bare Cu litz wires                   |
| Insulation resistance                         | ≥ 1 MΩ*km (at 20 °C)                 |

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## Technical data

### Cable

|                                 |  |
|---------------------------------|--|
| Conductor resistance            | max. 26 Ω/km (at 20 °C)                        |
| Nominal voltage, cable          | ≤ 300 V  |
| Test voltage, cable             | ≥ 3000 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 |

### 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

Approvals

UL Listed / cUL Listed / cULus Listed

Ex Approvals

# Sensor/Actuator cable - SAC-5P-10,0-186/FS SCO - 1518384

## Approvals

Approvals submitted

### Approval details

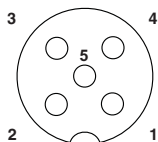
|                                |       |
|--------------------------------|-------|
| UL Listed                      |       |
| Nominal current I <sub>N</sub> | 4 A   |
| Nominal voltage U <sub>N</sub> | 125 V |

|                                |       |
|--------------------------------|-------|
| cUL Listed                     |       |
| Nominal current I <sub>N</sub> | 4 A   |
| Nominal voltage U <sub>N</sub> | 125 V |

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

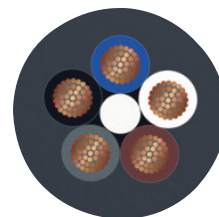
## Drawings

Schematic diagram



Pin assignment M12 socket, 5-pos., A-coded, socket side view

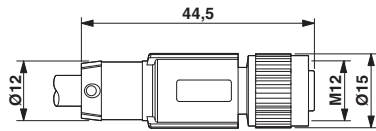
Cable cross section



PUR POWER 0.75 mm<sup>2</sup> black [186]

## Sensor/Actuator cable - SAC-5P-10,0-186/FS SCO - 1518384

Dimensional drawing



Circuit diagram



M12 x 1 socket, straight

Contact assignment of the M12 socket

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