

## Sensor/actuator cable - SAC-5P-MS/ 2,0-186 SCO - 1518326

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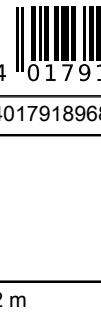
Sensor/actuator cable, 5-position, PUR, black-gray RAL 7021, Plug straight M12 SPEEDCON, A-coded, on free cable end, cable length: 2 m

### 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 968441 |
| GTIN         | 4017918968441  |

### Technical data

#### Dimensions

|  |       |
|--|-------|
| Length of cable                            | 2 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         | 48 V AC |
|                       | 60 V DC |
| Number of positions   | 5       |

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## Technical data

### General

|                              |              |
|------------------------------|--------------|
| Insulation resistance        | ≥ 100 MΩ     |
| Coding                       | A - standard |
| Status display               | No           |
| 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                |

### 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                                  |

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## Technical data

### Cable

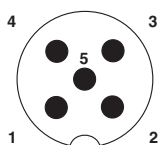
|                                 |  |
|---------------------------------|--|
| Conductor material              | Bare Cu litz wires                             |
| Insulation resistance           | ≥ 1 MΩ*km (at 20 °C)                           |
| Conductor resistance            | max. 26 Ω/km (at 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) |

### Environmental Product Compliance

|            |   |
|------------|---|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|            | No hazardous substances above threshold values          |

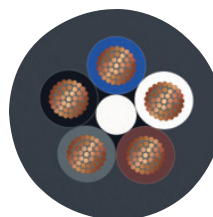
## Drawings

Schematic diagram



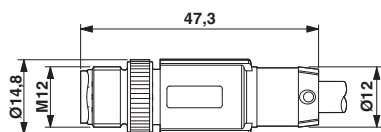
Pin assignment M12 male connector, 5-pos., A-coded, male side

Cable cross section



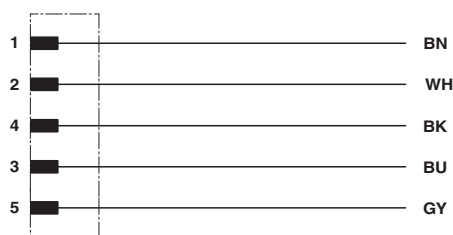
PUR POWER 0.75 mm² black [186]

Dimensional drawing



Plug, M12 x 1, straight, shielded

Circuit diagram



Contact assignment of the M12 connector

## Approvals

### Approvals

#### Approvals


UL Listed / cUL Listed / cULus Listed


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## Approvals

Ex Approvals

### Approval details

|                    |   |   |               |
|--------------------|---|---|---------------|
| 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 |   | 125 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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