

## Sensor/actuator cable - SAC-4P-M12MS/10,0-511 FB - 1552492

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



Sensor/actuator cable, 4-position, Special mixture on PVC base, black RAL 9005, Plug straight M12, A-coded, on free cable end, cable length: 10 m, for the food industry, with high-grade steel knurl

RoHS

### Key Commercial Data

|              |                                                                                                         |
|--------------|---------------------------------------------------------------------------------------------------------|
| Packing unit | 1 pc                                                                                                    |
| GTIN         | <br>4 046356 155793 |
| GTIN         | 4046356155793                                                                                           |

### Technical data

#### Dimensions

|                 |      |
|-----------------|------|
| Length of cable | 10 m |
|-----------------|------|

#### Ambient conditions

|                                 |                                  |
|---------------------------------|----------------------------------|
| Ambient temperature (operation) | -25 °C ... 90 °C (Plug / socket) |
| Degree of protection            | IP65                             |
|                                 | IP67                             |
|                                 | IP68                             |
|                                 | IP69K                            |

#### General

|                              |                               |
|------------------------------|-------------------------------|
| Rated current at 40°C        | 4 A                           |
| Rated voltage                | 48 V AC                       |
|                              | 60 V DC                       |
| Number of positions          | 4                             |
| Insulation resistance        | ≥ 100 MΩ                      |
| Coding                       | A - standard                  |
| Standards/regulations        | M12 connector IEC 61076-2-101 |
| Status display               | No                            |
| Protective circuit/component | unwired                       |

# Sensor/actuator cable - SAC-4P-M12MS/10,0-511 FB - 1552492

## Technical data

### General

|                             |                        |
|-----------------------------|------------------------|
| Overvoltage category        | II                     |
| Degree of pollution         | 3                      |
| Insertion/withdrawal cycles | ≥ 100                  |
| Torque                      | 0.4 Nm (M12 connector) |

### 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                       | Stainless steel                             |

### Standards and Regulations

|                                        |                 |
|----------------------------------------|-----------------|
| Standard designation                   | M12 connector   |
| Standards/regulations                  | IEC 61076-2-101 |
| Flammability rating according to UL 94 | HB              |

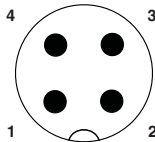
### Cable

|                                    |                                                |
|------------------------------------|------------------------------------------------|
| Cable type                         | PVC black FDA                                  |
| Cable type (abbreviation)          | 511                                            |
| Cable abbreviation                 | LiYY-HF                                        |
| 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 | 1.52 mm ±0.05 mm                               |
| 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                                 |
| Outer sheath, material             | Special mixture on PVC base                    |
| Material conductor insulation      | PVC                                            |
| Conductor material                 | Bare Cu litz wires                             |
| Nominal voltage, cable             | 300 V                                          |
| Test voltage, cable                | 1500 V                                         |
| Special properties                 | FDA compliant                                  |
| Resistance to oil                  | good oil-resistance                            |
| Other resistance                   | UV resistant                                   |
|                                    | Silicone-free                                  |
| Ambient temperature (operation)    | -40 °C ... 80 °C (cable, fixed installation)   |
|                                    | -5 °C ... 90 °C (cable, flexible installation) |

Sensor/actuator cable - SAC-4P-M12MS/10,0-511 FB - 1552492

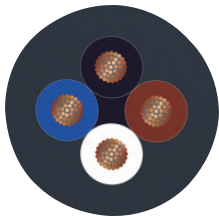
Drawings

Schematic diagram



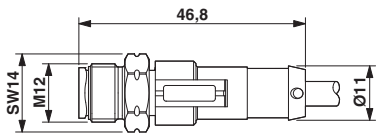
Pin assignment M12 plug, 4-pos., A-coded, view plug side

Cable cross section



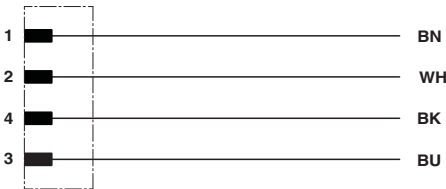
PVC black FDA [511]

Dimensional drawing



Plug, M12 x 1, straight, shielded

Circuit diagram



Contact assignment of the M12 plug and the M12 socket

Approvals

Approvals

Approvals

EAC / EAC

Ex Approvals

Approval details

|     |                                                                                     |                          |
|-----|-------------------------------------------------------------------------------------|--------------------------|
| EAC |  | EAC-Zulassung            |
| EAC |  | RU C-<br>DE.AI30.B.00767 |

Phoenix Contact 2018 © - all rights reserved  
<http://www.phoenixcontact.com>

PHOENIX CONTACT GmbH & Co. KG  
Flachsmarktstr. 8  
32825 Blomberg  
Germany  
Tel. +49 5235 300  
Fax +49 5235 3 41200  
<http://www.phoenixcontact.com>

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Phoenix Contact:

1552492