

## Sensor/Actuator cable - SAC-4P-M12MR/ 5,0-511 FB - 1552609

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Sensor/Actuator cable, 4-position, Special mixture on PVC base, Black RAL 9005, Plug angled M12, A-coded, on Free cable end, Cable length: 5 m, For the food industry, With high-grade steel knurl



### Key commercial data

|                                      |            |
|--------------------------------------|------------|
| Packing unit                         | 1 1        |
| Weight per Piece (excluding packing) | 203.02 GRM |
| Custom tariff number                 | 85444290   |
| Country of origin                    | Germany    |

### Technical data

#### Dimensions

|                 |     |
|-----------------|-----|
| Length of cable | 5 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         | 250 V                         |
| Number of positions   | 4                             |
| Contact resistance    | ≤ 5 mΩ                        |
| Insulation resistance | ≥ 100 MΩ                      |
| Coding                | A - standard                  |
| Standards/regulations | M12 connector IEC 61076-2-101 |

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### Technical data

#### General

|                             |                        |
|-----------------------------|------------------------|
| Status display              | No                     |
| Surge voltage category      | II                     |
| Pollution degree            | 3                      |
| Insertion/withdrawal cycles | ≥ 100                  |
| Torque                      | 0.4 Nm (M12 connector) |

#### Material

|   |   |
|---|---|
| Inflammability class 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                        | High-grade steel                            |

#### 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) |

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## 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 | 27061801 |

## ETIM

|          |          |
|----------|----------|
| 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

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Approvals

GOST

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Ex Approvals

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Approvals submitted

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Approval details

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| GOST  |
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## Sensor/Actuator cable - SAC-4P-M12MR/ 5,0-511 FB - 1552609

### Accessories

#### Accessories

##### Circular connector (cable-side)

Connector - SACC-M12FS-4CON-PG 7-VA - 1553242



Sensor/actuator connector, female, straight, 4-pos., M12, screw connection, high-grade steel knurl, cable screw connection Pg7

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Connector - SACC-M12FR-4CON-PG 7-VA - 1553284



Sensor/actuator connector, female, angled, 4-pos., M12, screw connection, high-grade steel knurl, cable screw connection Pg7

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#### Screwdriver tools

Adapter - SAC BIT M12-W14 - 1212513



SAC nut, for assembling M12 connectors with hexagonal high-grade steel knurl, with 4 mm hexagonal drive

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#### Torque tool

Torque screwdriver - TSD 04 SAC - 1208429



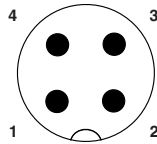
Torque screwdriver, with preset torque of 0.4 Nm and 4 mm hexagonal drive for M12 connectors

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### Drawings

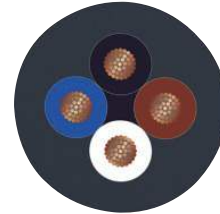
# Sensor/Actuator cable - SAC-4P-M12MR/ 5,0-511 FB - 1552609

Schematic diagram



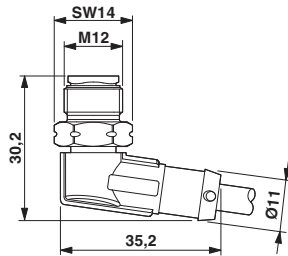
Pin assignment M12 plug, 4-pos., A-coded, view plug side

Cable cross section



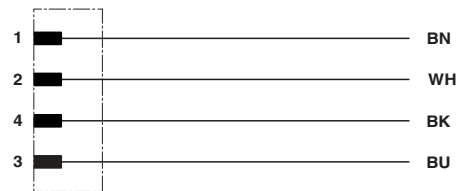
PVC black FDA [511]

Dimensioned drawing



M12 x 1 male plug, angled

Circuit diagram



Contact assignment of the M12 plug and the M12 socket