

## Sensor/actuator cable - SAC-4P-MS/ 1,5-511/M12FR-3L FB - 1552722

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Sensor/actuator cable, 4-position, Special mixture on PVC base, black RAL 9005, Plug straight M12, A-coded, on Socket angled M12, A-coded, with 3 LEDs, cable length: 1.5 m, for the food industry, with high-grade steel knurl

RoHS

### Key Commercial Data

|              |                                                                                                         |
|--------------|---------------------------------------------------------------------------------------------------------|
| Packing unit | 1 pc                                                                                                    |
| GTIN         | <br>4 046356 156066 |
| GTIN         | 4046356156066                                                                                           |

### Technical data

#### Dimensions

|                 |       |
|-----------------|-------|
| Length of cable | 1.5 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                | 24 V                          |
|                              | 24 V DC                       |
| Number of positions          | 4                             |
| Insulation resistance        | ≥ 100 MΩ                      |
| Coding                       | A - standard                  |
| Standards/regulations        | M12 connector IEC 61076-2-101 |
| Status display               | 3 LEDs                        |
| Protective circuit/component | unwired                       |

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## 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                             |
| Sealing material                       | NBR                                         |

### Standards and Regulations

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

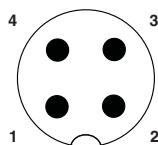
### Cable

|                                    |                                                |
|------------------------------------|------------------------------------------------|
| 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) |

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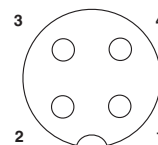
## Drawings

Schematic diagram



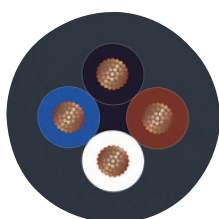
Pin assignment M12 plug, 4-pos., A-coded, view plug side

Schematic diagram



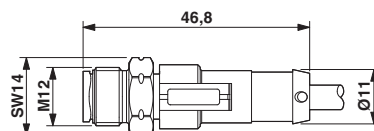
Pin assignment M12 socket, 4-pos., A-coded, view female side

Cable cross section



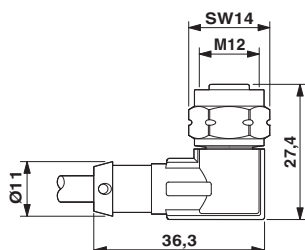
PVC black FDA [511]

Dimensional drawing



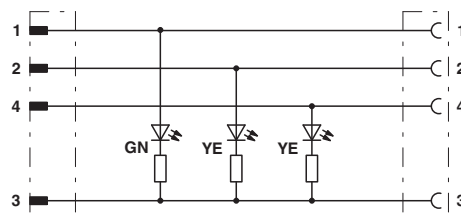
Plug, M12 x 1, straight, shielded

Dimensional drawing



Socket M12 x 1, angled, with LED

Circuit diagram



Contact assignment of the M12 plug and the M12 socket

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