

# SAC-4P-10,0-511/M12FR FB

Order No.: 1552531



Sensor/Actuator cable, 4-position, Special mixture on PVC base, Black RAL 9005, Free conductor end, on Socket, angled M12, A-coded, Cable length: 10 m

## Commercial data

|                          |                                                                                                       |
|--------------------------|-------------------------------------------------------------------------------------------------------|
| EAN                      | <br>4 046356 155915 |
| Note                     | Made-to-order                                                                                         |
| Pack                     | 1                                                                                                     |
| Customs tariff           | 85444290                                                                                              |
| Catalog page information | Page 147 (PC-2009)                                                                                    |

## Product notes

WEEE/RoHS-compliant since:  
2006-09-04



## Technical data

### General data

|                       |                            |
|-----------------------|----------------------------|
| Rated current at 40°C | 4 A                        |
| Rated voltage         | 250 V                      |
| Number of positions   | 4                          |
| Volume resistance     | $\leq 5 \text{ m}\Omega$   |
| Insulation resistance | $\geq 100 \text{ M}\Omega$ |
| Length of cable       | 10 m                       |

|                                            |                                                      |
|--------------------------------------------|------------------------------------------------------|
| Stripping length of the free conductor end | 50 mm                                                |
| Ambient temperature (operation)            | -25 °C ... 90 °C (Male connector / female connector) |

**General characteristics**

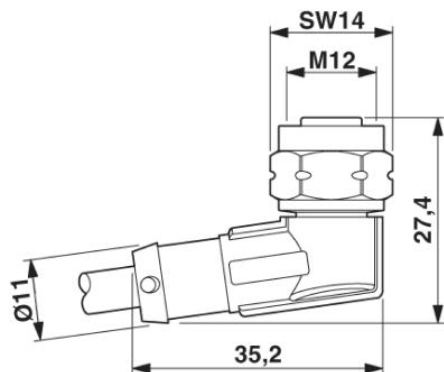
|                             |                                             |
|-----------------------------|---------------------------------------------|
| Standards/regulations       | M12 connector IEC 61076-2-101               |
| Coding                      | A - standard                                |
| Surge voltage category      | II                                          |
| Pollution degree            | 3                                           |
| Degree of protection        | IP65/IP68/IP69K                             |
| Insertion/withdrawal cycles | ≥ 100                                       |
| 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                            |
| Sealing material            | NBR                                         |
| Status display              | No                                          |

**Conductor data**

|                                    |                             |
|------------------------------------|-----------------------------|
| 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            |
| External cable diameter            | 5.20 mm                     |
| Wire colors                        | Black, brown, blue, white   |
| External sheath, color             | Black RAL 9005              |
| Nominal voltage, conductor         | 300 V                       |
| Test voltage, conductor            | 1500 V                      |
| Overall twist                      | 4 wires, twisted            |
| Outer sheath, material             | Special mixture on PVC base |
| Material conductor insulation      | PVC                         |
| Conductor material                 | Bare Cu litz wires          |
| Special properties                 | FDA compliant               |

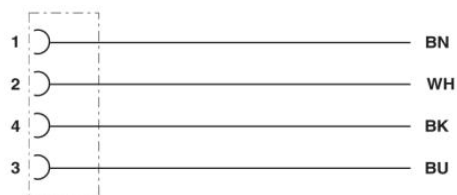
## Drawings

### Dimensioned drawing



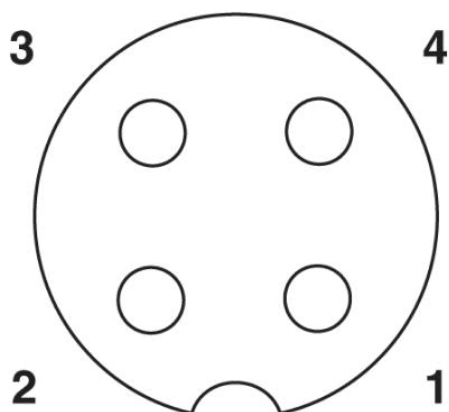
M12 x 1 female connector, angled

### Circuit diagram



Contact assignment of the M12 plug and the M12 socket

### Schematic diagram



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