# Sensor/Actuator cable - SAC-4P-10,0-PVC/M12FR BK - 1527731

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As shown in the illustration but with a black handle

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

## Key commercial data

| | |
|---|---|
| Packing unit | 1 1 |
| Weight per Piece (excluding packing) | 399.6 GRM |
| Custom tariff number | 85444290 |
| Country of origin | Germany |

## Technical data

### Dimensions

| | |
|---|---|
| Length of cable | 10 m |
| Stripping length of the free conductor end | 50 mm |

### Ambient conditions

| | |
|---|---|
| Degree of protection | IP65 |
| | IP67 |
| | IP68 |

### 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 |
| Status display | No |

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## Technical data

### General

| | |
|---|---|
| Surge voltage category | II |
| Pollution degree | 3 |
| Insertion/withdrawal cycles | ≥ 100 |

### 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 | Zinc die-cast, nickel-plated |
| Sealing material | NBR |

### Cable

| | |
|---|---|
| Cable type | PVC black |
| Cable type (abbreviation) | PVC |
| Cable abbreviation | LiYY |
| UL AWM style | 2464 / 1729 (80°C/300 V) |
| Conductor cross section | 4x 0.34 mm² (signal line) |
| AWG signal line | 22 |
| Conductor structure signal line | 42x 0.10 mm |
| Core diameter including insulation | 1.45 mm ±0.02 mm |
| Thickness, insulation | ≥ 0.23 mm (Core insulation) |
| Wire colors | brown, white, blue, black |
| Overall twist | 4 wires, twisted |
| External sheath, color | Black RAL 9005 |
| Outer sheath thickness | ≥ 0.76 mm |
| External cable diameter D | 5.2 mm ±0.15 mm |
| Minimum bending radius, fixed installation | 5 x D |
| Minimum bending radius, flexible installation | 10 x D |
| Cable weight | 40 kg/km |
| Outer sheath, material | PVC |
| Material conductor insulation | PVC |
| Conductor material | Bare Cu litz wires |
| Insulation resistance | ≥ 200 MΩ*km (at 20 °C) |
| Conductor resistance | max. 58 Ω/km (at 20 °C) |
| Nominal voltage, cable | ≤ 300 V |
| Test voltage, cable | ≥ 3000 V |

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## Technical data

### Cable

| | |
|---|---|
| Flame resistance | As per UL-Style 2464 |
| | According to UL 758/1581 FT1 |
| Resistance to oil | According to DIN EN 60811-2-1, 168 h at 90°C |
| Ambient temperature (operation) | -40 °C ... 80 °C (cable, fixed installation) |
| | -25 °C ... 80 °C (cable, flexible installation) |

## 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 2.0 | EC000830 |
| 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

Approvals

UL Listed / cUL Listed / cULus Listed

# Sensor/Actuator cable - SAC-4P-10,0-PVC/M12FR BK - 1527731

## Approvals

Ex Approvals

Approvals submitted

### Approval details

UL Listed

| | |
|---|---|
| Nominal current IN | 4 A |
| Nominal voltage UN | 300 V |

cUL Listed

| | |
|---|---|
| Nominal current IN | 4 A |
| Nominal voltage UN | 300 V |

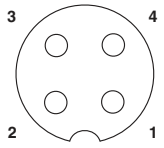
cULus Listed

## Drawings

Circuit diagram

Contact assignment of the M12 socket

Schematic diagram




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

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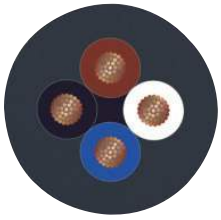
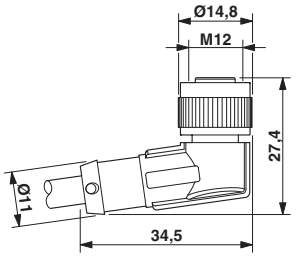
Cable cross section



PVC black [PVC]

Dimensioned drawing




M12 x 1 socket, angled