

## Sensor/Actuator cable - SAC-3P-M12MS/5,0-PUR/BI-1L-Z - 1438477

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://download.phoenixcontact.com>)



Sensor/Actuator cable, 3-position, PUR halogen-free, Black-gray RAL 7021, Plug straight M12, A-coded, on Valve connector BI (11 mm), with 1 LED, connected with Z diode, Cable length: 5 m

The illustration shows the SPEEDCON version



### Key commercial data

|                      |          |
|----------------------|----------|
| Packing unit         | 1 1      |
| Custom tariff number | 85444290 |
| Country of origin    | Poland   |

### Technical data

#### Dimensions

|  |       |
|--|-------|
| Length of cable                            | 5 m   |
| Stripping length of the free conductor end | 50 mm |

#### Ambient conditions

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

#### General

|                              |              |
|------------------------------|--------------|
| Rated current at 40°C        | 4 A          |
| Rated voltage                | 24 V         |
| Number of positions          | 3            |
| Contact resistance           | ≤ 5 mΩ       |
| Insulation resistance        | ≥ 100 MΩ     |
| Coding                       | A - standard |
| Status display               | 1 LED        |
| Protective circuit/component | Z diode      |
| Surge voltage category       | III          |

## Sensor/Actuator cable - SAC-3P-M12MS/5,0-PUR/BI-1L-Z - 1438477

### Technical data

#### General

|                             |       |
|-----------------------------|-------|
| 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                          |
| Valve plug contact material             | CuSn                         |
| Valve plug contact surface material     | Sn                           |
| Valve plug contact insert material      | PA 66                        |
| Material housing valve plug             | TPU                          |
| Material, knurls                        | Zinc die-cast, nickel-plated |
| Sealing material                        | TPU (Seal molded)            |

#### Cable

|   |                                |
|---|--------------------------------|
| Cable type                                  | PUR halogen-free black         |
| Cable type (abbreviation)                   | PUR                            |
| Cable abbreviation                          | Li9Y11Y-HF                     |
| UL AWM style                                | 20549                          |
| Conductor cross section                     | 3x 0.5 mm <sup>2</sup>         |
| AWG signal line                             | 20                             |
| Conductor structure signal line             | 28x 0.15 mm                    |
| Core diameter including insulation          | 1.5 mm ±0.05 mm (signal line)  |
| Wire colors                                 | Black 1, black 2, green/yellow |
| Overall twist                               | 3 wires, twisted               |
| External sheath, color                      | Black-gray RAL 7021            |
| External cable diameter D                   | 4.5 mm ± 0.2 mm                |
| Smallest bending radius, fixed installation | 22.5 mm                        |
| Number of bending cycles                    | 15000000                       |
| Bending radius                              | 50 mm                          |
| Traversing path                             | 0.9 m                          |
| Traversing rate                             | 5 m/s                          |
| Acceleration                                | 30 m/s <sup>2</sup>            |
| Outer sheath, material                      | PUR                            |
| Material conductor insulation               | PP                             |
| Conductor material                          | Bare Cu litz wires             |

# Sensor/Actuator cable - SAC-3P-M12MS/5,0-PUR/BI-1L-Z - 1438477

## Technical data

### Cable

|                                 |  |
|---------------------------------|--|
| Insulation resistance           | min. 20 MΩ*km  |
| Conductor resistance            | 39 Ω/km (at 20 °C)   |
| Nominal voltage, cable          | ≤ 300 V  |
| Test voltage, cable             | ≥ 1200 V   |
| Flame resistance                | According to DIN VDE 0482                                  |
|                                 | According to DIN EN 50265-2-1                              |
| Halogen-free                    | in accordance with DIN VDE 0472 part 815                   |
| Other resistance                | Largely oil-resistant                                      |
|                                 | partly UV-resistant in accordance with DIN EN ISO 4892-2-A |
| Ambient temperature (operation) | -40 °C ... 80 °C (cable, fixed installation)               |
|                                 | -20 °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 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 |

## Accessories

### Accessories

# Sensor/Actuator cable - SAC-3P-M12MS/5,0-PUR/BI-1L-Z - 1438477

## Accessories

### Mounting material

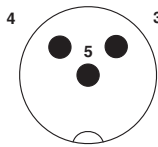
Screw - SAC-V-SCREW-M3-29 KNURL - 1403779



Fillister head screw with plastic knurl, M3 x 40

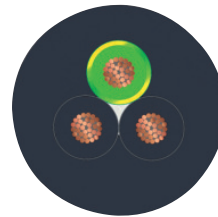
## Drawings

Schematic diagram



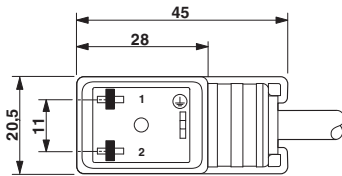
Pin assignment M12 plug, 3-pos., valve connector

Cable cross section



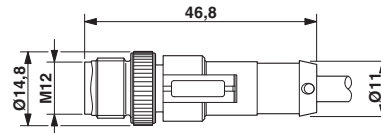
PUR halogen-free black [PUR]

Dimensioned drawing



Valve connector, type BI

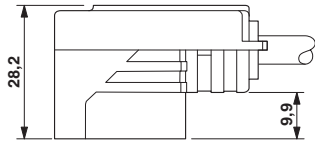
Dimensioned drawing



M12 x 1 plug, straight

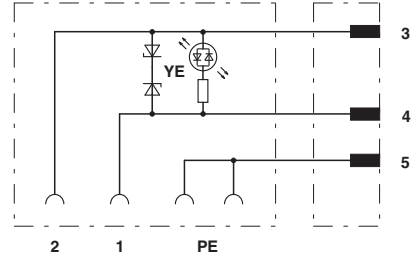
# Sensor/Actuator cable - SAC-3P-M12MS/5,0-PUR/BI-1L-Z - 1438477

Dimensioned drawing



Valve connector, type BI, side view

Circuit diagram



Contact assignment of M12 plug and valve connector

单击下面可查看定价，库存，交付和生命周期等信息

[>>Phoenix Contact\(菲尼克斯\)](#)