

## Sensor/Actuator cable - SAC-3P- 2,0-PVC/BI-1L-Z B-L - 1404818

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, PVC, Black RAL 9005, Free cable end, on BI valve plug (11 mm), with 1 LED, connected with Z diode, Cable length: 2 m



### Key commercial data

|                        |   |
|------------------------|---|
| Packing unit           | 0   |
| Minimum order quantity | 1   |
| GTIN                   | <br>4 046356 726481 |
| Custom tariff number   | 85444290  |
| Country of origin      | POLAND  |

### Technical data

#### General data

|                                 |                               |
|---------------------------------|-------------------------------|
| Rated current at 40°C           | 4 A                           |
| Rated voltage                   | 24 V                          |
| Number of positions             | 3                             |
| Volume resistance               | ≤ 5 mΩ                        |
| Insulation resistance           | ≥ 100 MΩ                      |
| Length of cable                 | 2 m                           |
| Ambient temperature (operation) | -20 °C ... 85 °C (valve plug) |

#### General characteristics

|                                     |                                  |
|-------------------------------------|----------------------------------|
| Surge voltage category              | III                              |
| Pollution degree                    | 3                                |
| Degree of protection                | IP65/67                          |
| Torque                              | 0.6 Nm (Valve plug-in connector) |
| Valve plug contact material         | CuSn                             |
| Valve plug contact surface material | Sn                               |
| Valve plug contact insert material  | PA 66                            |
| Material housing valve plug         | TPU                              |
| Sealing material                    | TPU (Seal molded)                |
| Status display                      | 1 LED                            |

# Sensor/Actuator cable - SAC-3P- 2,0-PVC/BI-1L-Z B-L - 1404818

## Technical data

### General characteristics

|                              |         |
|------------------------------|---------|
| Protective circuit/component | Z diode |
|------------------------------|---------|

### Conductor data

|   |  |
|---|--|
| Cable type                                    | PVC black                                      |
| Cable type (abbreviation)                     | PVC  |
| Cable abbreviation                            | LiYY   |
| Conductor cross section                       | 3x 0.5 mm <sup>2</sup>                         |
| AWG signal line                               | 20   |
| Conductor structure signal line               | 16x 0.20 mm                                    |
| Core diameter including insulation            | 1.5 mm ±0.05 mm                                |
| Wire colors                                   | Black 1, black 2, green/yellow                 |
| Overall twist                                 | 3 wires, twisted                               |
| External sheath, color                        | Black RAL 9005                                 |
| External cable diameter D                     | 4.8 mm ± 0.2 mm                                |
| Smallest bending radius, fixed installation   | 24 mm  |
| Smallest bending radius, movable installation | 48 mm  |
| Outer sheath, material                        | PVC  |
| Material conductor insulation                 | PVC  |
| Conductor material                            | Bare Cu litz wires                             |
| Insulation resistance                         | Min. 20 MΩ*km                                  |
| Conductor resistance                          | 39 Ω/km (at 20 °C)                             |
| Nominal voltage, conductor                    | 300 V  |
| Test voltage, conductor                       | 1200 V   |
| Flame resistance                              | DIN EN 50265-2-1                               |
| Resistance to oil                             | Almost oil-resistant                           |
| Ambient temperature (operation)               | -40 °C ... 80 °C (cable, fixed installation)   |
| Ambient temperature (operation)               | -5 °C ... 80 °C (cable, flexible installation) |

## Classifications

### ETIM

|          |          |
|----------|----------|
| ETIM 3.0 | EC001855 |
| ETIM 4.0 | EC001855 |
| ETIM 5.0 | EC001855 |

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 11     | 31251501 |
| UNSPSC 12.01  | 31251501 |
| UNSPSC 13.2   | 31251501 |
| UNSPSC 6.01   | 31251501 |
| UNSPSC 7.0901 | 31251501 |

# Sensor/Actuator cable - SAC-3P- 2,0-PVC/BI-1L-Z B-L - 1404818

## 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 | 27279218 |
| eCl@ss 7.0 | 27279218 |

## Accessories

Accessories

Assembly

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



Fillister head screw with plastic knurl, M3 x 40

---

## Marking

Insert label - PABA WH/15 - 1013151



Insert label, white, Unlabeled, Can be labeled with: Plotter, Mounting type: Thread on, Cable diameter: 0.6-50 mm, Lettering field: 15 x 4 mm

---

Insert label - PABA YE/15 - 1013698



Insert label, yellow, Unlabeled, Can be labeled with: Plotter, Mounting type: Thread on, Cable diameter: 0.6-50 mm, Lettering field: 15 x 4 mm

---

Insert label - PABA RD/15 - 1013944



Insert label, red, Unlabeled, Can be labeled with: Plotter, Mounting type: Thread on, Cable diameter: 0.6-50 mm, Lettering field: 15 x 4 mm

## Sensor/Actuator cable - SAC-3P- 2,0-PVC/BI-1L-Z B-L - 1404818

### Accessories

Conductor marker carrier - PATG 2/23 - 1013850



Conductor marker carrier, transparent, Unlabeled, Mounting type: Slide on, Cable diameter: 2-4 mm, Lettering field: 4 x 23 mm

---

Conductor marker carrier - PATG 3/23 - 1013863



Conductor marker carrier, transparent, Unlabeled, Mounting type: Slide on, Cable diameter: 4-7 mm, Lettering field: 4 x 23 mm

---

Conductor marker carrier - PATG 4/23 - 0808011



Conductor marker carrier, transparent, Unlabeled, Mounting type: Slide on, Cable diameter: 6-10 mm, Lettering field: 4 x 23 mm

---

Marker pen - B-STIFT - 1051993



Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm

---

### Tools

Cable-cutting tool - CUTFOX-S VDE - 1212207



Diagonal cutter for copper and aluminum conductors, VDE-tested

---

# Sensor/Actuator cable - SAC-3P- 2,0-PVC/BI-1L-Z B-L - 1404818

## Accessories

Stripping tool - WIREFOX SAC - 1212623



Stripping pliers, for halogen-free sensor/actuator cables (SAC cables), with PUR and PVC insulation, from Ø of 4.4 to 7 mm, any stripping length

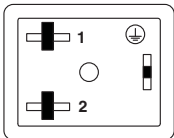
Stripping tool - WIREFOX 10 - 1212150



Stripping tool, for cables and conductors from 0.02 - 10 mm<sup>2</sup>, self-adjusting, stripping length of up to 18 mm, cutting capacity of up to 10 mm<sup>2</sup> stranded/1.5 mm<sup>2</sup> solid, replaceable stripping blade

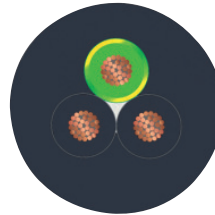
## Drawings

Schematic diagram



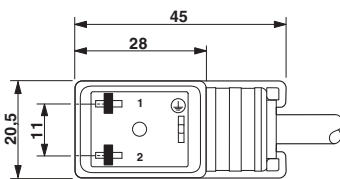
Valve connector pin assignment, type BI

Cable cross section



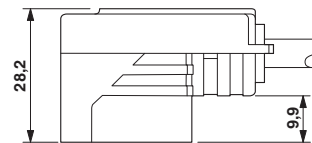
PVC black [PVC]

Dimensioned drawing



Valve connector, type BI

Dimensioned drawing



Valve connector, type BI, side view

# Sensor/Actuator cable - SAC-3P- 2,0-PVC/BI-1L-Z B-L - 1404818

Circuit diagram

