

## SAC-3P- 3,0-PUR/B-1L-Z

Order No.: 1435399



Sensor/Actuator cable, 3-position, PUR, halogen-free, Black-gray RAL 7021, Free conductor end, on Valve plug type B (10 mm), with 1 LED, connected with Z diode, Cable length: 3 m

### Commercial data

|                          |                                                                                                       |
|--------------------------|-------------------------------------------------------------------------------------------------------|
| EAN                      | <br>4 046356 413695 |
| Pack                     | 1                                                                                                     |
| Customs tariff           | 85444290                                                                                              |
| Catalog page information | Page 106 (PC-2009)                                                                                    |

### Product notes

WEEE/RoHS-compliant since:  
2009-03-11



### Technical data

#### General data

|                       |                            |
|-----------------------|----------------------------|
| Rated current at 40°C | 4 A                        |
| Rated voltage         | 24 V                       |
| Number of positions   | 3                          |
| Volume resistance     | $\leq 5 \text{ m}\Omega$   |
| Insulation resistance | $\geq 100 \text{ M}\Omega$ |
| Length of cable       | 3 m                        |

|                                            |                               |
|--------------------------------------------|-------------------------------|
| Stripping length of the free conductor end | 50 mm                         |
| Ambient temperature (operation)            | -20 °C ... 85 °C (valve plug) |

**General characteristics**

|                                    |                               |
|------------------------------------|-------------------------------|
| Standards/regulations              | Valve connector EN 175301-803 |
| Surge voltage category             | III                           |
| Pollution degree                   | 3                             |
| Degree of protection               | IP65/IP67                     |
| Contact material                   | CuSn                          |
| 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                         |
| Protective circuit/component       | Z diode                       |

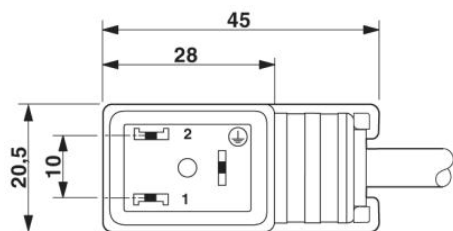
**Conductor data**

|                                    |                                |
|------------------------------------|--------------------------------|
| Cable type                         | PUR halogen-free black         |
| Cable type (abbreviation)          | PUR                            |
| Cable abbreviation                 | Li9Y11Y-HF                     |
| Conductor cross section            | 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                |
| External cable diameter            | 4.50 mm                        |
| Wire colors                        | Black 1, black 2, green/yellow |
| External sheath, color             | Black-gray RAL 7021            |
| Insulation resistance              | ≥ 20 MΩ*km                     |
| Conductor resistance               | ≤ 39 Ω/km                      |
| Nominal voltage, conductor         | ≤ 300 V                        |
| Test voltage, conductor            | 1200 V                         |
| Overall twist                      | 3 wires, twisted               |
| Outer sheath, material             | PUR                            |
| Material conductor insulation      | PP                             |
| Conductor material                 | Bare Cu litz wires             |
| Cable weight                       | 30 kg/km                       |

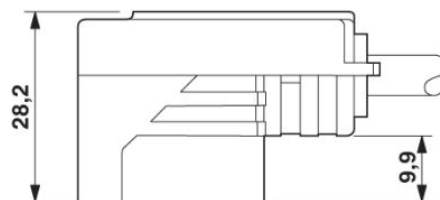
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|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Smallest bending radius, fixed installation | 22.5 mm                                                                                                                |
| Number of bending cycles                    | 4000000                                                                                                                |
| Bending radius                              | 45 mm                                                                                                                  |
| Traversing path                             | 10 m                                                                                                                   |
| Traversing rate                             | 3 m/s                                                                                                                  |
| Acceleration                                | 10 m/s <sup>2</sup>                                                                                                    |
| Ambient temperature (operation)             | -40 °C ... 80 °C (cable, fixed installation)<br>-20 °C ... 80 °C (cable, flexible installation)                        |
| Special properties                          | Flexible cable conduit capable<br>Silicone-free<br>Free of substances which would hinder coating with paint or varnish |
| Flame resistance                            | in accordance with DIN UL-Style 20549                                                                                  |
| Halogen-free                                | in accordance with DIN VDE 0472 part 815                                                                               |
| Resistance to oil                           | in accordance with DIN EN 60811-2-1                                                                                    |
| Other resistance                            | Highly resistant to acids, alkaline solutions and solvents<br>hydrolysis and microbe resistant                         |

## Drawings

### Dimensioned drawing

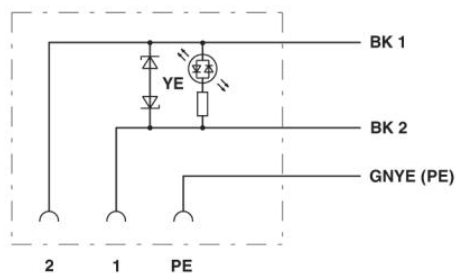


Valve plug, type B



Valve connector, type B, side view

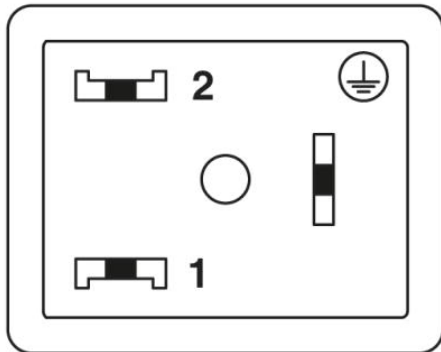
### Circuit diagram



Contact assignment of the valve plug

Schematic diagram

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Valve connector pin assignment, type B