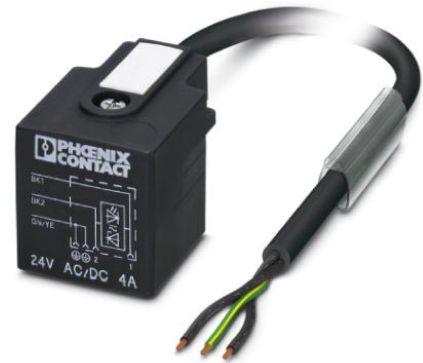



**SAC-3P- 3,0-PUR/A-1L-Z**

Order No.: 1434992

<http://eshop.phoenixcontact.net/phoenix/treeViewClick.do?UID=1434992>

Sensor-/Aktor-Kabel, 3-polig, PUR halogenfrei, schwarzgrau RAL 7021, freies Leitungsende, auf Ventilstecker A, mit 1 LED, beschaltet mit Z-Diode, Kabellänge: 3 m

**Commercial data**

|                          |  |
|--------------------------|--|
| EAN                      | <br>4 046356 413374 |
| Pack                     | 1 pcs.   |
| Customs tariff           | 85444290   |
| Catalog page information | Page 164 (PC-2011)   |

**Product notes**WEEE/RoHS-compliant since:  
05/16/2008

<http://www.download.phoenixcontact.com>  
Please note that the data given here has been taken from the online catalog. For comprehensive information and data, please refer to the user documentation. The General Terms and Conditions of Use apply to Internet downloads.

**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                 | 3 m                           |
| 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               | IP65/67                          |
| Torque                             | 0.6 Nm (Valve plug-in connector) |
| 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                     |
| 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)  |
| External cable diameter            | 4.5 mm ± 0.2 mm                |
| Wire colors                        | Black 1, black 2, green/yellow |
| External sheath, color             | Black-gray RAL 7021            |
| Insulation resistance              | min. 20 MΩ*km                  |
| Conductor resistance               | 39 Ω/km (at 20 °C)             |
| 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  |
| 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>   |
| Ambient temperature (operation)             | -40 °C ... 80 °C (cable, fixed installation)<br>-20 °C ... 80 °C (cable, flexible installation) |
| Flame resistance                            | According to DIN VDE 0482<br>According to DIN EN 50265-2-1                                      |
| Halogen-free                                | in accordance with DIN VDE 0472 part 815  |
| Other resistance                            | Largely oil-resistant<br>partly UV-resistant in accordance with DIN EN ISO 4892-2-A             |

#### Certificates / Approvals

|               |      |
|---------------|------|
| Certification | GOST |
|---------------|------|

#### Accessories

| Item | Designation | Description |
|------|-------------|-------------|
|------|-------------|-------------|

#### Assembly

|         |                         |  |
|---------|-------------------------|--|
| 1403779 | SAC-V-SCREW-M3-29 KNURL | Fillister head screw with plastic knurl, M3 x 40 |
|---------|-------------------------|--|

#### Marking

|         |            |  |
|---------|------------|--|
| 1051993 | B-STIFT    | Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm                                    |
| 1013944 | PABA RD/15 | 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    |
| 1013151 | PABA WH/15 | 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  |
| 1013698 | PABA YE/15 | 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 |

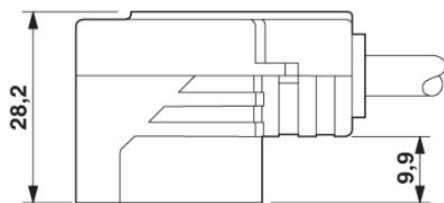
|         |           |  |
|---------|-----------|--|
| 1013850 | PATG 2/23 | Conductor marker carrier, transparent, Unlabeled, Mounting type: Slide on, Cable diameter: 2-4 mm, Lettering field: 4 x 23 mm  |
| 1013863 | PATG 3/23 | Conductor marker carrier, transparent, Unlabeled, Mounting type: Slide on, Cable diameter: 4-7 mm, Lettering field: 4 x 23 mm  |
| 0808011 | PATG 4/23 | Conductor marker carrier, transparent, Unlabeled, Mounting type: Slide on, Cable diameter: 6-10 mm, Lettering field: 4 x 23 mm |

**Tools**

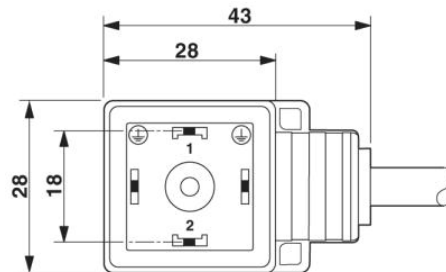
|         |                |  |
|---------|----------------|--|
| 1212207 | CUTFOX-S VDE   | Diagonal cutter for copper and aluminum conductors, VDE-tested   |
| 1212582 | SF-BIT-PH 1-70 | Screw bit, PH crosshead, E6.3-1/4" drive, size: PH 1 x 70 mm, hardened, suitable for holder according to DIN 3126-F6.3/ISO 1173  |
| 1212224 | TSD-M 1,2NM    | Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 0.3 - 1.2 Nm  |
| 1212150 | WIREFOX 10     | 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 |
| 1212623 | WIREFOX SAC    | 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   |

**Diagrams/Drawings**

Dimensioned drawing

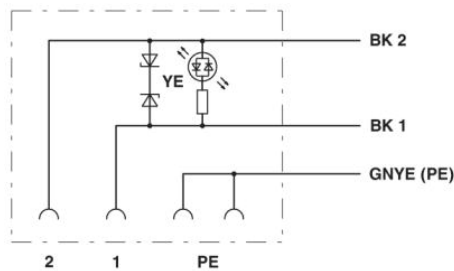


Valve connector, type A, side view



Valve plug, type A

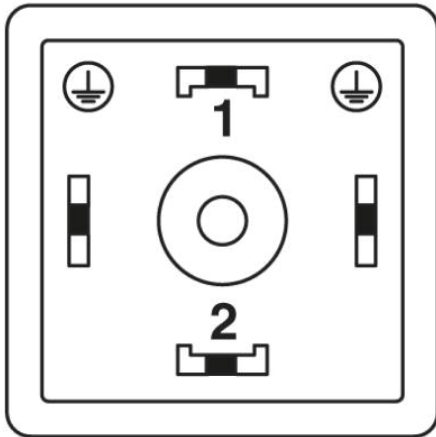
Circuit diagram



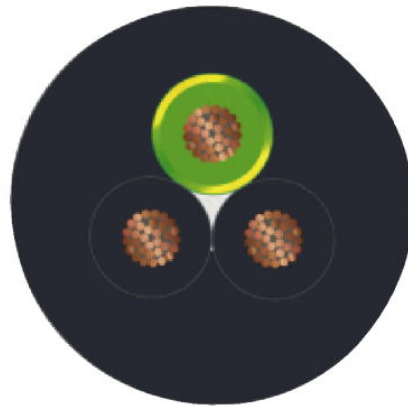
Contact assignment of the valve plug

Schematic diagram

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Valve connector pin assignment, type A



PUR halogen-free black [PUR]

Connection data incl. use groups

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