

# Sensor/Actuator cable - SAC-3P-10,0-PUR/A-1L-Z - 1435014

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Sensor/Actuator cable, 3-position, PUR halogen-free, Black-gray RAL 7021, Free cable end, on A valve plug, with 1 LED, connected with Z diode, Cable length: 10 m

## Key commercial data

|                        |  |
|------------------------|--|
| Packing unit           | 0  |
| Minimum order quantity | 1  |
| Catalog page           | Page 164 (PC-2011)   |
| GTIN                   | <br>4 046356 413398 |
| 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                            | 10 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               | IP65/67                          |
| 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)                |

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## Technical data

### General characteristics

|                              |         |
|------------------------------|---------|
| 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)               |
| Ambient temperature (operation)             | -20 °C ... 80 °C (cable, flexible installation)            |
| Flame resistance                            | According to DIN VDE 0482                                  |
| Flame resistance                            | According to DIN EN 50265-2-1                              |
| Halogen-free                                | in accordance with DIN VDE 0472 part 815                   |
| Other resistance                            | Largely oil-resistant                                      |
| Other resistance                            | partly UV-resistant in accordance with DIN EN ISO 4892-2-A |

## Classifications

### eclass

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27060306 |
| eCl@ss 4.1 | 27060306 |
| eCl@ss 5.0 | 27061801 |

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## Classifications

### eclass

|            |          |
|------------|----------|
| eCl@ss 5.1 | 27061801 |
| eCl@ss 6.0 | 27061801 |
| eCl@ss 7.0 | 27061801 |

### etim

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

### unspsc

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

## Approvals

### Approvals

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Approvals

GOST

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Ex Approvals

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Approvals submitted

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### Approval details

|  |
|--|
| GOST  |
|--|

## Accessories

Accessories

Assembly

## Sensor/Actuator cable - SAC-3P-10,0-PUR/A-1L-Z - 1435014

### Accessories

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



Fillister head screw with plastic knurl, M3 x 40

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### 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

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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

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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

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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

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## Sensor/Actuator cable - SAC-3P-10,0-PUR/A-1L-Z - 1435014

### Accessories

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

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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

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Marker pen - B-STIFT - 1051993



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

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### Tools

Torque screwdriver - TSD-M 1,2NM - 1212224



Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 0.3 - 1.2 Nm

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Screw insert - SF-BIT-PH 1-70 - 1212582



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

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## Accessories

Cable-cutting tool - CUTFOX-S VDE - 1212207



Diagonal cutter for copper and aluminum conductors, VDE-tested

Stripping tool - WIREFOX SAC - 1212623



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

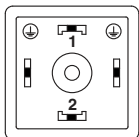
Stripping tool - WIREFOX 10 - 1212150



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

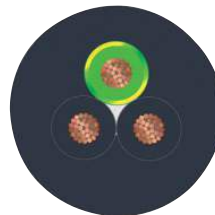
## Drawings

Schematic diagram



Valve connector pin assignment, type A

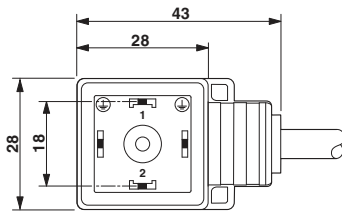
Cable cross section



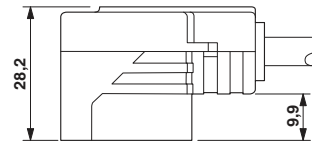
PUR halogen-free black [PUR]

# Sensor/Actuator cable - SAC-3P-10,0-PUR/A-1L-Z - 1435014

Dimensioned drawing



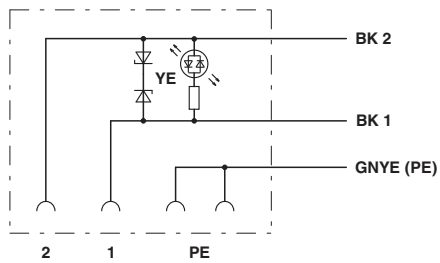
Dimensioned drawing



Valve connector, type A, side view

Valve plug, type A

Circuit diagram



Contact assignment of the valve plug