

## Sensor/Actuator cable - SAC-3P- 2,0-PVC/A-1L-Z B-L - 1404807

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Sensor/Actuator cable, 3-position, PVC, Black RAL 9005, free cable end, on Valve connector A, with 1 LED, connected with Z diode, Cable length: 2 m

### Why buy this product

- ✓ Easy and safe: 100% electrically tested plug-in components
- ✓ Robust valve connector with Zener diode as protective circuit
- ✓ Convenient: increased machine availability thanks to quick and easy diagnostics
- ✓ Our PVC cable for average mechanical strain



### Key commercial data

|                      |                                                                                                         |
|----------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit         | 1                                                                                                       |
| GTIN                 | <br>4 046356 726405 |
| Custom tariff number | 85444290                                                                                                |

### Technical data

#### Dimensions

|                 |     |
|-----------------|-----|
| Length of cable | 2 m |
|-----------------|-----|

#### Ambient conditions

|                                 |                               |
|---------------------------------|-------------------------------|
| Ambient temperature (operation) | -20 °C ... 85 °C (valve plug) |
| Degree of protection            | IP65                          |
|                                 | IP67                          |
|                                 | IP68                          |

#### General

|                       |                               |
|-----------------------|-------------------------------|
| Rated current at 40°C | 4 A                           |
| Rated voltage         | 24 V                          |
| Number of positions   | 3                             |
| Contact resistance    | ≤ 5 mΩ                        |
| Insulation resistance | ≥ 100 MΩ                      |
| Standards/regulations | Valve connector EN 175301-803 |

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## Technical data

### General

|                              |                          |
|------------------------------|--------------------------|
| Status display               | 1 LED                    |
| Protective circuit/component | Z diode                  |
| Surge voltage category       | III                      |
| Pollution degree             | 3                        |
| Torque                       | 0.6 Nm (Valve connector) |

### Material

|                                         |                   |
|-----------------------------------------|-------------------|
| Inflammability class according to UL 94 | V0                |
| 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) |

### Cable

|                                            |                                                |
|--------------------------------------------|------------------------------------------------|
| Cable type                                 | PVC black                                      |
| Cable type (abbreviation)                  | PVC                                            |
| Cable abbreviation                         | LiYY                                           |
| UL AWM style                               | 2464                                           |
| 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                                 |
| Minimum bending radius, fixed installation | 5 x D                                          |
| Outer sheath, material                     | PVC                                            |
| Material conductor insulation              | PVC                                            |
| Conductor material                         | Bare Cu litz wires                             |
| Insulation resistance                      | ≥ 20 MΩ*km                                     |
| Conductor resistance                       | 39 Ω/km (at 20 °C)                             |
| Nominal voltage, cable                     | 300 V                                          |
| Test voltage, cable                        | 1200 V                                         |
| Flame resistance                           | DIN VDE 0482                                   |
|                                            | DIN EN 50265-2-1                               |
| Resistance to oil                          | Almost oil-resistant                           |
| Ambient temperature (operation)            | -40 °C ... 80 °C (cable, fixed installation)   |
|                                            | -5 °C ... 80 °C (cable, flexible installation) |

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### 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 | 27279218 |

#### 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

#### Conductor marking

Insert label - PABA WH/15 - 1013151



Insert label, Strip, 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, Strip, 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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### Accessories

Insert label - PABA RD/15 - 1013944



Insert label, Strip, 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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### Cutting tools

Diagonal cutter - CUTFOX-S VDE - 1212207



Diagonal cutter for copper and aluminum conductors, VDE-tested

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### Marker carrier cable

Conductor marker carrier - PATG 2/15 - 1013038



Conductor marker carrier, transparent, unlabeled, Mounting type: slide on, Cable diameter: 2-4 mm, Lettering field: 4 x 15 mm

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Conductor marker carrier - PATG 3/15 - 1013041



Conductor marker carrier, transparent, unlabeled, Mounting type: slide on, Cable diameter: 4-7 mm, Lettering field: 4 x 15 mm

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Conductor marker carrier - PATG 4/15 - 1013054



Conductor marker carrier, transparent, unlabeled, Mounting type: slide on, Cable diameter: 6-10 mm, Lettering field: 4 x 15 mm

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### Marker pen

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### Accessories

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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### Mounting material

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



Fillister head screw with plastic knurl, M3 x 40

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### Stripping tool

Stripping tool - WIREFOX SAC-1 - 1212757



Stripping pliers, for halogen-free sensor/actuator cables (SAC cables), with PUR and PVC insulation, from Ø of 3.2 to 4.4 mm, any stripping length

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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

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Stripping tool - WIREFOX 10 - 1212150



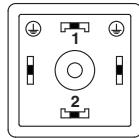
Stripping tool, for cables and conductors from 0.02 - 10 mm<sup>2</sup>, self-adjusting, stripping length of up to 18 mm, cutting capacity of up to 10 mm<sup>2</sup> stranded/1.5 mm<sup>2</sup> solid, replaceable stripping blade

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### Drawings

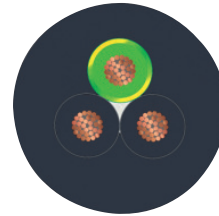
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Schematic diagram



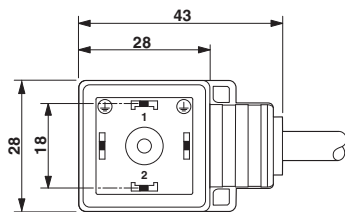
Valve connector pin assignment, type A

Cable cross section



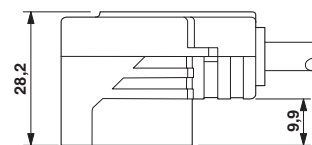
PVC black [PVC]

Dimensioned drawing



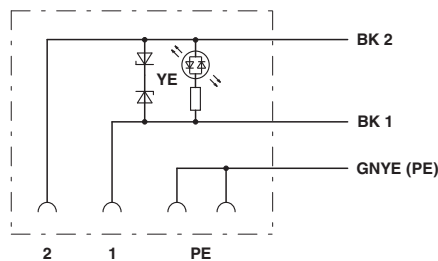
Valve connector, type A

Dimensioned drawing



Valve connector, type A, side view

Circuit diagram



Contact assignment of the valve plug