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## Sensor/Actuator cable - SAC-3P- 5,0-PUR/A-1L-R-ES 4A - 1401136

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Sensor/Actuator cable, 3-position, PUR, black, free cable end, on Valve connector A, with 1 LED, connected with Damping diode, Cable length: 5 m, With holding current limiting device for energy reduction

### Key Commercial Data

|              |                     |
|--------------|---------------------|
| Packing unit | 1 STK               |
| GTIN         | <br>4 046356 924535 |

### Technical data

#### Dimensions

|                 |     |
|-----------------|-----|
| Length of cable | 5 m |
|-----------------|-----|

#### Ambient conditions

|                                 |                               |
|---------------------------------|-------------------------------|
| Ambient temperature (operation) | -25 °C ... 80 °C (valve plug) |
| Degree of protection            | IP67                          |

#### General

|                              |   |
|------------------------------|---|
| Rated current at 40°C        | 4 A   |
| Rated voltage                | 24 V DC ±20 %   |
| Number of positions          | 3   |
| Insulation resistance        | ≥ 100 MΩ  |
| Standards/regulations        | Valve connector EN 175301-803                           |
| Status display               | 1 LED   |
| Protective circuit/component | Freewheeling diode with holding current limiting device |
| Switch-over time             | approx. 500 ms (Initial operating time)                 |
| Clock frequency              | approx. 800 Hz (Holding current limiting device)        |
| Switching frequency          | max. 1 Hz (Connected valve)                             |

#### Material

|                                     |                   |
|-------------------------------------|-------------------|
| Valve plug contact material         | CuSn              |
| Valve plug contact surface material | Ag                |
| Valve plug contact insert material  | PA 66             |
| Material housing valve plug         | TPU               |
| Sealing material                    | TPU (Seal molded) |

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## Technical data

### Standards and Regulations

|                       |                 |
|-----------------------|-----------------|
| Standard designation  | Valve connector |
| Standards/regulations | EN 175301-803   |

### Cable

|   |  |
|---|--|
| 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)                              |
| Wire colors                                 | black 1, black 2, green/yellow                             |
| Overall twist                               | 3 wires, twisted   |
| External sheath, color                      | black-gray RAL 7021  |
| External cable diameter D                   | 4.5 mm ±0.2 mm   |
| 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>  |
| Outer sheath, material                      | PUR  |
| Material conductor insulation               | PP   |
| Conductor material                          | Bare Cu litz wires   |
| Insulation resistance                       | min. 20 MΩ*km  |
| Conductor resistance                        | 39 Ω/km (at 20 °C)   |
| Nominal voltage, cable                      | ≤ 300 V  |
| Test voltage, cable                         | ≥ 1200 V   |
| Flame resistance                            | According to DIN VDE 0482                                  |
|   | According to DIN EN 50265-2-1                              |
| Halogen-free                                | in accordance with DIN VDE 0472 part 815                   |
| Other resistance                            | Largely oil-resistant                                      |
|   | partly UV-resistant in accordance with DIN EN ISO 4892-2-A |
| Ambient temperature (operation)             | -40 °C ... 80 °C (cable, fixed installation)               |
|   | -20 °C ... 80 °C (cable, flexible installation)            |

## Classifications

eCl@ss

|            |          |
|------------|----------|
| eCl@ss 5.1 | 27061801 |
|------------|----------|

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## Classifications

### eCl@ss

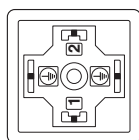
|            |          |
|------------|----------|
| eCl@ss 6.0 | 27061801 |
| eCl@ss 8.0 | 27279218 |

### ETIM

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

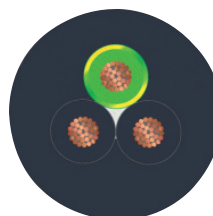
## Drawings

Schematic diagram



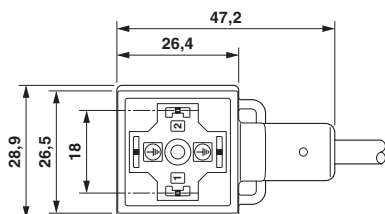
Valve connector pin assignment, type A

Cable cross section



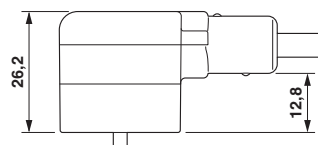
PUR halogen-free black [PUR]

Dimensional drawing



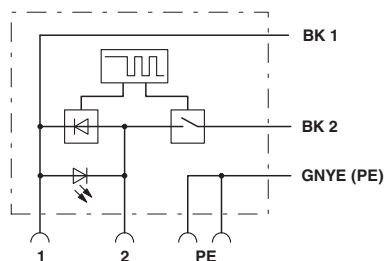
Valve connector, type A

Dimensional drawing



Valve connector, type A, side view

Circuit diagram



Contact assignment of the valve plug

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