

# SAC-3P- 5,0-PUR/A - Sensor/actuator cable



1402984

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Sensor/actuator cable, 3-position, PUR halogen-free, black-gray RAL 7021, free cable end, on Valve connector A, Wiring: unwired, cable length: 5 m

## Your advantages

- Easy and safe: 100 % electrically tested plug-in components
- Our standard: robust halogen-free PUR cable

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1402984       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | AF1DAA        |
| Product key                          | AF1DAA        |
| GTIN                                 | 4046356638166 |
| Weight per piece (including packing) | 180,7 g       |
| Weight per piece (excluding packing) | 168,1 g       |
| Customs tariff number                | 85444290      |
| Country of origin                    | PL            |

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## Technical data

### Product properties

|                      |          |
|----------------------|----------|
| Application          | Standard |
| Number of positions  | 3        |
| No. of cable outlets | 1        |
| Shielded             | no       |

### Insulation characteristics

|                      |     |
|----------------------|-----|
| Overvoltage category | III |
| Degree of pollution  | 3   |

### Connection data

#### Conductor connection

|                   |                          |
|-------------------|--------------------------|
| Tightening torque | 0.6 Nm (Valve connector) |
|-------------------|--------------------------|

### Material specifications

|                                        |        |
|----------------------------------------|--------|
| Flammability rating according to UL 94 | V0     |
| Seal material                          | TPU    |
| Material housing valve plug            | TPU    |
| Contact material                       | CuSn   |
| Valve plug contact insert material     | PA 6.6 |
| Contact surface material               | Sn     |

### Electrical properties

|                       |                            |
|-----------------------|----------------------------|
| Insulation resistance | $\geq 100 \text{ M}\Omega$ |
| Nominal voltage $U_N$ | 230 V AC                   |
|                       | 230 V DC                   |
| Nominal current $I_N$ | 6 A                        |

### Valve connector characteristics

|               |         |
|---------------|---------|
| Fixing screws | M3 x 29 |
|---------------|---------|

### Signaling

|                        |    |
|------------------------|----|
| Status display         | no |
| Status display present | no |

### Connector

#### Connection 1

|      |                |
|------|----------------|
| Type | free cable end |
|------|----------------|

#### Connection 2

|      |                   |
|------|-------------------|
| Type | Valve connector A |
|      | CuSn (Contact)    |

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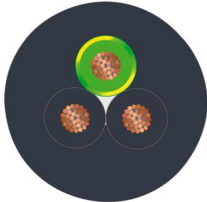
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|                    |                          |
|--------------------|--------------------------|
| Material           | Sn (Contact surface)     |
|                    | PA 6.6 (Contact carrier) |
|                    | TPU (Housing)            |
| Protective circuit | unwired                  |

## Cable/line

|              |     |
|--------------|-----|
| Cable length | 5 m |
|--------------|-----|

### PUR halogen-free black [PUR]

|                                               |                                                                                                                             |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Dimensional drawing                           |                                           |
| Cable weight                                  | 30 kg/km                                                                                                                    |
| UL AWM Style                                  | 20549                                                                                                                       |
| Number of positions                           | 3                                                                                                                           |
| Shielded                                      | no                                                                                                                          |
| Cable type                                    | PUR halogen-free black [PUR]                                                                                                |
| Conductor structure signal line               | 28x 0.15 mm                                                                                                                 |
| AWG signal line                               | 20                                                                                                                          |
| Conductor cross-section                       | 3x 0.5 mm²                                                                                                                  |
| Wire diameter incl. insulation                | 1.5 mm ±0.05 mm (Signal line)                                                                                               |
| External cable diameter                       | 4.50 mm ±0.2 mm                                                                                                             |
| Outer sheath, material                        | PUR                                                                                                                         |
| External sheath, color                        | black-gray RAL 7021                                                                                                         |
| Conductor material                            | Bare Cu litz wires                                                                                                          |
| Material wire insulation                      | PP                                                                                                                          |
| Single wire, color                            | black 1, black 2, green/yellow                                                                                              |
| Overall twist                                 | 3 wires, twisted                                                                                                            |
| Max. conductor resistance                     | 39 Ω/km (at 20 °C)                                                                                                          |
| Insulation resistance                         | min. 20 MΩ*km                                                                                                               |
| Nominal voltage, cable                        | ≤ 300 V                                                                                                                     |
| Test voltage                                  | ≥ 1200 V                                                                                                                    |
| Minimum bending radius, fixed installation    | 5 x D                                                                                                                       |
| Minimum bending radius, flexible installation | 10 x D                                                                                                                      |
| Smallest bending radius, fixed installation   | 22.5 mm                                                                                                                     |
| Smallest bending radius, movable installation | 45 mm                                                                                                                       |
| Dynamic load capacity (bending)               | Max. bending cycles: 15000000, Bending radius: 50 mm, Traversing path: 0.9 m, Traversing rate: 5 m/s, Acceleration: 30 m/s² |
| Halogen-free                                  | in accordance with DIN VDE 0472 part 815                                                                                    |

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|                                 |                                                              |
|---------------------------------|--------------------------------------------------------------|
| Flame resistance                | according to DIN VDE 0482                                    |
|                                 | According to DIN EN 50265-2-1                                |
| Resistance to oil               | in accordance with DIN EN 60811-2-1                          |
| 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)              |

## Environmental and real-life conditions

### Ambient conditions

|                                                                |                                                 |
|----------------------------------------------------------------|-------------------------------------------------|
| Degree of protection                                           | IP65                                            |
|                                                                | IP67                                            |
| Ambient temperature (operation) (Valve connector)              | -20 °C ... 85 °C (Valve connector)              |
| Ambient temperature (operation) (Cable, fixed installation)    | -40 °C ... 80 °C (cable, fixed installation)    |
| Ambient temperature (operation) (Cable, flexible installation) | -15 °C ... 80 °C (Cable, flexible installation) |

## Standards and regulations

### Valve connector

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

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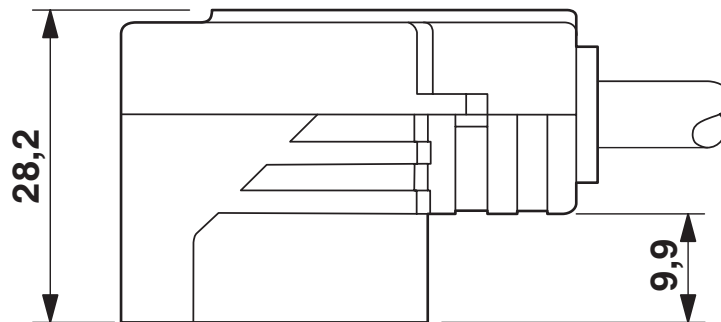
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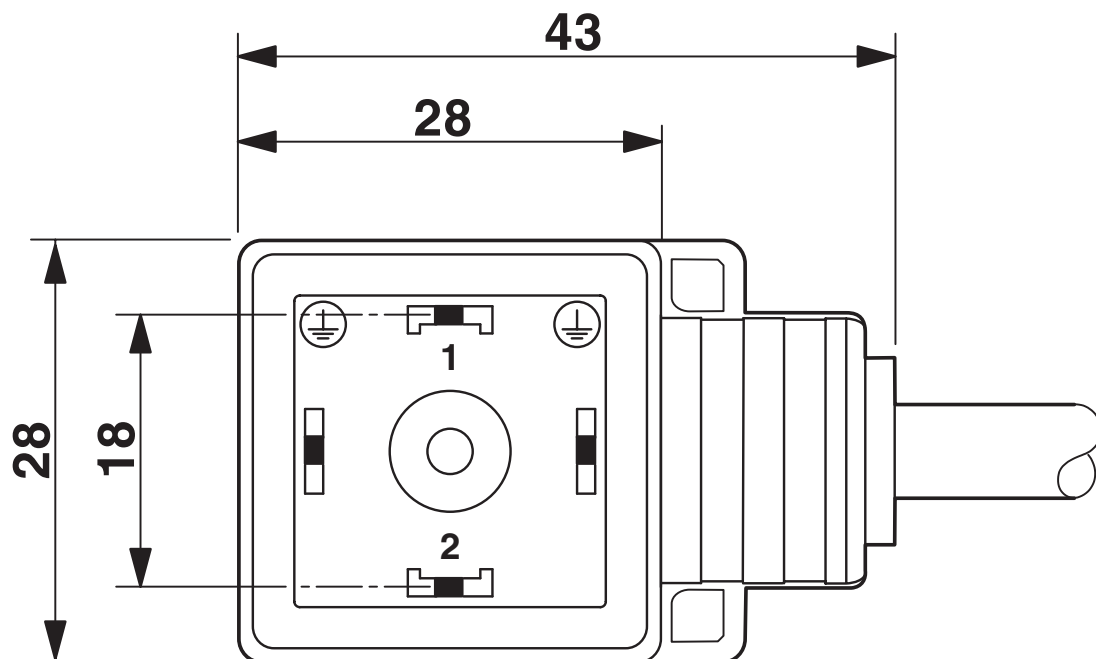
## Drawings

Dimensional drawing



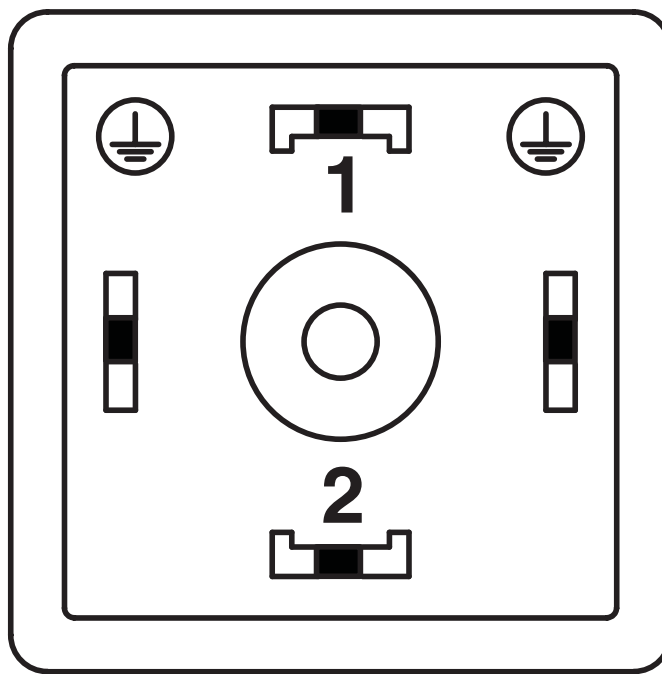
Valve connector, type A, side view

Dimensional drawing

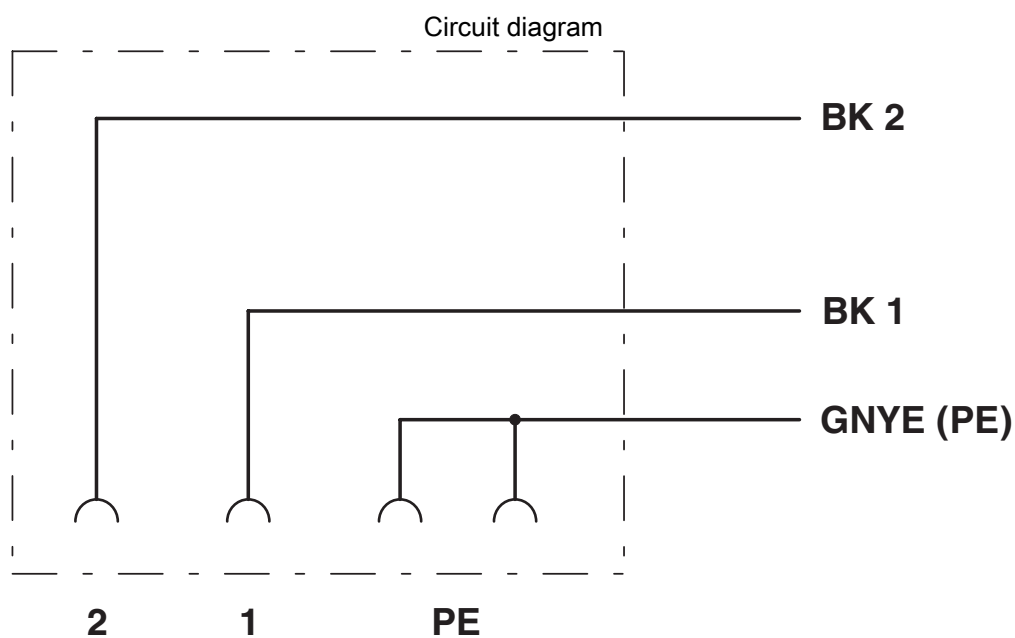


Valve connector, type A

Schematic diagram



Valve connector pin assignment, type A



Contact assignment of the valve plug

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## Approvals

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|  <b>CSA</b><br>Approval ID: 13631 |                                |                                |                   |                               |
|--------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------------|-------------------|-------------------------------|
|                                                                                                                    | Nominal voltage U <sub>N</sub> | Nominal current I <sub>N</sub> | Cross section AWG | Cross section mm <sup>2</sup> |
| keine                                                                                                              |                                |                                |                   |                               |
|                                                                                                                    | 230 V                          | 6 A                            | -                 | -                             |

|  <b>EAC-RoHS</b><br>Approval ID: RU D-DE.HB35.B.00387 |  |  |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
|----------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|

|  <b>CSAus</b><br>Approval ID: 13631 |                                |                                |                   |                               |
|----------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------------|-------------------|-------------------------------|
|                                                                                                                      | Nominal voltage U <sub>N</sub> | Nominal current I <sub>N</sub> | Cross section AWG | Cross section mm <sup>2</sup> |
| keine                                                                                                                |                                |                                |                   |                               |
|                                                                                                                      | 230 V                          | 6 A                            | -                 | -                             |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27060312 |
| ECLASS-15.0 | 27060312 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC001855 |
|-----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 31251500 |
|-------------|----------|

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## Environmental product compliance

### EU RoHS

|                                         |                    |
|-----------------------------------------|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|-----------------------------------------|--------------------|

### China RoHS

|                                        |                                          |
|----------------------------------------|------------------------------------------|
| Environment friendly use period (EFUP) | EFUP-E                                   |
|                                        | No hazardous substances above the limits |

### EU REACH SVHC

|                                     |                            |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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