

# SAC-3P-MS/1,0-PUR/A-1L-Z SCO - Sensor/actuator cable



1400698

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Sensor/actuator cable, 3-position, PUR halogen-free, black-gray RAL 7021, Plug straight M12 SPEEDCON, coding: A, on Valve connector A, with 1 LED, Wiring: Z diode, cable length: 1 m

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1400698       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 25 pc         |
| Sales key                            | *****         |
| Product key                          | AF1DJA        |
| GTIN                                 | 4046356509367 |
| Weight per piece (including packing) | 66.2 g        |
| Weight per piece (excluding packing) | 63.8 g        |
| Customs tariff number                | 85444290      |
| Country of origin                    | PL            |

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## Technical data

### Product properties

|                      |                                            |
|----------------------|--------------------------------------------|
| Product type         | Sensor/actuator cable with valve connector |
| Number of positions  | 3                                          |
| No. of cable outlets | 1                                          |
| Shielded             | no                                         |
| Coding               | A                                          |

### Insulation characteristics

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

### Material specifications

|                                        |    |
|----------------------------------------|----|
| Flammability rating according to UL 94 | HB |
|----------------------------------------|----|

### Electrical properties

|                       |         |
|-----------------------|---------|
| Nominal voltage $U_N$ | 24 V AC |
|                       | 24 V DC |
| Nominal current $I_N$ | 4 A     |

### Signaling

|                        |       |
|------------------------|-------|
| Status display         | 1 LED |
| Status display present | Yes   |

### Connector

#### Connection 1

|                     |                            |
|---------------------|----------------------------|
| Type                | Plug straight M12 SPEEDCON |
| Number of positions | 3                          |
| Locking type        | SPEEDCON                   |
| Coding type         | A                          |

#### Connection 2

|      |                   |
|------|-------------------|
| Type | Valve connector A |
|------|-------------------|

### Cable/line

|              |     |
|--------------|-----|
| Cable length | 1 m |
|--------------|-----|

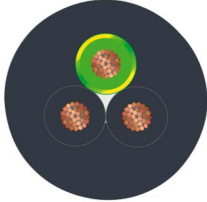
PUR halogen-free black [PUR]

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|                                               |                                                                                                                             |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| 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                                                                                    |
| Flame resistance                              | according to DIN VDE 0482<br>According to DIN EN 50265-2-1                                                                  |
| Resistance to oil                             | in accordance with DIN EN 60811-2-1                                                                                         |
| Other resistance                              | largely oil-resistant<br>partly UV-resistant (in accordance with DIN EN ISO 4892-2-A)                                       |
| Ambient temperature (operation)               | -40 °C ... 80 °C (cable, fixed installation)<br>-20 °C ... 80 °C (Cable, flexible installation)                             |

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Environmental and real-life conditions

|                                 |                                                 |
|---------------------------------|-------------------------------------------------|
| Ambient conditions              |                                                 |
| Degree of protection            | IP65                                            |
|                                 | IP67                                            |
| Ambient temperature (operation) | -25 °C ... 90 °C (Plug / socket)                |
|                                 | -20 °C ... 85 °C (valve plug)                   |
|                                 | -40 °C ... 80 °C (cable, fixed installation)    |
|                                 | -15 °C ... 80 °C (Cable, flexible installation) |

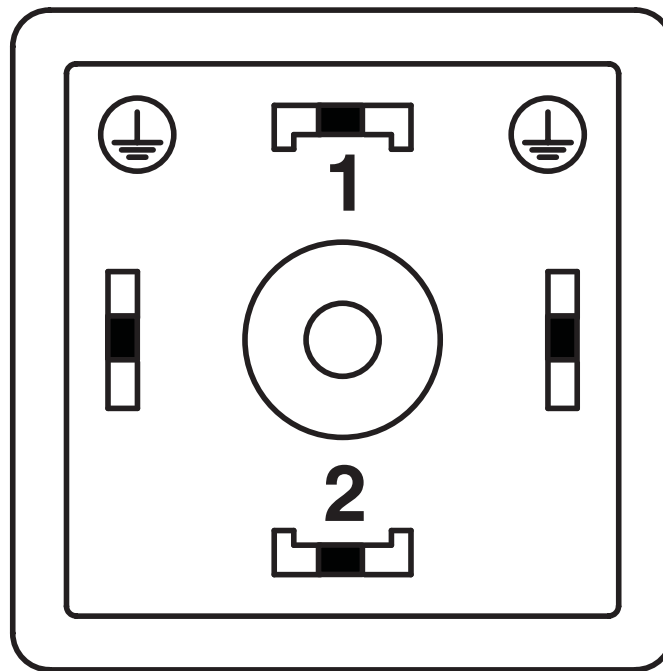
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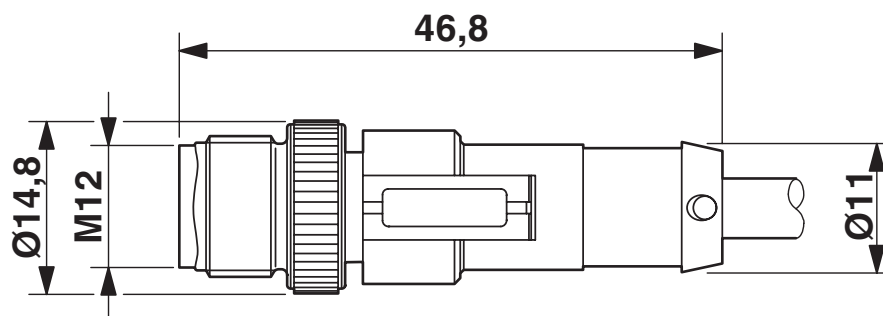
## Drawings

Schematic diagram



Valve connector pin assignment, type A

Dimensional drawing



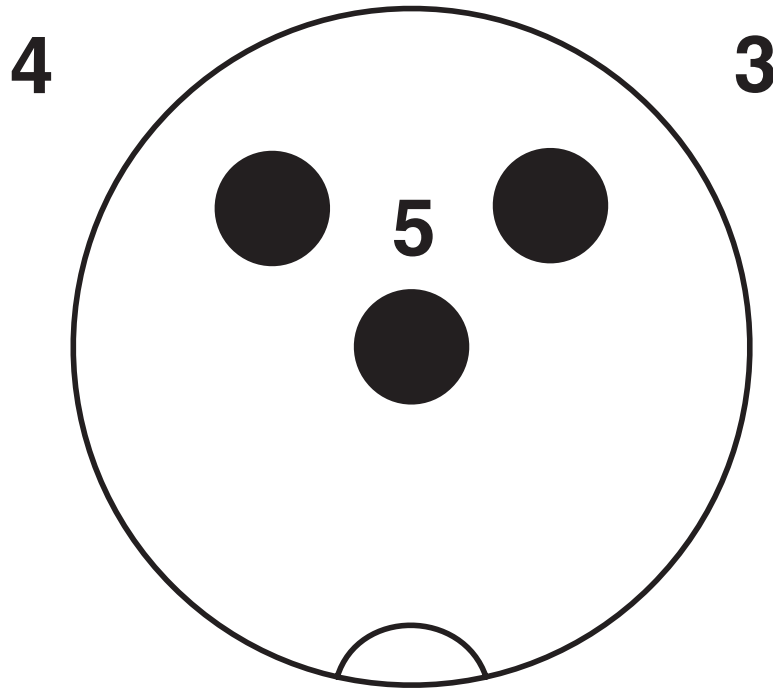
Plug, M12 x 1, straight, shielded

# SAC-3P-MS/1,0-PUR/A-1L-Z SCO - Sensor/actuator cable

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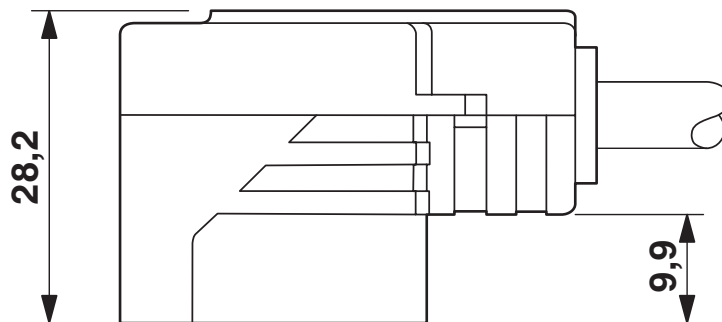
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Schematic diagram



Pin assignment M12 plug, 3-pos., valve connector

Dimensional drawing

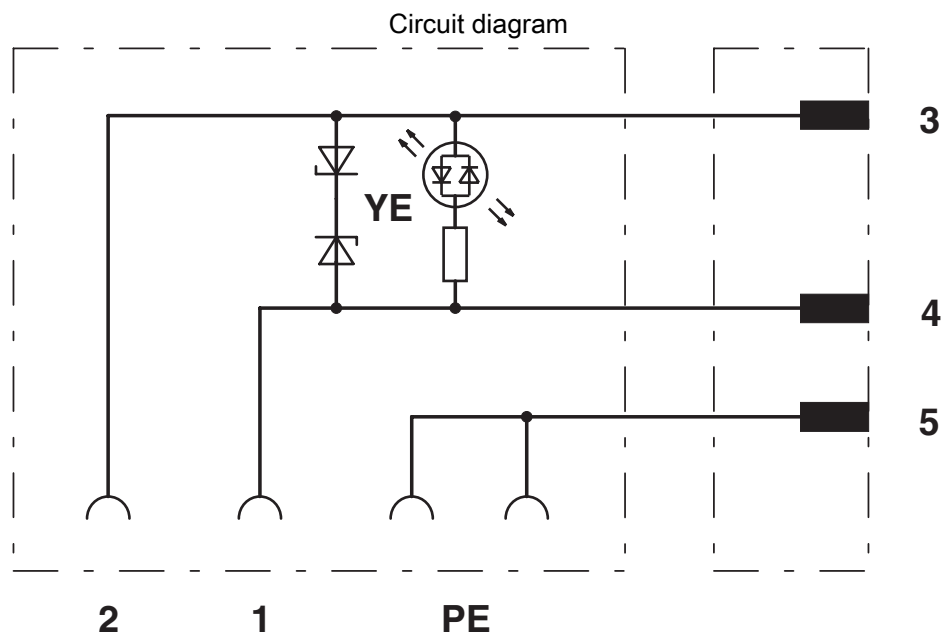


Valve connector, type A, side view

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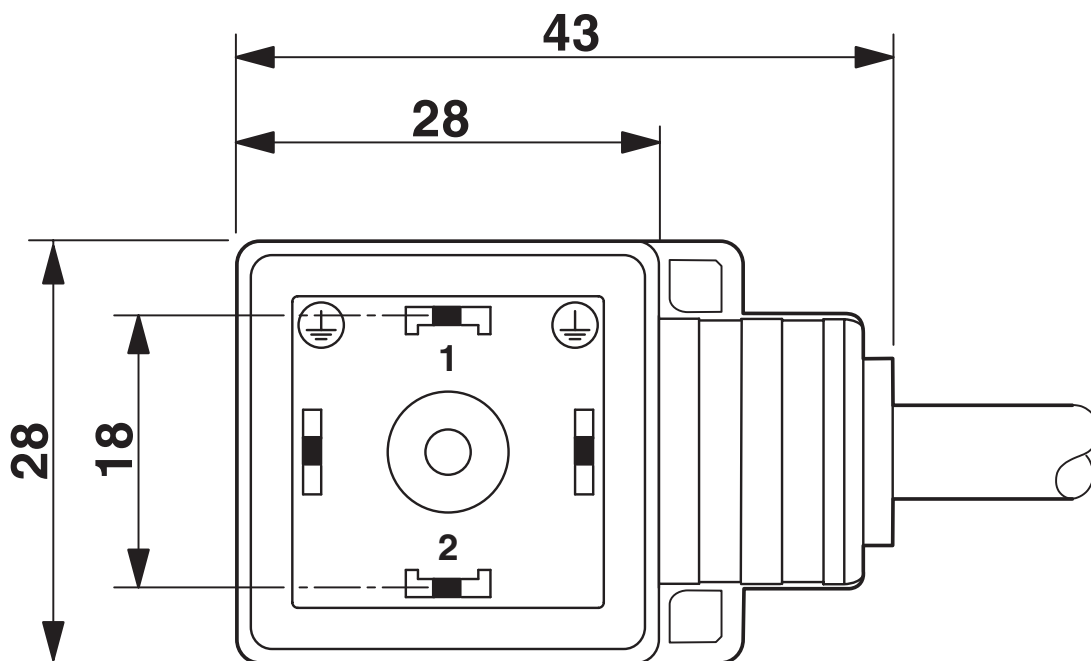
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Contact assignment of M12 plug and valve connector

Dimensional drawing



Valve connector, type A

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/in/products/1400698>

|                                                                                                                    |                       |                       |                   |                             |
|--------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|  <b>CSA</b><br>Approval ID: 13631 |                       |                       |                   |                             |
|                                                                                                                    | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|                                                                                                                    | 24 V                  | 4 A                   | -                 | -                           |

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

|                                                                                                                      |                       |                       |                   |                             |
|----------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|  <b>CSAus</b><br>Approval ID: 13631 |                       |                       |                   |                             |
|                                                                                                                      | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|                                                                                                                      | 24 V                  | 4 A                   | -                 | -                           |

|               |  |  |  |  |
|---------------|--|--|--|--|
| <b>cCSAus</b> |  |  |  |  |
|---------------|--|--|--|--|



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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27060312 |
| ECLASS-12.0 | 27060312 |
| ECLASS-13.0 | 27060312 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC001855 |
|----------|----------|

### UNSPSC

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

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## Environmental product compliance

### EU RoHS

|                                         |        |
|-----------------------------------------|--------|
| Fulfills EU RoHS substance requirements | Yes    |
| Exemption                               | 7(c)-I |

### China RoHS

|                                        |                                                                                                                                                                                                                                   |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Environment friendly use period (EFUP) | EFUP-50                                                                                                                                                                                                                           |
|                                        | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

### EU REACH SVHC

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

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## Accessories

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

1403779

<https://www.phoenixcontact.com/in/products/1403779>

Fillister head screw with plastic knurl, M3 x 40



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