# SAC- 1,5/0,2-116/2XBI-1L-Z - Double valve connector cable

1458428

https://www.phoenixcontact.com/us/products/1458428

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Double valve connector cable, 4-position, PUR/PVC, black, free cable end, on Valve connector BI (11 mm), with 1 LED, Wiring: Z diode and Valve connector BI (11 mm), with 1 LED, Wiring: Z diode, cable length: 1.5 m, valve connector spacing: 0.2 m

## Your advantages

- Easy and safe: 100 % electrically tested plug-in components
- Efficient: control valves with two connections via a single connecting cable
- Convenient: increased machine availability thanks to quick and easy diagnostics

## Commercial data

| | |
|---|---|
| Item number | 1458428 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | BF07 |
| Product key | AF1DIA |
| GTIN | 4046356638876 |
| Weight per piece (including packing) | 152.8 g |
| Weight per piece (excluding packing) | 149.83 g |
| Customs tariff number | 85444290 |
| Country of origin | PL |

## Technical data

### Product properties

| | |
|---|---|
| Product type | Sensor/actuator cable with valve connector |
| Application | Standard |
| Number of positions | 4 |
| No. of cable outlets | 1 |
| Shielded | no |

Insulation characteristics

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

### Connection data

Conductor connection

| | |
|---|---|
| Tightening torque | 0.6 Nm |

### Material specifications

| | |
|---|---|
| Flammability rating according to UL 94 | HB |
| Material grommet GRP | TPU (Seal molded) |
| Material housing valve plug | TPU |
| Contact material | CuSn |
| Valve plug contact insert material | PA 6.6 |
| Contact surface material | Sn |

### Electrical properties

| | |
|---|---|
| Insulation resistance | ≥ 100 MΩ |
| Nominal voltage $U_N$ | 24 V AC |
| | 24 V DC |
| Nominal current $I_N$ | 4 A |

Valve connector characteristics

| | |
|---|---|
| Fixing screws | M3 x 29 |
| Pulse power | 40 W (at 100 µs square-wave pulse) |
| Terminal voltage | 70 V (at 2 mA constant current) |
| Reverse voltage | 50 V |

### Mechanical properties

Mechanical data

| | |
|---|---|
| Insertion/withdrawal cycles | 50 |

### Signaling

| | |
|---|---|
| Status display | 1 LED |
| Status display present | yes |

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## Connector

Connection 1

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

Connection 2

| | |
|---|---|
| Type | Valve connector BI (11 mm) |
| Material | CuSn (Contact) |
| | Sn (Contact surface) |
| | PA 6.6 (Contact carrier) |
| | TPU (Housing) |
| Protective circuit | Z diode |

Connection 3

| | |
|---|---|
| Type | Valve connector BI (11 mm) |
| Material | CuSn (Contact) |
| | Sn (Contact surface) |
| | PA 6.6 (Contact carrier) |
| | TPU (Housing) |
| Protective circuit | Z diode |

## Cable/line

| | |
|---|---|
| Cable length | 1.5 m |
| | 0.2 m |

PUR/PVC, 0.75 mm², black [116]

| | |
|---|---|
| Dimensional drawing | |
| Cable weight | 57 kg/km |
| UL AWM Style | 20549 |
| Number of positions | 4 |
| Shielded | no |
| Cable type | PUR/PVC, 0.75 mm², black [116] |
| Conductor structure signal line | 24x 0.20 mm |
| AWG signal line | 18 |
| Conductor cross-section | 4x 0.75 mm² |
| Wire diameter incl. insulation | 1.7 mm ±0.05 mm |
| External cable diameter | 6.30 mm ±0.2 mm |
| Outer sheath, material | PUR |

| | |
|---|---|
| External sheath, color | black |
| Conductor material | Bare Cu litz wires |
| Material wire insulation | PVC |
| Single wire, color | black 1, black 2, black 3, green/yellow |
| Overall twist | 4 wires, twisted |
| Max. conductor resistance | 26 Ω/km (at 20 °C) |
| Insulation resistance | ≥ 20 MΩ*km |
| Nominal voltage, cable | 300 V |
| Test voltage | 1200 V |
| Smallest bending radius, fixed installation | 63 mm |
| Flame resistance | according to DIN VDE 0482 |
| | According to DIN EN 50265-2-1 |
| | in acc. with UL FT-2 |
| Ambient temperature (operation) | -5 °C ... 80 °C (Cable, flexible installation) |
| | -40 °C ... 80 °C (cable, fixed installation) |

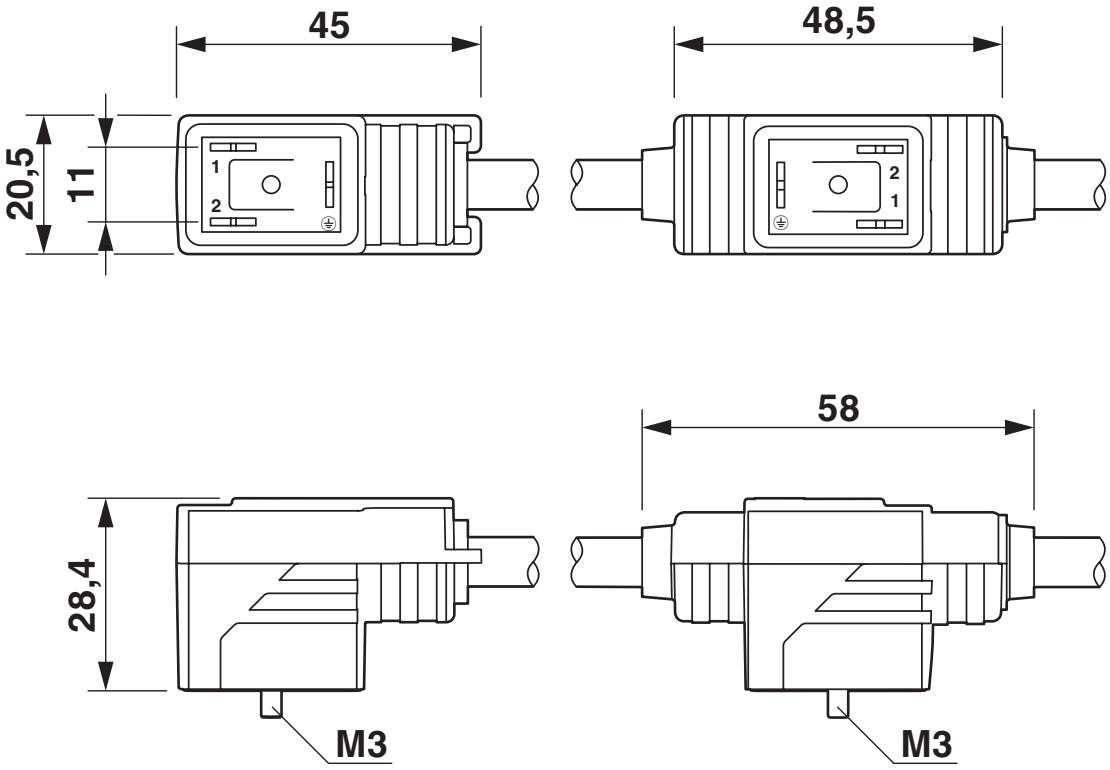
## Environmental and real-life conditions

### Ambient conditions

| | |
|---|---|
| Degree of protection | IP65 |
| | IP67 |
| Ambient temperature (operation) (Valve connector) | -25 °C ... 85 °C (Valve connector) |

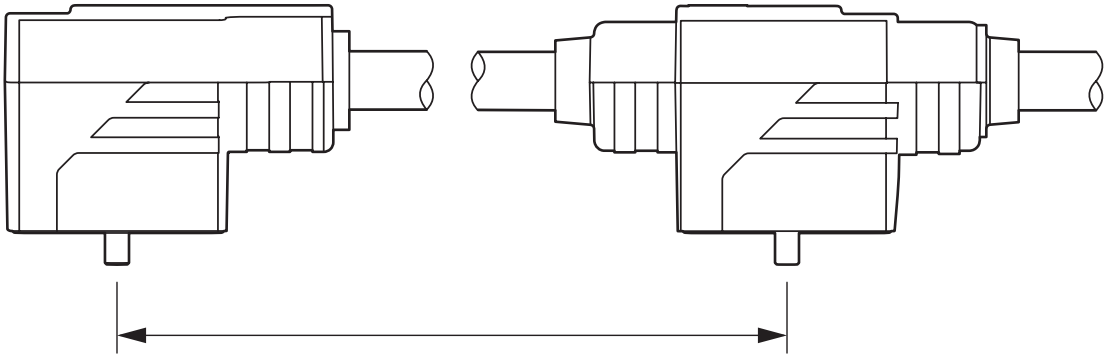
## Drawings

Dimensional drawing



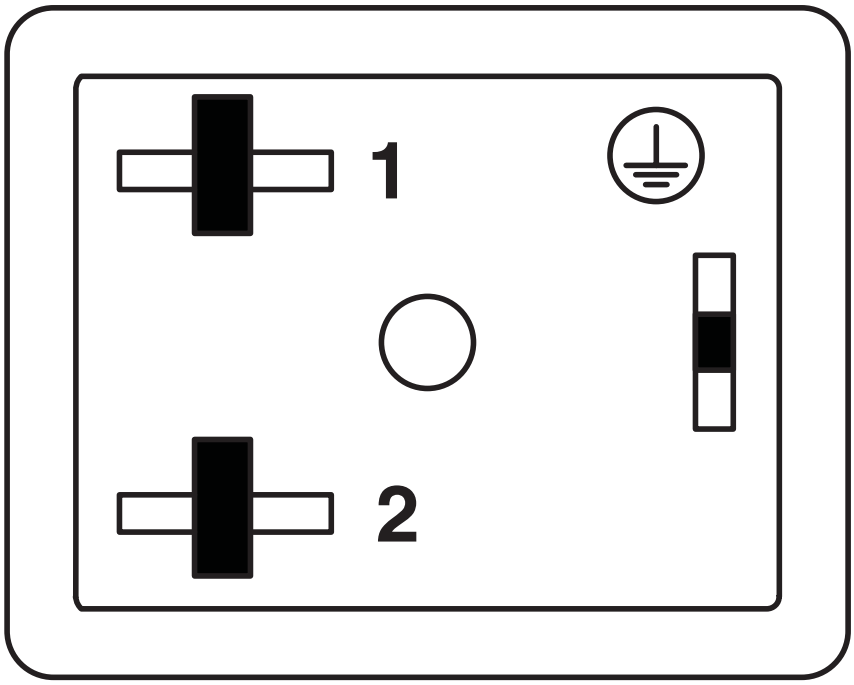

Double valve plug, 2 x type BI

Dimensional drawing



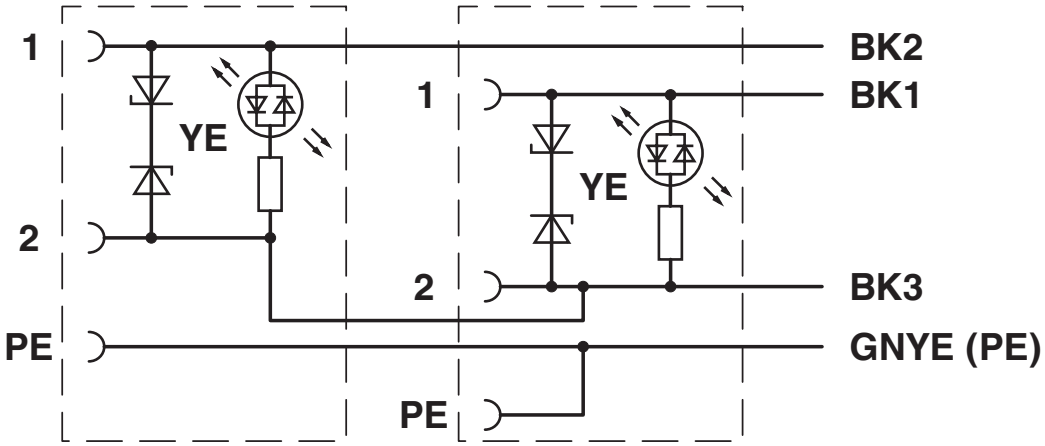
Valve connector spacing

Schematic diagram




Valve connector pin assignment, type BI

Circuit diagram




Contact assignment of the double-valve connector

## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1458428

**EAC-RoHS**
Approval ID: RU D-DE.HB35.B.00387

**CSAus**
Approval ID: 13631

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| | 24 V | 6 A | - | - |

## Classifications

### ECLASS

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

### ETIM

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

### UNSPSC

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

## 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% |

EF3.1 Climate Change

| | |
|---|---|
| CO2e kg | 2.128 kg CO2e |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