

SAC- 3,0/0,2-116/2XBI-1L-Z - Double valve connector cable



1458431

<https://www.phoenixcontact.com/us/products/1458431>

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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: 3 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 | 1458431 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | BF07 |
| Product key | AF1DIA |
| GTIN | 4046356638883 |
| Weight per piece (including packing) | 245.66 g |
| Weight per piece (excluding packing) | 241.66 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 |
| 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 |
| 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 | 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 | 3 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 mm ² , black [116] |
| Conductor structure signal line | 24x 0.20 mm |
| AWG signal line | 18 |
| Conductor cross-section | 4x 0.75 mm ² |
| Wire diameter incl. insulation | 1.7 mm ±0.05 mm |
| External cable diameter | 6.30 mm ±0.2 mm |
| Outer sheath, material | PUR |

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| | |
|---|--|
| 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 M Ω *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) |

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Drawings

Dimensional drawing



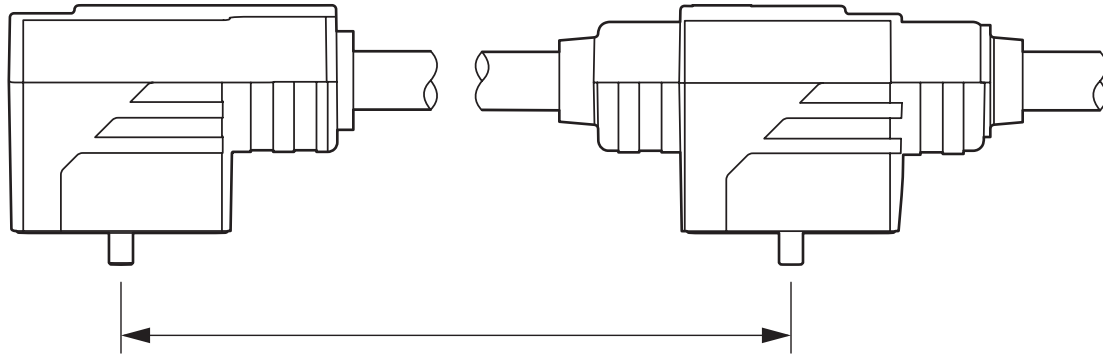
Double valve plug, 2 x type BI

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Dimensional drawing



Valve connector spacing

Schematic diagram



Valve connector pin assignment, type BI

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Circuit diagram



Contact assignment of the double-valve connector

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Approvals

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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 | - | - |

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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 |
| 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 | 2.834 kg CO2e |
|---------|---------------|

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