

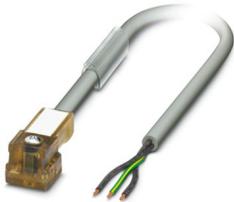
# SAC-3P- 5,0-PUR/C-1L-S F - Sensor/actuator cable



1669990

<https://www.phoenixcontact.com/pc/products/1669990>

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Sensor/actuator cable, 3-position, PUR/PVC, gray RAL 7001, free cable end, on Valve connector C (8 mm), with 1 LED, Wiring: Z diode, cable length: 5 m

## Your advantages

- Easy and safe: 100 % electrically tested plug-in components
- Convenient: increased machine availability thanks to quick and easy diagnostics
- Compact: flat design for applications where space is at a premium

## Commercial data

Item number	1669990
Packing unit	5 pc
Minimum order quantity	150 pc
Sales key	02
Product key	BF1DWA
Catalog page	Page 108 (PC-2002)
GTIN	4017918134891
Weight per piece (including packing)	275.6 g
Weight per piece (excluding packing)	275.6 g
Customs tariff number	85444290
Country of origin	DE

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## Technical data

### Product properties

Product type	Sensor/actuator cable with valve connector
Application	Standard
Number of positions	3
No. of cable outlets	1
Shielded	no

### Insulation characteristics

Overvoltage category	II
Degree of pollution	3

### Material specifications

Flammability rating according to UL 94	V0
Seal material	TPU
Material housing valve plug	PBT
Contact material	CuSn
Valve plug contact insert material	PBT
Contact surface material	Ag
Outer sheath, material	PUR
Conductor material	Bare Cu litz wires

### Electrical properties

Insulation resistance	$\geq 100 \text{ M}\Omega$
Nominal voltage $U_N$	24 V AC
	24 V DC
Nominal current $I_N$	3 A

### Valve connector characteristics

Fixing screws	M2,5 x 27,5
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### Signaling

Status display	1 LED
Status display present	Yes

### Connector

#### Connection 1

Type	free cable end
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#### Connection 2

Type	Valve connector C (8 mm)
Number of positions	3
Material	CuSn (Contact)
	Ag (Contact surface)

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	PBT (Contact carriers)
	PBT (Housing)

## Cable/line

Cable length	5 m
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### PUR/PVC gray [100]

Number of positions	3
Shielded	no
Cable type	PUR/PVC gray [100]
Conductor structure signal line	24x 0.20 mm
AWG signal line	18
Conductor cross section	3x 0.75 mm <sup>2</sup> (Signal line)
Wire diameter incl. insulation	approx. 1.8 mm (Signal line)
External cable diameter	5.20 mm
Outer sheath, material	PUR
External sheath, color	gray RAL 7001
Conductor material	Bare Cu litz wires
Material wire insulation	PVC
Single wire, color	black 1, black 2, green/yellow
Thickness, insulation	approx. 0.34 mm (Core insulation)
	approx. 0.30 mm (Inner sheath)
	approx. 0.35 mm (Outer cable sheath)
Overall twist	3 concentrically twisted wires
Length of twist, overall twist	83 mm
Insulation resistance	≥ 1 MΩ*km
Nominal voltage, cable	240 V
Test voltage	2000 V
Smallest bending radius, fixed installation	63 mm
Smallest bending radius, movable installation	63 mm
Dynamic load capacity (bending)	Max. bending cycles: 2000000, Bending radius: 63 mm, Traversing path: 5 m, Traversing rate: 3 m/s
Ambient temperature (operation)	-25 °C ... 80 °C (cable, fixed installation)
	-5 °C ... 80 °C (Cable, flexible installation)

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP65
	IP67
	IP68
Ambient temperature (operation)	-20 °C ... 80 °C (valve plug)
	-30 °C ... 80 °C (cable, fixed installation)
	-5 °C ... 70 °C (Cable, flexible installation)

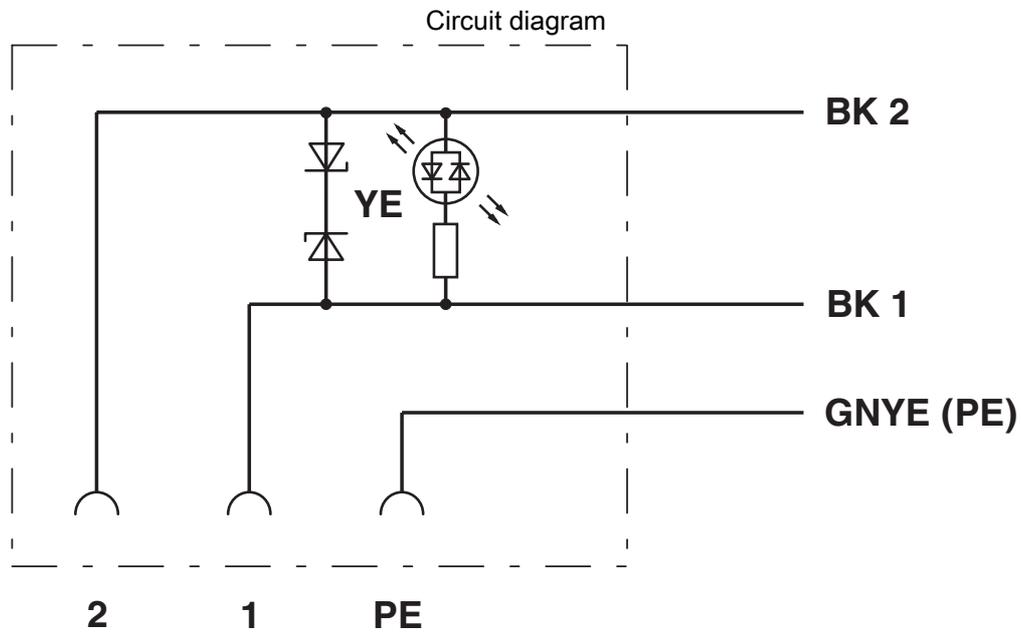
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## Drawings



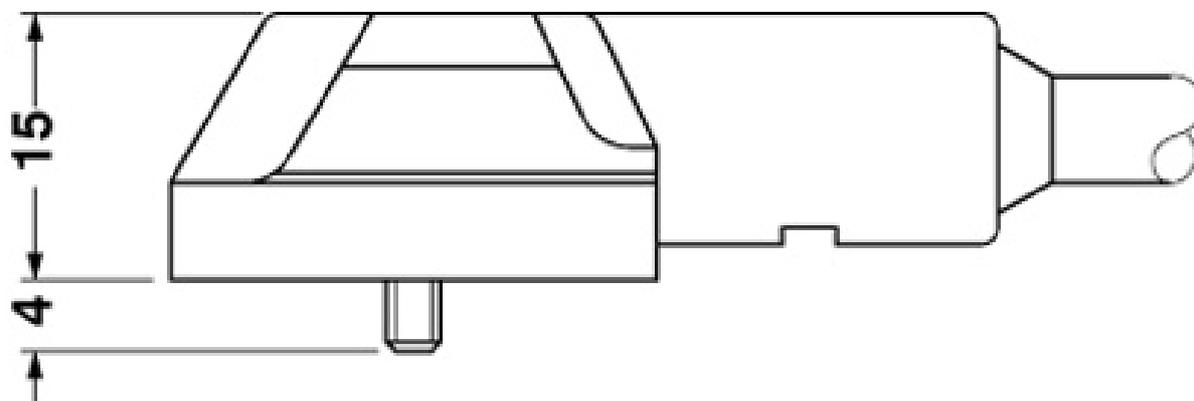
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Dimensional drawing



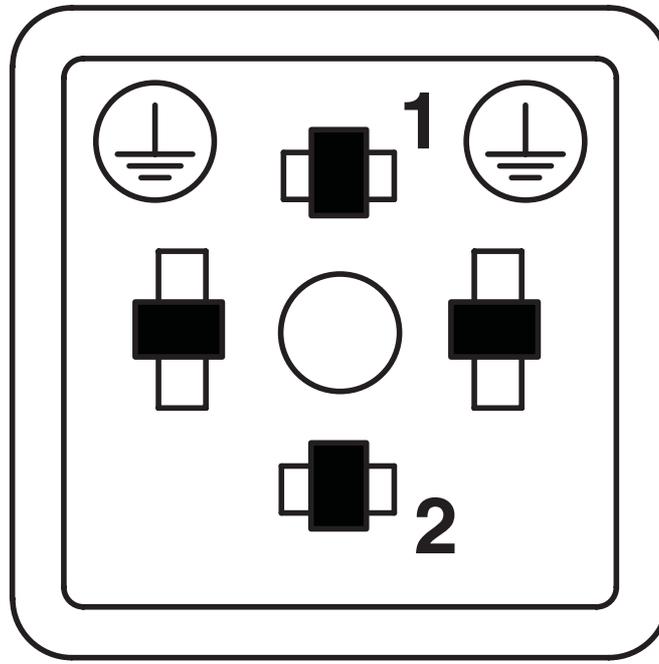
Valve connector, type C, flat

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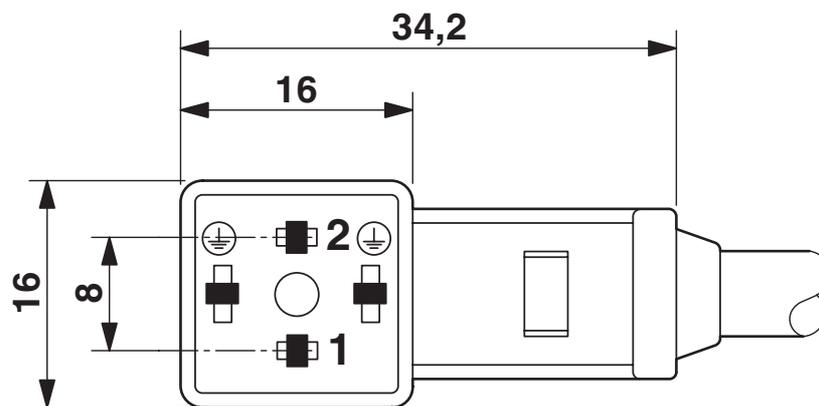
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Schematic diagram



Valve connector connector pin assignment, type C

Dimensional drawing



Valve connector, type C, flat

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## Classifications

### ECLASS

ECLASS-11.0	27060311
ECLASS-13.0	27060311

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## Environmental product compliance

### 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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