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# Sensor/Actuator cable - SAC-3P- 3,0-PUR/A-1L-R-ES 4A - 1401131

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Sensor/Actuator cable, 3-position, PUR, black, free cable end, on Valve connector A, with 1 LED, connected with Damping diode, Cable length: 3 m, With holding current limiting device for energy reduction

## Key Commercial Data

Packing unit	1 STK
GTIN	 4 046356 924528

## Technical data

### Dimensions

Length of cable	3 m
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### Ambient conditions

Ambient temperature (operation)	-25 °C ... 80 °C (valve plug)
Degree of protection	IP67

### General

Rated current at 40°C	4 A
Rated voltage	24 V DC ±20 %
Number of positions	3
Insulation resistance	≥ 100 MΩ
Standards/regulations	Valve connector EN 175301-803
Status display	1 LED
Protective circuit/component	Freewheeling diode with holding current limiting device
Switch-over time	approx. 500 ms (Initial operating time)
Clock frequency	approx. 800 Hz (Holding current limiting device)
Switching frequency	max. 1 Hz (Connected valve)

### Material

Valve plug contact material	CuSn
Valve plug contact surface material	Ag
Valve plug contact insert material	PA 66
Material housing valve plug	TPU
Sealing material	TPU (Seal molded)

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## Technical data

### Standards and Regulations

Standard designation	Valve connector
Standards/regulations	EN 175301-803

### Cable

Cable type	PUR halogen-free black
Cable type (abbreviation)	PUR
Cable abbreviation	Li9Y11Y-HF
UL AWM style	20549
Conductor cross section	3x 0.5 mm <sup>2</sup>
AWG signal line	20
Conductor structure signal line	28x 0.15 mm
Core diameter including insulation	1.5 mm ±0.05 mm (Signal line)
Wire colors	black 1, black 2, green/yellow
Overall twist	3 wires, twisted
External sheath, color	black-gray RAL 7021
External cable diameter D	4.5 mm ±0.2 mm
Smallest bending radius, fixed installation	22.5 mm
Number of bending cycles	15000000
Bending radius	50 mm
Traversing path	0.9 m
Traversing rate	5 m/s
Acceleration	30 m/s <sup>2</sup>
Outer sheath, material	PUR
Material conductor insulation	PP
Conductor material	Bare Cu litz wires
Insulation resistance	min. 20 MΩ*km
Conductor resistance	39 Ω/km (at 20 °C)
Nominal voltage, cable	≤ 300 V
Test voltage, cable	≥ 1200 V
Flame resistance	According to DIN VDE 0482
	According to DIN EN 50265-2-1
Halogen-free	in accordance with DIN VDE 0472 part 815
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)

## Classifications

eCl@ss

eCl@ss 5.1	27061801
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## Classifications

### eCl@ss

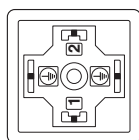
eCl@ss 6.0	27061801
eCl@ss 8.0	27279218

### ETIM

ETIM 4.0	EC001855
ETIM 5.0	EC001855

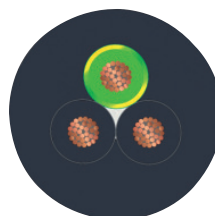
## Drawings

Schematic diagram



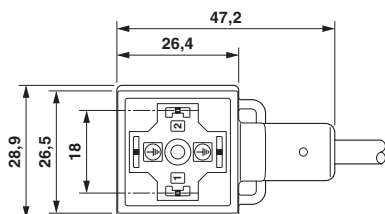
Valve connector pin assignment, type A

Cable cross section



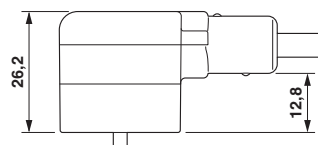
PUR halogen-free black [PUR]

Dimensional drawing



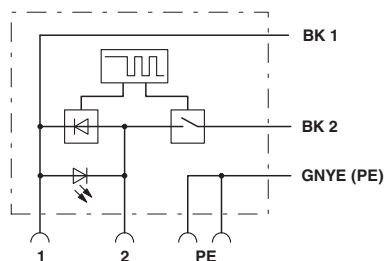
Valve connector, type A

Dimensional drawing



Valve connector, type A, side view

Circuit diagram



Contact assignment of the valve plug

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