

SAC-3P-5,0-116/C - Sensor/actuator cable



1402850

<https://www.phoenixcontact.com/us/products/1402850>

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Sensor/actuator cable, 3-position, PUR/PVC, black RAL 9005, free cable end, on Valve connector C (8 mm), cable length: 5 m

Commercial data

Item number	1402850
Packing unit	1 pc
Minimum order quantity	50 pc
Product key	AF1DEA
GTIN	4046356633512
Weight per piece (including packing)	22.22 g
Weight per piece (excluding packing)	22.22 g
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

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Material specifications

Flammability rating according to UL 94	V0
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	230 V AC
	230 V DC
Nominal current I_N	6 A

Connector

Connection 1

Type	free cable end
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Connection 2

Type	Valve connector C (8 mm)
Material	CuSn (Contact)
	Sn (Contact surface)
	PA 6.6 (Contact carrier)
	TPU (Housing)

Cable/line


Cable length	5 m
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PUR/PVC, 0.75 mm², black [116]

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Dimensional drawing	
Cable weight	53.4 kg/km
UL AWM Style	20549
Number of positions	3
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	3x 0.75 mm ²
Wire diameter incl. insulation	1.7 mm ±0.05 mm
External cable diameter	5.80 mm ±0.2 mm
Outer sheath, material	PUR
External sheath, color	black RAL 9005
Conductor material	Bare Cu litz wires
Material wire insulation	PVC
Single wire, color	black 1, black 2, green/yellow
Overall twist	3 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
Minimum bending radius, fixed installation	5 x D
Minimum bending radius, flexible installation	10 x D
Smallest bending radius, fixed installation	29 mm
Smallest bending radius, movable installation	58 mm
Dynamic load capacity (bending)	Max. bending cycles: 1000000, Traversing path: 10 m, Traversing rate: 2 m/s, Acceleration: 2.5 m/s ²
Flame resistance	DIN VDE 0482 DIN EN 50265-2-1 in acc. with UL FT-2
Resistance to oil	in accordance with DIN EN 60811-2-1
Other resistance	Low adhesion
Special properties	flexible
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation) -5 °C ... 80 °C (Cable, flexible installation)

Environmental and real-life conditions

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Ambient conditions

Degree of protection	IP65
	IP67
Ambient temperature (operation) (Valve connector)	-20 °C ... 85 °C (Valve connector)

Standards and regulations

Standard designation	Valve connector
Standards/specifications	EN 175301-803

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Drawings

Dimensional drawing



Valve connector, type C

Dimensional drawing



Valve connector, type C, side view

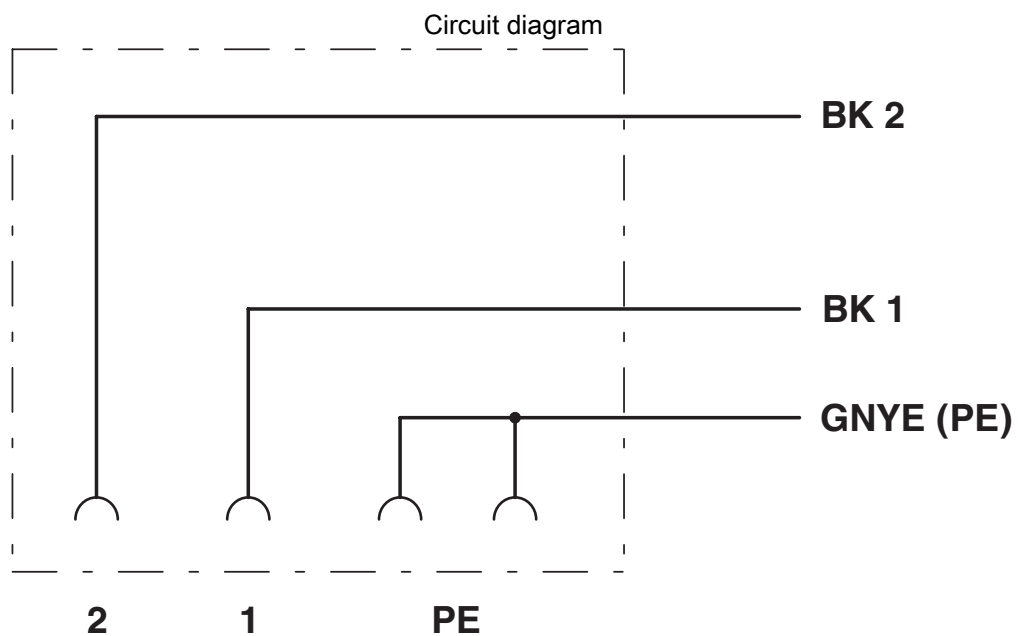
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Schematic diagram



Valve connector connector pin assignment, type C



Contact assignment of the valve plug

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Classifications

ECLASS

ECLASS-13.0	27060312
ECLASS-15.0	27060312

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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

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