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Sensor/actuator cable, 3-position, PUR/PVC, black RAL 9005, Plug straight M12, A-coded, on Valve connector A, with 1 LED, connected with Z diode, cable length: 6 m

The figure shows the SPEEDCON version



### **Key Commercial Data**

Packing unit	1 pc
Minimum order quantity	50 pc
GTIN	4 046356 962773
GTIN	4046356962773

#### Technical data

# Dimensions Length of cable

General		
Rated current at 40°C	4 A	
Rated voltage	24 V AC	
	24 V DC	
Number of positions	3	
Insulation resistance	$\geq$ 100 M $\Omega$	
Coding	A - standard	
Status display	1 LED	
Protective circuit/component	Z diode	
Overvoltage category	III	
Degree of pollution	3	
Insertion/withdrawal cycles	≥ 100	

Material



### Technical data

### Material

Flammability rating according to UL 94	V0
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	TPU GF
Valve plug contact material	CuSn
Valve plug contact surface material	Sn
Valve plug contact insert material	PA 6.6
Material housing valve plug	TPU
Material, knurls	Zinc die-cast, nickel-plated
Sealing material	TPU (Seal molded)

### Standards and Regulations

Flame resistance	in accordance with DIN UL-Style 20549
Other resistance	Highly resistant to acids, alkaline solutions and solvents
	hydrolysis and microbe resistant
Flammability rating according to UL 94	V0

#### Cable

Cable type	PUR/PVC, 0.75 mm², black
Cable type (abbreviation)	116
Cable abbreviation	LiYY11Y
UL AWM style	20549
Conductor cross section	3x 0.75 mm²
AWG signal line	18
Conductor structure signal line	24x 0.20 mm
Core diameter including insulation	1.7 mm ±0.05 mm
Wire colors	black 1, black 2, green/yellow
Overall twist	3 wires, twisted
External sheath, color	black RAL 9005
External cable diameter D	5.8 mm ±0.2 mm
Minimum bending radius, flexible installation	10 x D
Number of bending cycles	1000000
Traversing rate	2 m/s
Acceleration	2.5 m/s²
Outer sheath, material	PUR
Material, inner sheath	PVC
Material conductor insulation	PVC
Conductor material	Bare Cu litz wires
Insulation resistance	≥ 20 MΩ*km
Conductor resistance	26 Ω/km (at 20 °C)
Nominal voltage, cable	300 V
Test voltage, cable	1200 V



### Technical data

#### Cable

Special properties	flexible
Flame resistance	DIN VDE 0482
	DIN EN 50265-2-1
	in acc. with UL FT-2
Other resistance	Low adhesion
Ambient temperature (operation)	-40 °C 80 °C (cable, fixed installation)
	-5 °C 80 °C (cable, flexible installation)

### **Drawings**

Schematic diagram



Pin assignment M12 plug, 3-pos., valve connector

Cable cross section



PUR/PVC black [116]

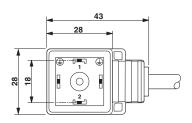


Schematic diagram



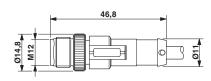
Valve connector pin assignment, type A

#### Dimensional drawing

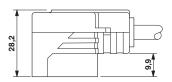


Valve connector, type A

Dimensional drawing



#### Dimensional drawing

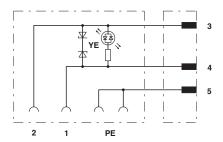


Valve connector, type A, side view

Plug, M12 x 1, straight, shielded







Contact assignment of M12 plug and valve connector

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