

Sensor/actuator cable - SAC-3P-M12MS/1,5-PUR/B-1L-Z VW - 1400601


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Sensor/actuator cable, 3-position, PUR halogen-free, irradiated, orange RAL 2003, Plug straight M12, A-coded, on Valve connector B (10 mm), with 1 LED, connected with Z diode, cable length: 1.5 m

RoHS

Key Commercial Data

Packing unit	5 pc
GTIN	 4 046356 513081
GTIN	4046356513081

Technical data

Dimensions

Length of cable	1.5 m
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Ambient conditions

Ambient temperature (operation)	-25 °C ... 90 °C (Plug / socket)
	-20 °C ... 85 °C (valve plug)
Degree of protection	IP65
	IP67

General

Rated current at 40°C	4 A
Rated voltage	24 V AC
	24 V DC
Number of positions	3
Insulation resistance	≥ 100 MΩ
Coding	A - standard
Status display	1 LED
Protective circuit/component	Z diode
Overvoltage category	III
Degree of pollution	3

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Technical data

Material

Flammability rating according to UL 94	HB
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	TPU GF
Material of grip body	TPU
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

Flammability rating according to UL 94	HB
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Cable

Cable type	PUR irradiated halogen-free orange
Cable type (abbreviation)	150
Cable abbreviation	Li12Y11X
Conductor cross section	3x 0.5 mm ² (Signal line)
AWG signal line	20
Conductor structure signal line	28x 0.15 mm
Core diameter including insulation	1.46 mm ±0.02 mm (Signal line)
Thickness, insulation	≥ 0.21 mm (Core insulation)
	approx. 0.6 mm (Outer cable sheath)
Wire colors	black 1, black 2, green/yellow
Overall twist	3 wires, twisted
External sheath, color	orange RAL 2003
External cable diameter D	4.5 mm ±0.15 mm
Number of bending cycles	5000000
Bending radius	45 mm
Traversing path	10 m
Traversing rate	3 m/s
Cable weight	31 kg/km
Outer sheath, material	PUR
Material conductor insulation	TPE-E
Conductor material	Bare Cu litz wires
Insulation resistance	≥ 100 MΩ*km (at 20 °C)
Conductor resistance	max. 39 Ω/km (at 20 °C)
Nominal voltage, cable	≤ 300 V
Test voltage, cable	≥ 3000 V
Special properties	Silicone-free

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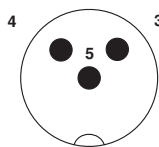
Technical data

Cable

	Irradiated
Flame resistance	in accordance with DIN UL-Style 20549
Halogen-free	in accordance with DIN VDE 0472 part 815
Ambient temperature (operation)	-25 °C ... 80 °C (cable, fixed installation)
	-5 °C ... 80 °C (cable, flexible installation)

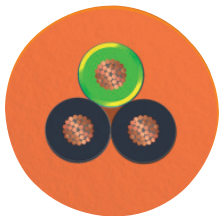
Drawings

Schematic diagram



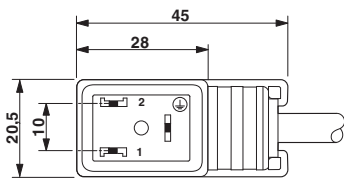
Pin assignment M12 plug, 3-pos., valve connector

Cable cross section



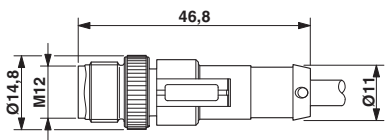
PUR irradiated halogen-free orange [150]

Dimensional drawing



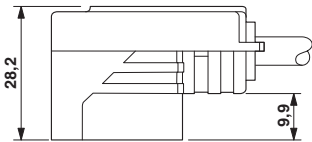
Valve connector, type B

Dimensional drawing



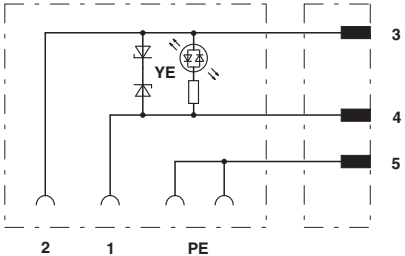
Plug, M12 x 1, straight, shielded

Dimensional drawing



Valve connector, type B, side view

Circuit diagram



Contact assignment of M12 plug and valve connector

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