

Sensor/actuator cable - SAC-5P-MS/0,7-PUR/AD-2L VW - 1439625

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



Sensor/actuator cable, 5-position, PUR halogen-free, irradiated, orange RAL 2003, Plug straight M12, A-coded, on Valve connector AD (pressure switch), with 2 LEDs, cable length: 0.7 m, Customer-specific version

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 489577
GTIN	4046356489577

Technical data

Dimensions

Length of cable	0.7 m
-----------------	-------

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	5
Insulation resistance	≥ 100 MΩ
Coding	A - standard
Standards/regulations	M12 connector IEC 61076-2-101
	Valve connector EN 175301-803
Status display	2 LEDs
Overvoltage category	II

Sensor/actuator cable - SAC-5P-MS/0,7-PUR/AD-2L VW - 1439625

Technical data

General

Degree of pollution	3
---------------------	---

Material

Flammability rating according to UL 94	V0
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
Material housing valve plug	TPU
Material, knurls	Zinc die-cast, nickel-plated
Sealing material	TPU (Seal molded)

Standards and Regulations

Standard designation	M12 connector
Standards/regulations	IEC 61076-2-101
Standard designation	Valve connector
Standards/regulations	EN 175301-803
Flammability rating according to UL 94	V0

Cable

Cable type	PUR irradiated halogen-free orange
Cable type (abbreviation)	150
Cable abbreviation	Li12Y11X
Conductor cross section	5x 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, black 3, black 4, green/yellow
Overall twist	5 wires around filler to the core
External sheath, color	orange RAL 2003
External cable diameter D	5.8 mm ±0.15 mm
Number of bending cycles	5000000
Bending radius	5.3 mm
Traversing path	10 m
Traversing rate	3 m/s
Outer sheath, material	PUR
Material, filler	PP

Sensor/actuator cable - SAC-5P-MS/0,7-PUR/AD-2L VW - 1439625

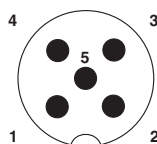
Technical data

Cable

Material conductor insulation	TPE-E
Conductor material	Bare Cu litz wires
Insulation resistance	$\geq 100 \text{ M}\Omega \cdot \text{km}$
Conductor resistance	max. $39 \text{ }\Omega/\text{km}$
Nominal voltage, cable	$\leq 300 \text{ V}$
Test voltage, cable	$\geq 3000 \text{ V}$
Special properties	Silicone-free
	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)

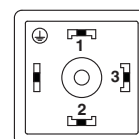
Drawings

Schematic diagram



Pin assignment M12 male connector, 5-pos., A-coded, male side

Schematic diagram



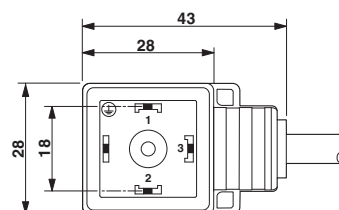
Valve plug connector pin assignment, type AD

Cable cross section



PUR irradiated halogen-free orange [150]

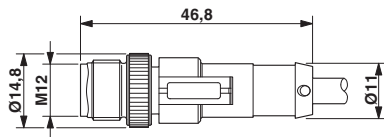
Dimensional drawing



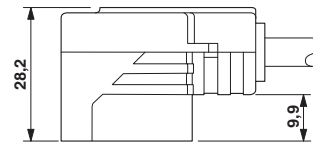
Valve connector, type AD

Sensor/actuator cable - SAC-5P-MS/0,7-PUR/AD-2L VW - 1439625

Dimensional drawing



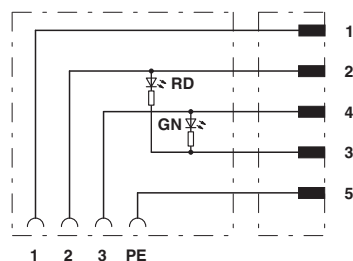
Dimensional drawing



Valve connector, type AD, side view

M12 SPEEDCON plug, straight

Circuit diagram



Contact assignment of M12 plug and valve connector

Phoenix Contact 2018 © - all rights reserved
<http://www.phoenixcontact.com>

PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstr. 8
32825 Blomberg
Germany
Tel. +49 5235 300
Fax +49 5235 3 41200
<http://www.phoenixcontact.com>

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Phoenix Contact:](#)

[1439625](#)