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Especialistas en Automatización

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## Sensor/Actuator cable - SAC-5P-MS/ 3,0-PUR/AD-2L SCO - 1435069

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Sensor/Actuator cable, 5-position, PUR halogen-free, black RAL 9005, Plug straight M12 SPEEDCON, A-coded, on Valve connector AD (pressure switch), with 2 LEDs, Cable length: 3 m

### Why buy this product

- Easy and safe: 100% electrically tested plug-in components
- Robust valve connector without protective circuit
- Save time, thanks to installation with SPEEDCON fast locking system
- Our standard: robust halogen-free PUR cable



### Key Commercial Data

Packing unit	1 STK
GTIN	 4 046356 413435

### Technical data

#### Dimensions

Length of cable	3 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
Number of positions	5
Insulation resistance	≥ 100 MΩ
Coding	A - standard
Standards/regulations	M12 connector IEC 61076-2-101

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## Technical data

### General

	Valve connector EN 175301-803
Status display	2 LEDs
Protective circuit/component	Unwired
Overvoltage category	II
Degree of pollution	3
Insertion/withdrawal cycles	≥ 100 (M12 connector)
Torque	0.4 Nm (M12 connector)
	0.6 Nm (Valve connector)

### 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 halogen-free black
Cable type (abbreviation)	PUR
Cable abbreviation	Li9Y11Y-HF
UL AWM style	20549
Conductor cross section	5x 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, black 3, black 4, green/yellow
Overall twist	5 cores, twisted
External sheath, color	black-gray RAL 7021
External cable diameter D	5.3 mm ±0.02 mm

# Sensor/Actuator cable - SAC-5P-MS/ 3,0-PUR/AD-2L SCO - 1435069

## Technical data

### Cable

Smallest bending radius, fixed installation	26.5 mm
Smallest bending radius, movable installation	53 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
Special properties	Flexible cable conduit capable
	Silicone-free
	Free of substances which would hinder coating with paint or varnish
Flame resistance	in accordance with DIN UL-Style 20549
Halogen-free	in accordance with DIN VDE 0472 part 815
Resistance to oil	in accordance with DIN EN 60811-2-1
Other resistance	Highly resistant to acids, alkaline solutions and solvents
	hydrolysis and microbe resistant
	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 4.0	27060306
eCl@ss 4.1	27060306
eCl@ss 5.0	27061801
eCl@ss 5.1	27061801
eCl@ss 6.0	27061801
eCl@ss 7.0	27061801
eCl@ss 8.0	27279218
eCl@ss 9.0	27060312

### ETIM

ETIM 3.0	EC001855
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# Sensor/Actuator cable - SAC-5P-MS/ 3,0-PUR/AD-2L SCO - 1435069

## Classifications

### ETIM

ETIM 4.0	EC001855
ETIM 5.0	EC001855

### UNSPSC

UNSPSC 6.01	31251501
UNSPSC 7.0901	31251501
UNSPSC 11	31251501
UNSPSC 12.01	31251501
UNSPSC 13.2	31251501

## Approvals

### Approvals

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### Approvals

EAC

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### Ex Approvals

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### Approvals submitted

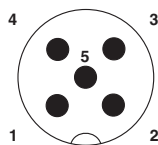
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## Approval details

EAC
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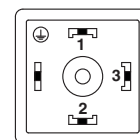
## Drawings

Schematic diagram



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

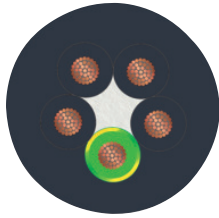
Schematic diagram



Valve plug connector pin assignment, type AD

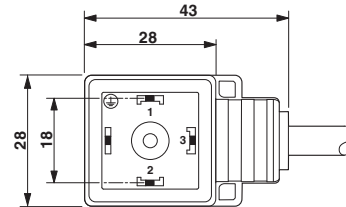
# Sensor/Actuator cable - SAC-5P-MS/ 3,0-PUR/AD-2L SCO - 1435069

Cable cross section



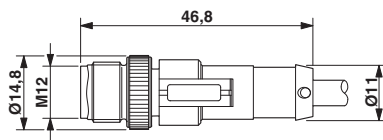
PUR halogen-free black [PUR]

Dimensional drawing



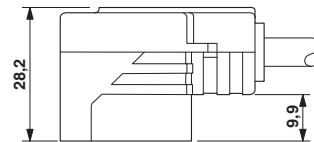
Valve connector, type AD

Dimensional drawing



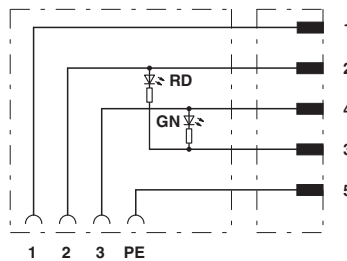
M12 SPEEDCON plug, straight

Dimensional drawing



Valve connector, type AD, side view

Circuit diagram



Contact assignment of M12 plug and valve connector

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