

# SAC-5P-MS/0,8-PUR/AD-2L 12W3 - Sensor/actuator cable



1407883

<https://www.phoenixcontact.com/us/products/1407883>

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Sensor/actuator cable, 5-position, PUR halogen-free, black-gray RAL 7021, Plug straight M12 SPEEDCON, coding: A, with 2 LEDs, on Valve connector AD (pressure switch), with 2 LEDs, Wiring: unwired, cable length: 0.8 m

## Commercial data

Item number	1407883
Packing unit	1 pc
Minimum order quantity	50 pc
Product key	AF1DKA
GTIN	4046356784641
Weight per piece (including packing)	64.416 g
Weight per piece (excluding packing)	64.416 g
Country of origin	PL

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## Technical data

### Product properties

Product type	Sensor/actuator cable with valve connector
Number of positions	5
No. of cable outlets	1
Shielded	no
Coding	A

### Insulation characteristics

Overvoltage category	II
Degree of pollution	3

### Material specifications

Flammability rating according to UL 94	V0
Seal material	TPU
Material housing valve plug	TPU
Material of grip body	TPU
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	TPU GF
Contact material	CuSn
Valve plug contact insert material	PA 6
Contact surface material	Sn
Material for screw connection	Zinc die-cast, nickel-plated

### Electrical properties

Insulation resistance	$\geq 100 \text{ M}\Omega$
Nominal voltage $U_N$	24 V AC
	24 V DC
Nominal current $I_N$	4 A

### Mechanical properties

#### Mechanical data

Insertion/withdrawal cycles	$\geq 100$ (M12 connector)
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### Signaling

Status display	2 LEDs
Status display present	yes

### Connector

#### Connection 1

Type	Plug straight M12 SPEEDCON
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Number of positions	5
Locking type	SPEEDCON
Coding type	A

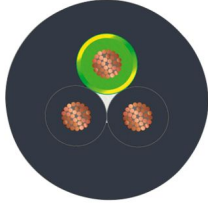
## Connection 2

Type	Valve connector AD (pressure switch)
Number of positions	5
Material	CuSn (Contact)
	Sn (Contact surface)
	PA 6 (Contact carrier)
	TPU (Housing)
Protective circuit	unwired

## Cable/line

Cable length	0.8 m
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## PUR halogen-free black [PUR]

Dimensional drawing	
Cable weight	30 kg/km
UL AWM Style	20549
Number of positions	3
Shielded	no
Cable type	PUR halogen-free black [PUR]
Conductor structure signal line	28x 0.15 mm
AWG signal line	20
Conductor cross-section	3x 0.5 mm <sup>2</sup>
Wire diameter incl. insulation	1.5 mm ±0.05 mm (Signal line)
External cable diameter	4.50 mm ±0.2 mm
Outer sheath, material	PUR
External sheath, color	black-gray RAL 7021
Conductor material	Bare Cu litz wires
Material wire insulation	PP
Single wire, color	black 1, black 2, green/yellow
Overall twist	3 wires, twisted
Max. conductor resistance	39 Ω/km (at 20 °C)
Insulation resistance	min. 20 MΩ*km
Nominal voltage, cable	≤ 300 V
Test voltage	≥ 1200 V

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Minimum bending radius, fixed installation	5 x D
Minimum bending radius, flexible installation	10 x D
Smallest bending radius, fixed installation	22.5 mm
Smallest bending radius, movable installation	45 mm
Dynamic load capacity (bending)	Max. bending cycles: 15000000, Bending radius: 50 mm, Traversing path: 0.9 m, Traversing rate: 5 m/s, Acceleration: 30 m/s <sup>2</sup>
Halogen-free	in accordance with DIN VDE 0472 part 815
Flame resistance	according to DIN VDE 0482 According to DIN EN 50265-2-1
Resistance to oil	in accordance with DIN EN 60811-2-1
Other resistance	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)

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP65 IP67
Ambient temperature (operation)	-25 °C ... 90 °C (Plug / socket) -20 °C ... 85 °C (Valve connector) -40 °C ... 80 °C (cable, fixed installation) -15 °C ... 80 °C (Cable, flexible installation)

## Standards and regulations

### M12

Standard designation	M12 connector
Standards/specifications	IEC 61076-2-101

### Valve connector

Standard designation	Valve connector
Standards/specifications	EN 175301-803

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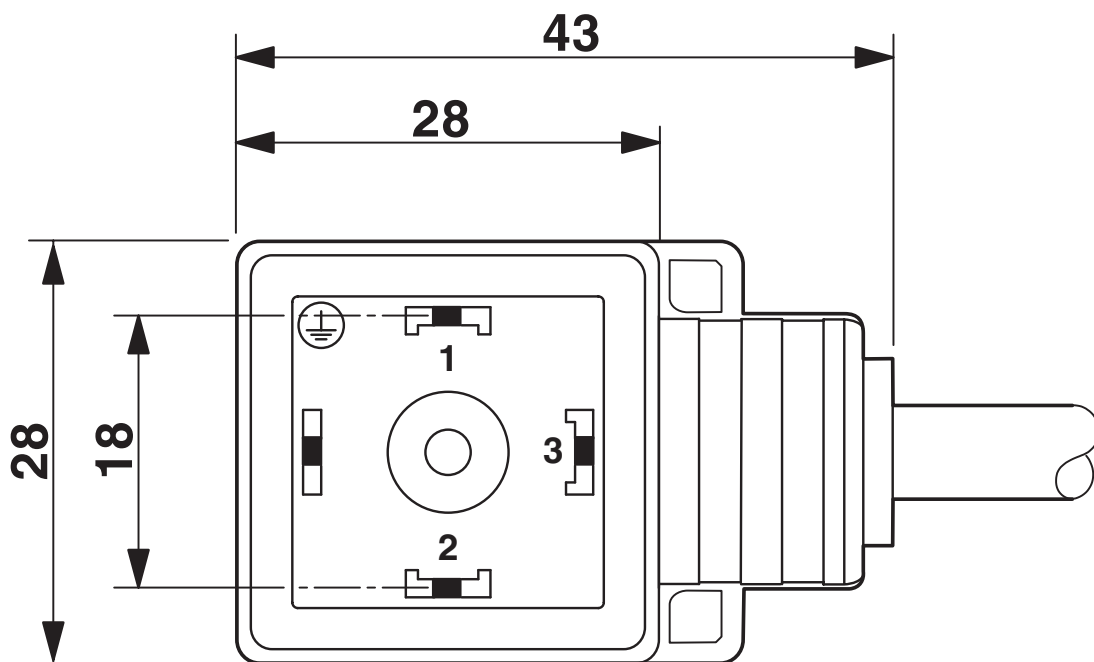
## Drawings

Dimensional drawing



M12 SPEEDCON plug, straight

Dimensional drawing



Valve connector, type AD

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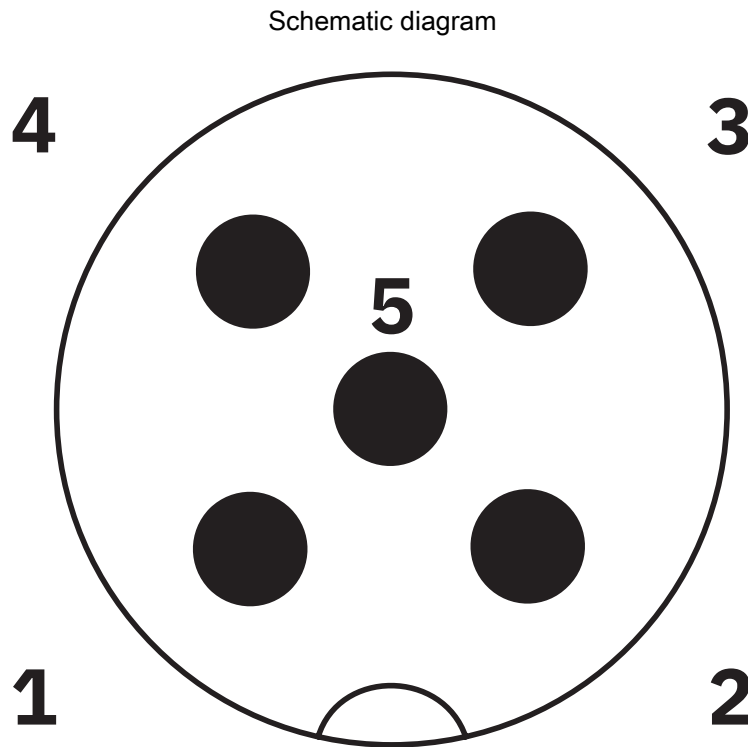


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Valve connector, type AD, side view



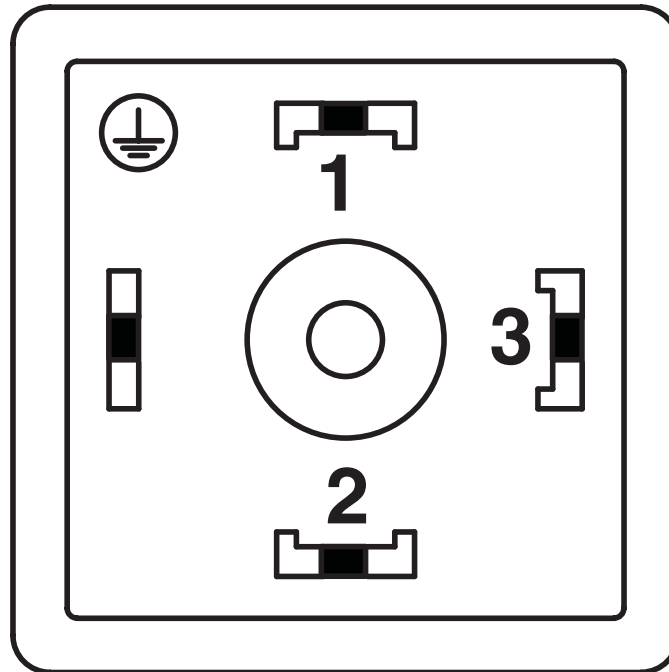
Pin assignment M12 male connector, 5-pos., A-coded, male side

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Schematic diagram



Valve plug connector pin assignment, type AD

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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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