Sensor/Actuator cable - SAC-5P-MS/ 0,3-PUR/AD-2L SCO - 1435030

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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: 0.3 m

Product Features

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

Key commercial data

package_quantity	1
GTIN	4046356413404

Technical data

Dimensions

Length of cable	0.3 m

Ambient conditions

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

General

Rated current at 40°C	4 A
Rated voltage	24 V
Number of positions	5
Contact resistance	≤ 5 mΩ
Insulation resistance	≥ 100 MΩ
Coding	A - standard
Standards/regulations	M12 connector IEC 61076-2-101
Status display	2 LEDs

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Technical data

General

Protective circuit/component	Unwired
Surge voltage category	II
Pollution degree	3
Insertion/withdrawal cycles	≥ 100 (M12 connector)
Torque	0.4 Nm (M12 connector)
Torque	0.6 Nm (Valve connector)

Material

Inflammability class 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)

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 mm²
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
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/s²
Outer sheath, material	PUR

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Technical data

Cable

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
Special properties	Silicone-free
Special properties	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
Other resistance	hydrolysis and microbe resistant
Other resistance	Largely oil-resistant
Other resistance	partly UV-resistant in accordance with DIN EN ISO 4892-2-A
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation)
Ambient temperature (operation)	-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	27061801

ETIM

ETIM 3.0	EC001855
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

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approvals

GOST /

Approval details

GOST

accessories

Mounting material

SAC-V-SCREW-M3-29 KNURL - 1403779



Screwdriver tools

SF-BIT-PH 1-70 - 1212582



TSD-M SAC-BIT ADAPTER - 1212600



SAC BIT M12-D15 - 1208432



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accessories

Protective cap

PROT-M12 FS-PA-CHAIN - 1430873



Safety locking

SAC-M12-EXCLIP-M - 1558988



Conductor marking

PABA WH/15 - 1013151



PABA YE/15 - 1013698



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accessories

PABA RD/15 - 1013944



Marker carrier cable

PATO 2/15 - 1013122



PATO 3/15 - 1013135



PATO 4/15 - 1013148



Marker pen

B-STIFT - 1051993



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accessories

Torque tool

TSD 04 SAC - 1208429

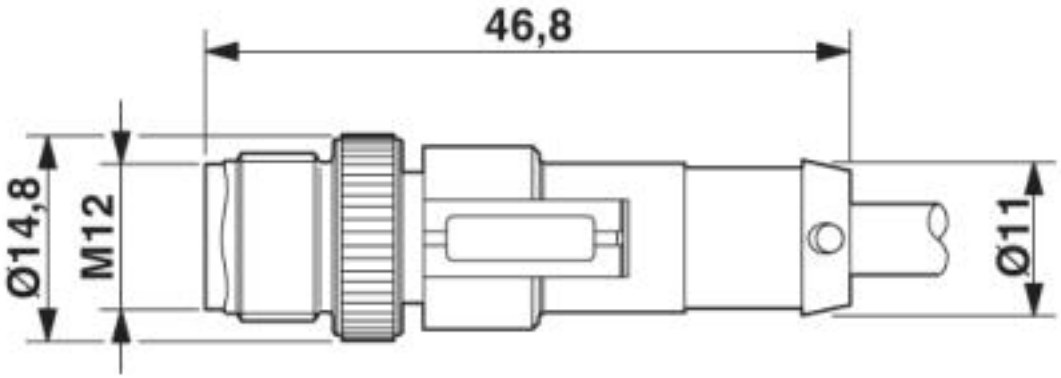


TSD-M 1,2NM - 1212224



Drawings

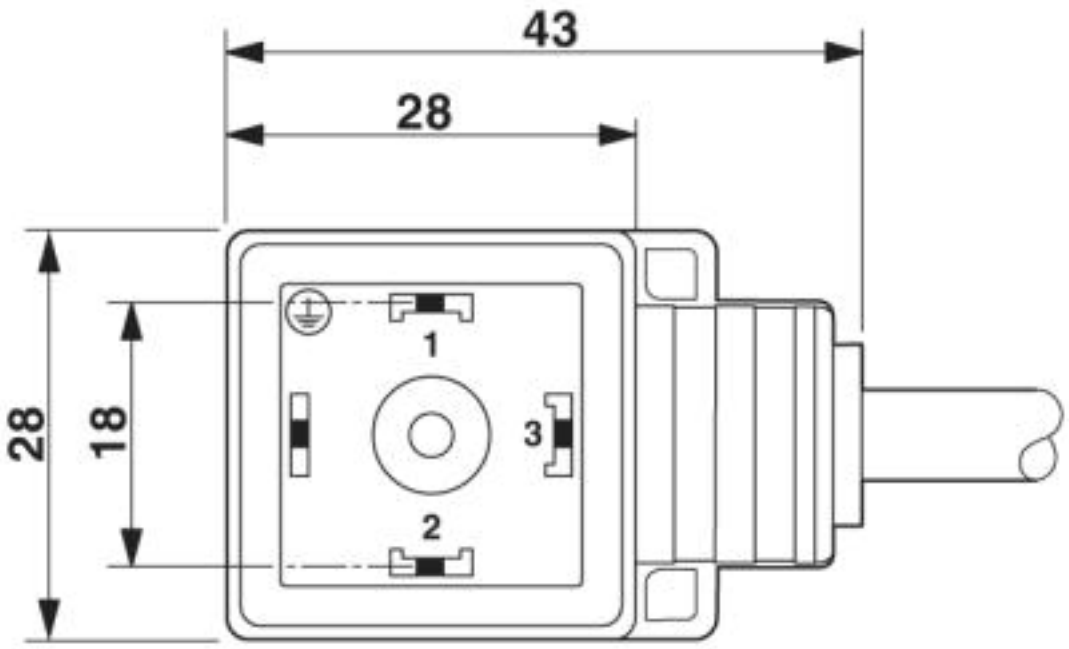
Dimensioned drawing



M12 SPEEDCON plug, straight

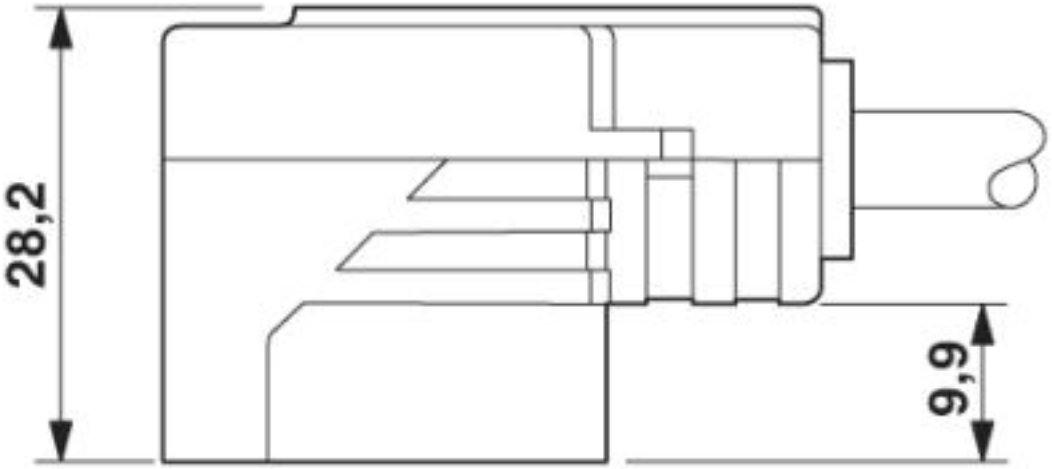
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Dimensioned drawing



Valve connector, type AD

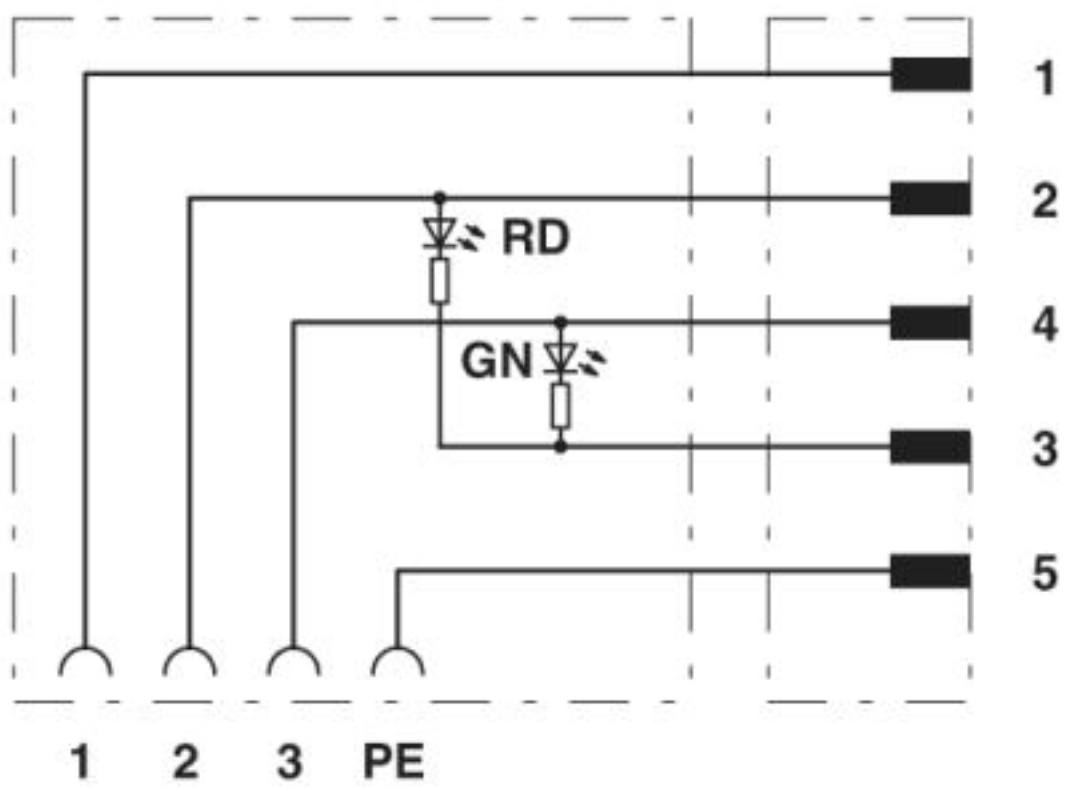
Dimensioned drawing



Valve connector, type AD, side view

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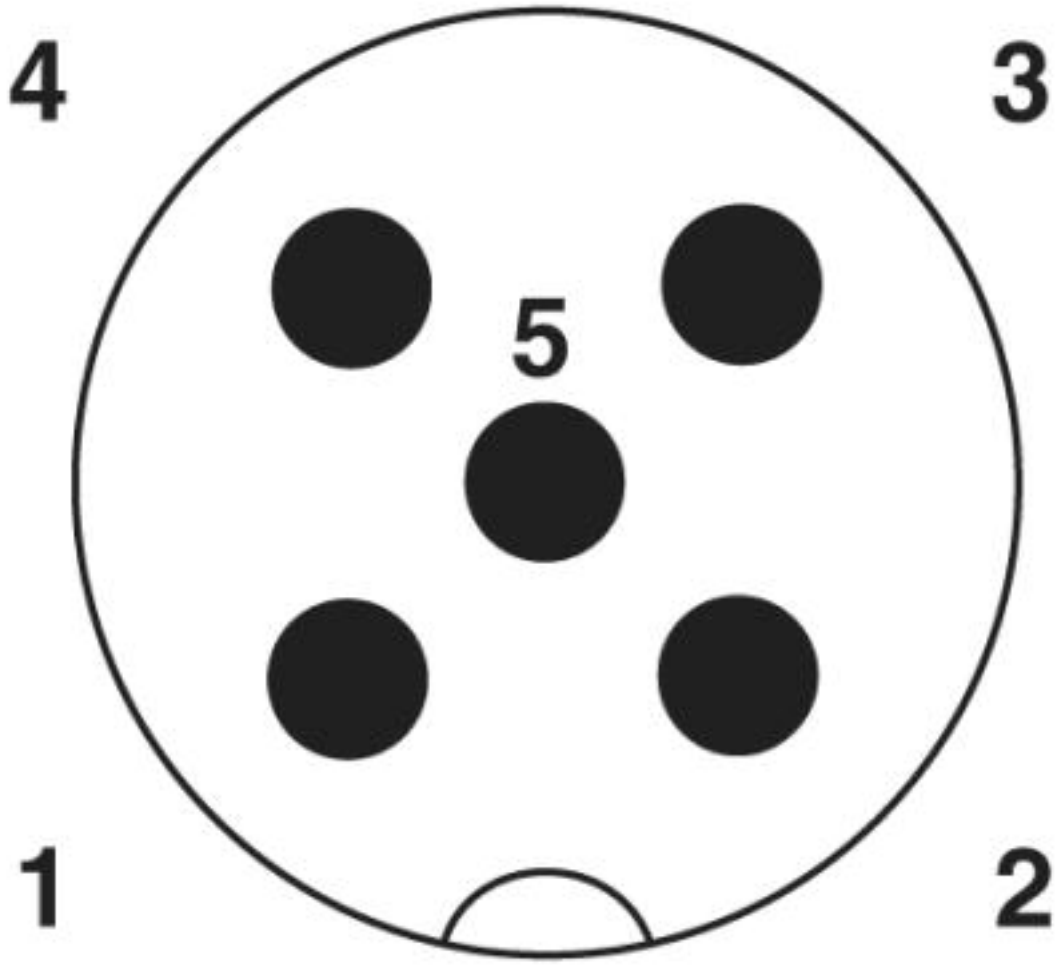
Circuit diagram



Contact assignment of M12 plug and valve connector

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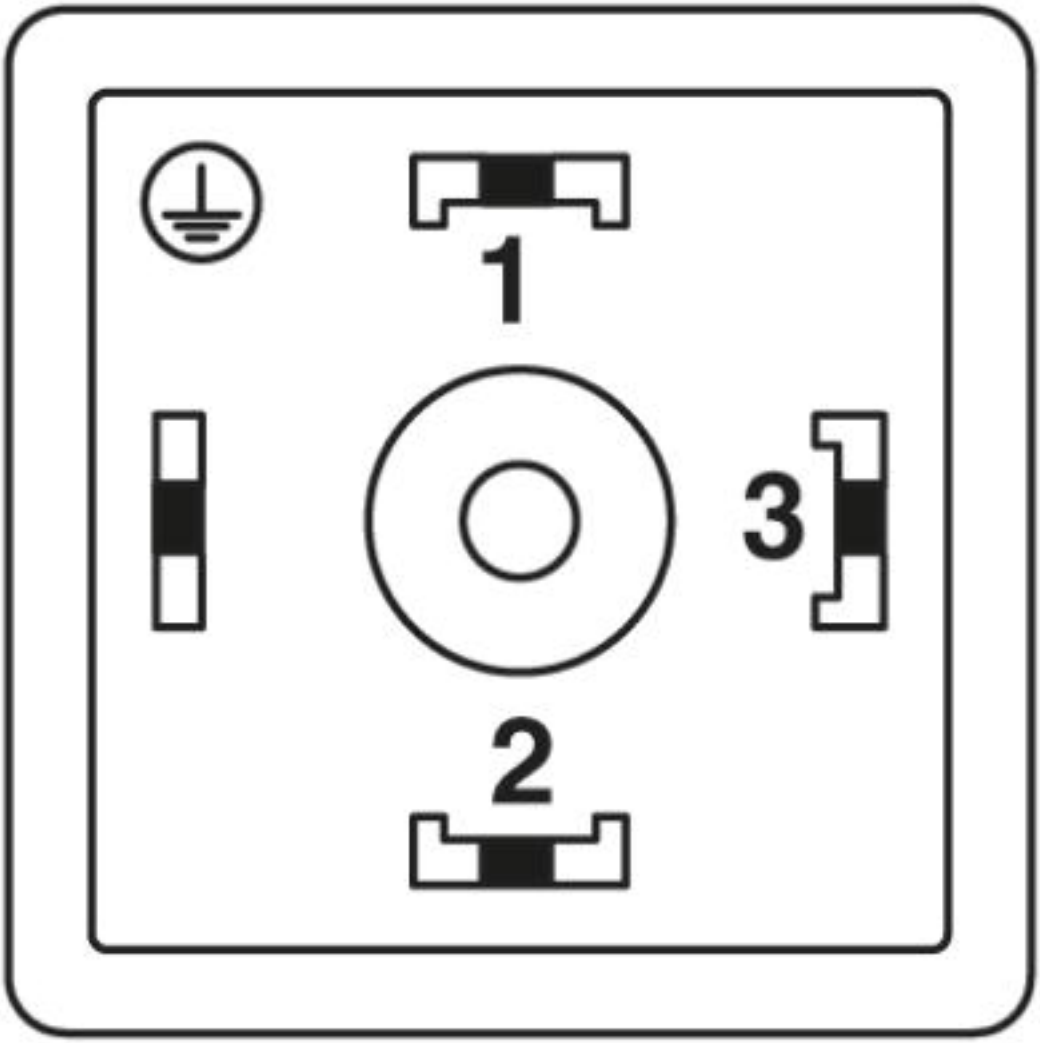
Schematic diagram



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

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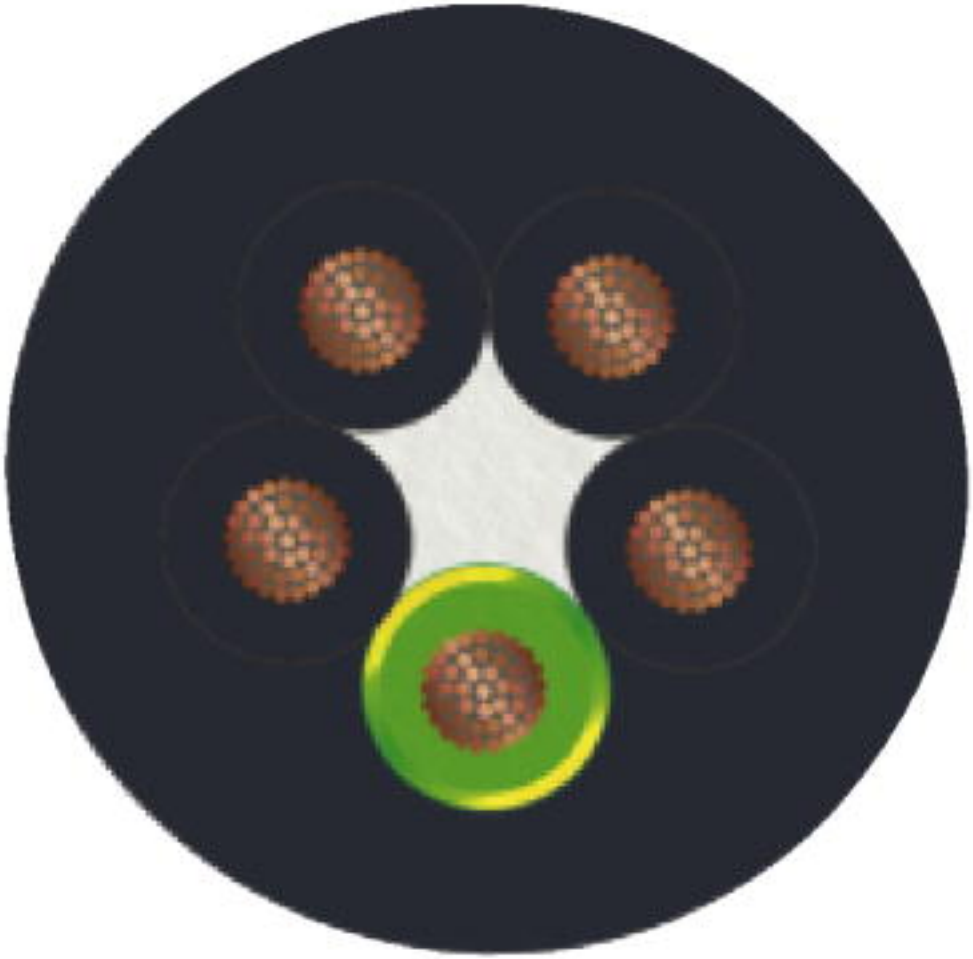
Schematic diagram



Valve plug connector pin assignment, type AD

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Cable cross section



PUR halogen-free black [PUR]

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