

# Sensor/Actuator cable - SAC-3P-M12MS/1,5-PUR/C-1L-Z - 1400786

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Sensor/Actuator cable, 3-position, PUR, Black RAL 9005, Plug straight M12, A-coded, on C valve plug (8 mm), with 1 LED, connected with Z diode, Cable length: 1.5 m

As illustrated, but without SPEEDCON

## Key commercial data

Packing unit	0
Minimum order quantity	1
GTIN	 4 046356 511599
Custom tariff number	85444290
Country of origin	POLAND

## Technical data

### General data

Rated current at 40°C	4 A
Rated voltage	24 V
Number of positions	3
Volume resistance	≤ 5 mΩ
Insulation resistance	≥ 100 MΩ
Length of cable	1.5 m
Ambient temperature (operation)	-25 °C ... 90 °C (Male connector / female connector)
Ambient temperature (operation)	-20 °C ... 85 °C (valve plug)

### General characteristics

Standards/regulations	M12 connector IEC 61076-2-101
Standards/regulations	Valve connector EN 175301-803
Coding	A - standard
Surge voltage category	III
Pollution degree	3
Degree of protection	IP65/67
Insertion/withdrawal cycles	≥ 100
Contact material	CuSn

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### General characteristics

Contact surface material	Ni/Au
Contact carrier material	TPU GF
Material of grip body	TPU
Contact material	CuSn
Contact surface material	Sn
Valve plug contact insert material	PA 66
Material housing valve plug	TPU
Material, knurls	Zinc die-cast, nickel-plated
Sealing material	TPU (Seal molded)
Status display	1 LED
Protective circuit/component	Z diode

### Conductor data

Cable type	PUR halogen-free black
Cable type (abbreviation)	PUR
Cable abbreviation	Li9Y11Y-HF
UL AWM Style	20549
Conductor cross section	3x 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)
External cable diameter	4.5 mm ± 0.2 mm
Wire colors	Black 1, black 2, green/yellow
External sheath, color	Black-gray RAL 7021
Insulation resistance	min. 20 MΩ*km
Conductor resistance	39 Ω/km (at 20 °C)
Nominal voltage, conductor	≤ 300 V
Test voltage, conductor	≥ 1200 V
Overall twist	3 wires, twisted
Outer sheath, material	PUR
Material conductor insulation	PP
Conductor material	Bare Cu litz wires
Smallest bending radius, fixed installation	22.5 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>
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation)
Ambient temperature (operation)	-20 °C ... 80 °C (cable, flexible installation)
Flame resistance	According to DIN VDE 0482
Flame resistance	According to DIN EN 50265-2-1

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### Conductor data

Halogen-free	in accordance with DIN VDE 0472 part 815
Other resistance	Largely oil-resistant
Other resistance	partly UV-resistant in accordance with DIN EN ISO 4892-2-A

## Classifications

### eclass

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

### etim

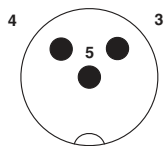
ETIM 3.0	EC001855
ETIM 4.0	EC001855

### unspsc

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

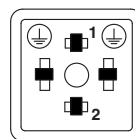
## Drawings

### Schematic diagram



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

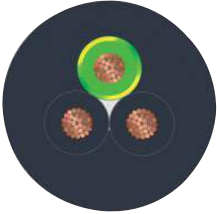
### Schematic diagram



Valve connector connector pin assignment, type C

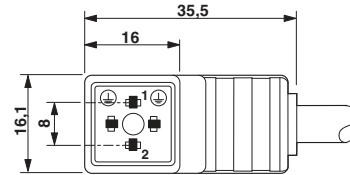
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Cable cross section



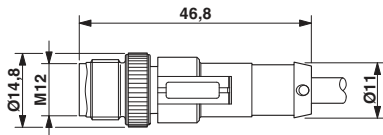
PUR halogen-free black [PUR]

Dimensioned drawing



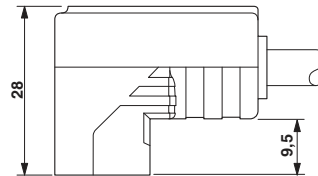
Valve connector, type C

Dimensioned drawing



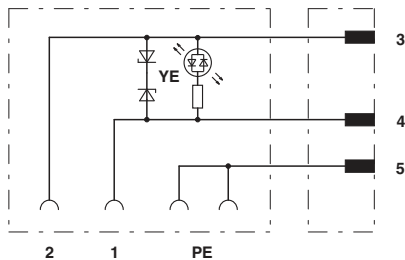
M12 x 1 male connector, straight

Dimensioned drawing



Valve connector, type C, side view

Circuit diagram



Contact assignment of M12 plug and valve connector