## SAC-3P-MR/ 3,0-PUR/C-1L-Z SCO - Sensor/actuator cable



1435519

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Sensor/actuator cable, 3-position, PUR halogen-free, black-gray RAL 7021, Plug angled M12 SPEEDCON, coding: A, with 1 LED, on Valve connector C (8 mm), with 1 LED, Wiring: Z diode, cable length: 3 m

## Your advantages

- · Easy and safe: 100 % electrically tested plug-in components
- · Save time, thanks to installation with SPEEDCON fast locking system
- · Convenient: increased machine availability thanks to quick and easy diagnostics
- Our standard: robust halogen-free PUR cable

## Commercial data

Item number	1435519
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF07
Product key	BF1DNA
Catalog page	Page 228 (C-2-2019)
GTIN	4046356413794
Weight per piece (including packing)	115.4 g
Weight per piece (excluding packing)	110.12 g
Customs tariff number	85444290
Country of origin	PL



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## Technical data

## **Product properties**

Product type	Sensor/actuator cable with valve connector
Application	Standard
Number of positions	3
No. of cable outlets	1
Shielded	no
Coding	A
Insulation characteristics	
Overvoltage category	Ш
Degree of pollution	3

#### Material specifications

Flammability rating according to UL 94	HB
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 6.6
Contact surface material	Sn
Material for screw connection	Zinc die-cast, nickel-plated

#### **Electrical properties**

Insulation resistance	≥ 100 MΩ
Nominal voltage U <sub>N</sub>	24 V AC
	24 V DC
Nominal current I <sub>N</sub>	4 A
Valve connector characteristics	
Fixing screws	M2,5 x 27,5
Fixing screws Pulse power	M2,5 x 27,5 40 W (at 100 μs square-wave pulse)
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#### Mechanical properties

Mechanical data	
Insertion/withdrawal cycles	≥ 100 (M12 connector)

Signaling



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Status display	1 LED
Status display present	Yes

## Connector

Connection 1	
Туре	Plug angled M12 SPEEDCON
Number of positions	3
Locking type	SPEEDCON
Coding type	A
Connection 2	
Туре	Valve connector C (8 mm)
Number of positions	3
Material	CuSn (Contact)
	Sn (Contact surface)
	PA 6.6 (Contact carriers)
	TPU (Housing)

#### Cable/line

Cable length	3 m
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#### PUR halogen-free black [PUR]

Dimensional drawing
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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 mm²
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



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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
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
Max. bending cycles	15000000
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 plug)
	-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	
Valve connector Standard designation	Valve connector

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