SAC-3P-MS/ 0,3-PUR/CI-1L-Z SCO - Sensor/actuator cable



1435580

https://www.phoenixcontact.com/us/products/1435580

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Sensor/actuator cable, 3-position, PUR halogen-free, black-gray RAL 7021, Plug straight M12 SPEEDCON, coding: A, on Valve connector CI (9.4 mm), with 1 LED, Wiring: Z diode, cable length: 0.3 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	1435580
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF07
Product key	BF1DOA
Catalog page	Page 228 (C-2-2019)
GTIN	4046356413848
Weight per piece (including packing)	33.7 g
Weight per piece (excluding packing)	33 g
Customs tariff number	85444290
Country of origin	PL



1435580

cable

https://www.phoenixcontact.com/us/products/1435580

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 _N	24 V AC
	24 V DC
Nominal current I _N	4 A
Valve connector characteristics Fixing screws	M3 x 29
	M3 x 29 40 W (at 100 µs square-wave pulse)
Fixing screws	

Mechanical properties

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

Signaling



1435580

https://www.phoenixcontact.com/us/products/1435580

Status display	1 LED
Status display present	Yes

Connector

Connection 1	
Туре	Plug straight M12 SPEEDCON
Locking type	SPEEDCON
Coding type	A
Connection 2	
Туре	Valve connector CI (9.4 mm)
Material	CuSn (Contact)
	Sn (Contact surface)
	PA 6.6 (Contact carriers)
	TPU (Housing)

Cable/line

Cable length	0.3 m
--------------	-------

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 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
Single wire, color	black 1, black 2, green/yellow
Overall twist	3 wires, twisted



1435580

https://www.phoenixcontact.com/us/products/1435580

Man and star and star	
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	1500000
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

Phoenix Contact 2024 © - all rights reserved https://www.phoenixcontact.com

Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com