SAC-3P-M12MS/ 0,6-PUR/M12FS SH -Sensor/actuator cable



1500813

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Sensor/actuator cable, 3-position, PUR halogen-free, black-gray RAL 7021, shielded (Braided copper wires), Advanced Shielding Technology, Plug straight M12, coding: A, on Socket straight M12, coding: A, cable length: 0.6 m

Your advantages

- · Easy and safe: 100 % electrically tested plug-in components
- · Reliable signal transmission 360° shielding in environments with electromagnetic interference

Commercial data

Item number	1500813
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF03
Product key	BF1CIA
Catalog page	Page 193 (C-2-2019)
GTIN	4017918612214
Weight per piece (including packing)	50.1 g
Weight per piece (excluding packing)	46.7 g
Customs tariff number	85444290
Country of origin	PL

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Technical data

Product properties

Product type	Sensor/actuator cable
Application	Standard
Number of positions	3
No. of cable outlets	1
Shielded	yes
Coding	A
Insulation characteristics	
Overvoltage category	11
Degree of pollution	3

Material specifications

Flammability rating according to UL 94	HB
Seal material	NBR
Material of grip body	TPU, hardly inflammable, self-extinguishing
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	TPU GF
Material for screw connection	Zinc die-cast, nickel-plated

Electrical properties

Insulation resistance	≥ 100 MΩ
Nominal voltage U _N	48 V AC
	60 V DC
Nominal current I _N	4 A

Mechanical properties

,	Mechanical data	
	Insertion/withdrawal cycles	≥ 100
Sig	gnaling	
	Status display	No
	Status display present	No
	onnection data	
(Conductor connection	
	Tightening torque	0.4 Nm (M12 connector)

Connector

Connection 1



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Туре	Plug straight M12
Number of positions	3
Coding type	Α
onnection 2	
Туре	Socket straight M12
Number of positions	3
Coding type	A
ble/line	
Cable length	0.6 m
UR halogen-free black [PUR]	
Cable weight	31 kg/km
UL AWM Style	20549
Number of positions	3
Shielded	yes
Cable type	PUR halogen-free black [PUR]
Conductor structure signal line	42x 0.10 mm
AWG signal line	22
Conductor cross section	3x 0.34 mm ² (Signal line)
Wire diameter incl. insulation	1.27 mm ±0.02 mm (Signal line)
External cable diameter	4.65 mm ±0.15 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	brown, blue, black
Thickness, insulation	≥ 0.21 mm (Core insulation)
	approx. 0.50 mm (Outer cable sheath)
Overall twist	3 wires, twisted
Optical shield covering	80 %
Max. conductor resistance	max. 58 Ω/km (at 20 °C)
Insulation resistance	≥ 100 GΩ*km (at 20 °C)
Nominal voltage, cable	≤ 300 V
Test voltage	≥ 3000 V
Smallest bending radius, fixed installation	23 mm
Smallest bending radius, movable installation	47 mm
Max. bending cycles	1000000
Halogen-free	in accordance with DIN VDE 0472 part 815
Flame resistance	in accordance with UL 758/1581 FT2
	DIN EN 60332-2-2 (20 s)
Resistance to oil	in accordance with DIN EN 60811-2-1
Other resistance	Highly resistant to acids, alkaline solutions and solvents
	hydrolysis and microbe resistant



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	partly UV-resistant (in accordance with DIN EN ISO 4892-2-A)
Special properties	Flexible cable conduit capable
	Silicone-free
	Free of substances which would hinder coating with paint or varnish
Ambient temperature (operation)	-40 °C 80 °C (cable, fixed installation)
	-25 °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)
	-25 °C 80 °C (cable, fixed installation)
	-5 °C 80 °C (Cable, flexible installation)

Standards and regulations

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

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