

1668959

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Sensor/actuator cable, 3-position, PUR halogen-free, black-gray RAL 7021, Plug straight M12, coding: A, on Socket straight M12, coding: A, PIN 2+4 bridged and Socket straight M12, coding: A, PIN 2+4 bridged, cable length: 0.3 m

Commercial data

Item number	1668959
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF03
Product key	BF1COA
Catalog page	Page 250 (C-2-2019)
GTIN	4017918135782
Weight per piece (including packing)	48.5 g
Weight per piece (excluding packing)	48 g
Customs tariff number	85444290
Country of origin	PL



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Technical data

Product properties

Product type	Distributor with cable
Number of positions	3
Application	Standard
No. of cable outlets	2
Shielded	no
Coding	A
Insulation characteristics	
Overvoltage category	II
	3

Connection data

Material specifications

Flammability rating according to UL 94	НВ
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

Contact resistance	≤ 5 mΩ
Insulation resistance	≥ 100 MΩ
Nominal voltage U _N	250 V AC
	250 V DC
Nominal current I _N	4 A

Mechanical properties

Mechanical data

Signaling

Status display	No
Status display present	No

Connector

Connection 1



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Connection 2 Type Socket straight M12 Coding type A Connection 3 Type Socket straight M12 Coding type A Cable (Pine Cable length V 0.3 m PUR halogen-free black (PUR) Dimensional drawing Cable weight 23 kg/km UL AWM Style 20549 Number of positions 3 Shielded no Cable type PUR halogen-free black (PUR) Cable type PUR halogen-free black (PUR) Cable type 2549 Number of positions 3 Shielded no Cable type PUR halogen-free black (PUR) Cable type PUR halogen-free black (PUR) Cable type Sylve S	Type	Plug straight M12
Type		
Type	Coding type	A
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Connection 3 Type Socket straight M12 Coding type A Cable length 0.3 m PUR halogen-free black [PUR] Dimensional drawing Cable weight 23 kg/km UL AWM Style 20549 Number of positions 3 Shelded no 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 mm² (Signal line) Wire diameter incl. insulation 1.27 mm ±0.02 mm (Signal line) Wire diameter incl. insulation 1.27 mm ±0.02 mm (Signal line) External sabet diameter 3.85 mm ±0.15 mm Outer sheath, material Pulker External sheath, color black-gray RAL 7021 Conductor material Bare Cu litz wires Bare Cu litz wires Bare Cu litz wires Material wire insulation PP Single wire, color brown, blue, black Thickness, insulation 2 0.21 mm (Core insulation) approx. 0.50 mm (Outer cable sheath)	Туре	Socket straight M12
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Insulation resistance ≥ 100 GΩ*km (at 20 °C) Nominal voltage, cable ≤ 300 V		
Nominal voltage, cable ≤ 300 V		
1 €31 VUITAYE ≤ 3000 V	Test voltage	≥ 3000 V



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Smallest bending radius, fixed installation	19 mm
Smallest bending radius, movable installation	38 mm
Max. bending cycles	10000000
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
	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

, and one contains	
Degree of protection	IP65
	IP67
	IP68
Ambient temperature (operation)	-25 °C 90 °C (Plug / socket)
	-40 °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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