

1417888

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Sensor/actuator cable, 3-position, PVC, yellow, shielded (Tinned copper braided shield), Plug straight M12, coding: A, on Socket straight M12, coding: A, cable length: 15 m

Commercial data

Item number	1417888
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	BF13
Product key	BF1IDA
GTIN	4055626210995
Weight per piece (including packing)	22.22 g
Weight per piece (excluding packing)	22.22 g
Customs tariff number	85444290
Country of origin	US



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Technical data

Product properties

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

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
Outer sheath, material	PVC

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

Signaling

Status display	No
Status display present	No

Connection data

Conductor connection	
Tightening torque	0.4 Nm (M12 connector)

Connector



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Connection 1

Туре	Plug straight M12
Number of positions	3
Coding type	A

Connection 2

Туре	Socket straight M12
Number of positions	3
Coding type	A

Cable/line

Cable length	15 m

PVC yellow 105 °C [542]

Dimensional drawing



Cable weight 40 kg/km UL AWM Style 2517 (105 °C / 300 V) Number of positions 3 Shielded yes Cable type PVC yellow 105 °C [542] Conductor structure signal line 30x 1.30 mm AWG signal line 22 Wire diameter incl. insulation 1.27 mm ±0.03 mm External cable diameter 5.20 mm ±0.2 mm Outer sheath, material PVC External sheath, color yellow Conductor material Tin-plated Cu litz wires Material wire insulation PVC Single wire, color brown, blue, black Overall twist 3 wires, twisted Optical shield covering 85 % Max. conductor resistance max. 50.5 Ω/km (20 °C) Insulation resistance ≥ (550 M Ohms/m @ 500V) Nominal voltage, cable 300 V Minimum bending radius, flexible installation 12 x D Smallest bending radius, movable installation 63 mm Flame resistance FT4		
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Shielded yes Cable type PVC yellow 105 °C [542] Conductor structure signal line 30x 1.30 mm AWG signal line 22 Wire diameter incl. insulation 1.27 mm ±0.03 mm External cable diameter 5.20 mm ±0.2 mm Outer sheath, material PVC External sheath, color yellow Conductor material Tin-plated Cu litz wires Material wire insulation PVC Single wire, color brown, blue, black Overall twist 3 wires, twisted Optical shield covering 85 % Max. conductor resistance ≈ 50.5 Ω/km (20 °C) Insulation resistance ≥ (550 M Ohms/m @ 500V) Nominal voltage, cable 300 V Minimum bending radius, flexible installation 12 x D Smallest bending radius, movable installation 63 mm	UL AWM Style	2517 (105 °C / 300 V)
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Minimum bending radius, flexible installation 12 x D Smallest bending radius, movable installation 63 mm	Insulation resistance	≥ (550 M Ohms/m @ 500V)
Smallest bending radius, movable installation 63 mm	Nominal voltage, cable	300 V
•	Minimum bending radius, flexible installation	12 x D
Flame resistance FT4	Smallest bending radius, movable installation	63 mm
	Flame resistance	FT4



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Other resistance	UV resistant
Special properties	UL standards PLTC and ITC
Ambient temperature (operation)	-30 °C 105 °C (cable, fixed installation)
	-5 °C 105 °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)

Standards and regulations

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

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