

1406104

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Sensor/actuator cable, 8-position, PVC, yellow, free cable end, on Socket straight M12, coding: A, cable length: 5 m $\,$

Commercial data

Item number	1406104
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF13
Product key	BF1ICD
GTIN	4046356799454
Weight per piece (including packing)	243 g
Weight per piece (excluding packing)	230 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	8	
No. of cable outlets	1	
Shielded	no	
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	CuZn
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	30 V AC
	30 V DC
Nominal current I _N	2 A

Mechanical properties

I	Mechanical data		
	Insertion/withdrawal cycles	≥ 100	
Się	gnaling		
	Status display	No	
	Status display present	No	
Connection data			
	Conductor connection		

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	Tightening torque	0.4 Nm (M12 connector)		

Connector



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Туре	free cable end
onnection 2	
Type	Socket straight M12
Number of positions	8
Coding type	A
ble/line	
Cable length	5 m
VC yellow 105 °C [542]	
Dimensional drawing	
Cable weight	44 kg/km
UL AWM Style	2517 (105 °C / 300 V)
Number of positions	8
Shielded	no
Cable type	PVC yellow 105 °C [542]
Conductor structure signal line	32x 1.10 mm
AWG signal line	24
Wire diameter incl. insulation	1.12 mm ±0.03 mm
External cable diameter	5.70 mm ±0.2 mm
Outer sheath, material	PVC
External sheath, color	yellow
Conductor material	Tin-plated Cu litz wires
Material, filler	PP
Material wire insulation	PVC
Single wire, color	white, brown, green, yellow, gray, pink, blue, red
Overall twist	8 wires around filler to the core
Max. conductor resistance	max. 79.7 Ω/km (20 °C)
Insulation resistance	≥ (550 M Ohms/m @ 500V)
Nominal voltage, cable	300 V
Minimum bending radius, flexible installation	8 x D
Smallest bending radius, movable installation	46 mm
Flame resistance	FT1, VW-1
Other resistance	UV resistant
Ambient temperature (operation)	-30 °C 105 °C (cable, fixed installation)



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-5 °C ... 105 °C (Cable, flexible installation)

Environmental and real-life conditions

Ambient conditions		
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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Drawings



Dimensional drawing



M12 x 1 socket, straight

Circuit diagram



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Pin assignment M12 socket, 8-pos., A-coded, view female side



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30 V

Approvals

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	UL Listed Approval ID: FILE E 221474				
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
		30 V	2 A	-	-
•	CUL Listed Approval ID: FILE E 221474				
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²

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2 A

cULus Listed



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Classifications

ECLASS

ECLASS-12.0 27060311	
ECLASS-13.0 27060311	

ETIM

	ETIM 9.0	EC001855
UN	NSPSC	
	UNSPSC 21.0	26121600

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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
China RoHS	
Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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