

1251903

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Sensor/actuator cable, 12-position, PUR/PVC, black RAL 9005, shielded (Tinned copper braided shield), free cable end, on Socket straight M12 SPEEDCON, coding: A, cable length: 5 m, Customer version

Your advantages

- Easy and safe: 100 % electrically tested plug-in components
- · Save time, thanks to installation with SPEEDCON fast locking system
- Save space with high-pos. connectors
- Reliable signal transmission 360° shielding in environments with electromagnetic interference

Commercial data

Item number	1251903
Packing unit	1 pc
Minimum order quantity	100 pc
Note	Made to order (non-returnable)
Product key	BF1CNA
GTIN	4063151358990
Weight per piece (including packing)	474.5 g
Weight per piece (excluding packing)	474.5 g
Country of origin	DE



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Technical data

Product properties

Product type	Sensor/actuator cable
Number of positions	12
Application	Standard
No. of cable outlets	1
Coding	A
Insulation characteristics	
Overvoltage category	II
Degree of pollution	3

Material specifications

Flammability rating according to UL 94	V0
Seal material	NBR
Material of grip body	TPU, hardly inflammable, self-extinguishing
Contact material	CuZn
Contact surface material	Ni/Au
Contact carrier material	PA 6.6
Material for screw connection	Zinc die-cast, nickel-plated

Electrical properties

Insulation resistance	≥ 100 MΩ
Nominal voltage U _N	30 V AC
	30 V DC
Nominal current I _N	1.5 A
Protective circuit	unwired

Signaling

Status display	No
Status display present	No

Connector

Connection 1

Туре	free cable end
Connection 2	
Туре	Socket straight M12 SPEEDCON
Number of positions	12
Locking type	SPEEDCON
Coding type	A

Cable/line



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Cable length	5 m
ack PUR/PVC twisted pair [35T]	
Dimensional drawing	
Cable weight	87 kg/km
UL AWM Style	20233 / 1061 (80°C/300 V)
Number of positions	12
Shielded	yes
Cable type	Black PUR/PVC twisted pair [35T]
Conductor structure signal line	18x 0.10 mm
AWG signal line	26
Conductor cross section	12x 0.14 mm² (Signal line)
Wire diameter incl. insulation	1 mm ±0.05 mm (Signal line)
External cable diameter	8.50 mm ±0.2 mm
Outer sheath, material	PUR
External sheath, color	black RAL 9005
Conductor material	Tin-plated Cu litz wires
Material wire insulation	PVC
Single wire, color	white-brown, green-yellow, gray-pink, blue-red, black-violet, gray/pink-red/blue
Twisted pairs	2 cores to the pair
Overall twist	Six pairs around the filler to the core
Optical shield covering	85 %
Max. conductor resistance	≤ 142 Ω/km (at 20 °C)
Insulation resistance	≥ 10 MΩ*km (at 20 °C)
Nominal voltage, cable	42 V AC
Test voltage	1500 V AC
Minimum bending radius, fixed installation	5 x D
Minimum bending radius, flexible installation	10 x D
Smallest bending radius, fixed installation	43 mm
Smallest bending radius, movable installation	85 mm
Max. bending cycles	2000000
Flame resistance	According to DIN EN 60332-1-2 According to VW-1
Resistance to oil	in accordance with DIN FN 60811-2-1
Resistance to oil Other resistance	in accordance with DIN EN 60811-2-1 hydrolysis and microbe resistant (in accordance with EN 50396)



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Ambient temperature (operation)	-40 °C 80 °C (cable, fixed installation)
	-5 °C 80 °C (Cable, flexible installation)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65
	IP67
Ambient temperature (operation)	-25 °C 85 °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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Classifications

UNSPSC 21.0

ECLASS

ECLASS-11.0	27060311
ECLASS-12.0	27060311
ECLASS-13.0	27060311
ETIM	
ETIM 9.0	EC001855
UNSPSC	

26121600



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Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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