

1442382

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Sensor/actuator cable, 4-position, PUR halogen-free, black-gray RAL 7021, Plug straight M12, coding: A, on free cable end, cable length: 10 m, with plastic knurl

Your advantages

- · Easy and safe: 100 % electrically tested plug-in components
- · Save weight our connectors with light plastic knurl

Commercial data

Item number	1442382
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF03
Product key	BF1CCA
Catalog page	Page 132 (PC-2011)
GTIN	4046356534963
Weight per piece (including packing)	263.3 g
Weight per piece (excluding packing)	253 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	4			
No. of cable outlets	1			
Shielded	no			
Coding	A			
Insulation characteristics				
Overvoltage category	Ш			
Degree of pollution	3			

Material specifications

Flammability rating according to UL 94	НВ
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	PA

Electrical properties

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

Mechanical properties

Туре

Insertion/withdrawal cycles	≥ 100
Signaling	
Status display	no
Status display present	No
Connection data Conductor connection	
	0.4 Nm (M12 connector)
Conductor connection	0.4 Nm (M12 connector)

Plug straight M12



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Number of positions	4 A
Coding type	A
Connection 2	
Туре	free cable end
Cable/line	
Cable length	10 m
PUR halogen-free black [PUR]	
Dimensional drawing	
Cable weight	30 kg/km
UL AWM Style	20549 / 10493 (80°C/300 V)
Number of positions	4
Shielded	no
Cable type	PUR halogen-free black [PUR]
Conductor structure signal line	42x 0.10 mm
AWG signal line	22
Conductor cross section	4x 0.34 mm² (Signal line)
Wire diameter incl. insulation	1.27 mm ±0.02 mm
External cable diameter	4.20 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, white, blue, black
Thickness, insulation	≥ 0.21 mm
Thickness, outer sheath	approx. 0.50 mm
Overall twist	4 wires, twisted
Max. conductor resistance	≤ 58 Ω/km
Insulation resistance	≥ 1 GΩ*km
Nominal voltage, cable	≤ 300 V
Test voltage	≥ 3000 V
Minimum bending radius, fixed installation	5 x D
Minimum bending radius, flexible installation	10 x D
Smallest bending radius, fixed installation	21 mm
Smallest bending radius, movable installation	42 mm
Dynamic load capacity (bending)	Max. bending cycles: 10000000, Bending radius: 10 x D,



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	Traversing path: 10 m, Traversing rate: 3 m/s, Acceleration: 10 m/s²
Halogen-free	in accordance with DIN VDE 0472 part 815
	in accordance with DIN EN 50267-2-1
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)
	Low adhesion
	abrasion-resistant
Special properties	Flexible cable conduit capable
	Silicone-free
	Free of substances which would hinder coating with paint or varnish
	flexible
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
	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

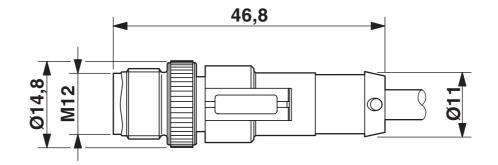


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Drawings

Dimensional drawing



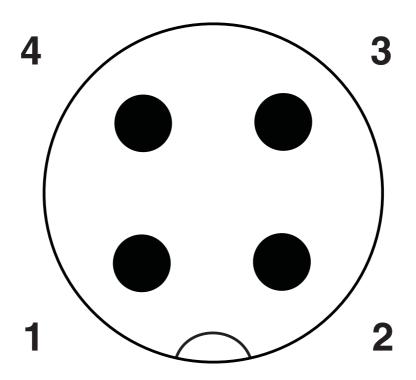
Plug, M12 x 1, straight, shielded



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Schematic diagram



Pin assignment M12 plug, 4-pos., A-coded, view plug side

Circuit diagram





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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
		300 V	4 A	-	-
B	CUL Listed Approval ID: FILE E 221474	l			
		<u>.</u>			
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
			Nominal current I _N 4 A	Cross section AWG	Cross section mm ²
		Nominal voltage U _N			

cULus Listed



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Classifications

ECLASS

ECLASS-11.0	27060311
ECLASS-12.0	27060311
ECLASS-13.0	27060311

ETIM

	ETIM 9.0	EC001855
UN	ISPSC	
	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-E
	No hazardous substances above the limits
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%
EF3.0 Climate Change	
CO2e kg	5.117 kg CO2e

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