



Automatización Eléctrica

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Sensor/Actuator cable, 5-position, PUR halogen-free, black-gray RAL 7021, Plug angled M12, A-coded, on free cable end, Cable length: 3 m, with plastic knurl

Why buy this product

- Easy and safe: 100% electrically tested plug-in components
- Our standard: robust halogen-free PUR cable
- Save weight our connectors with light plastic knurl

Key Commercial Data

Packing unit	1 STK		
GTIN	4 046356 535403		

Technical data

Dimensions

Length of cable	3 m
Stripping length of the free conductor end	50 mm

Ambient conditions

Ambient temperature (operation)	-25 °C 90 °C (Plug / socket)	
Degree of protection	IP65	
	IP67	
	IP68	

General

Rated current at 40°C	4 A	
Rated voltage	60 V	
Number of positions	5	
Insulation resistance	\geq 100 M Ω	
Coding	A - standard	
Standards/regulations	M12 connector IEC 61076-2-101	
Status display	No	
Protective circuit/component	Unwired	
Overvoltage category	Ш	



Technical data

General

Degree of pollution	3		
Insertion/withdrawal cycles	≥ 100		
Torque	0.4 Nm (M12 connector)		
Material			
Flammability rating according to UL 94	НВ		
Contact material	CuSn		
Contact surface material	Ni/Au		
Contact carrier material	TPU GF		
Material of grip body	TPU, hardly inflammable, self-extinguishing		
Material, knurls	Polyamide		
Standards and Regulations			
Standard designation	M12 connector		
Standards/regulations	IEC 61076-2-101		
Flammability rating according to UL 94	НВ		
Cable			
Cable type	PUR halogen-free black		
Cable type (abbreviation)	PUR		
Cable abbreviation	Li9Y11Y		
UL AWM style	20549 / 10493 (80°C/300 V)		
Conductor cross section	5x 0.34 mm² (Signal line)		
AWG signal line	22		
Conductor structure signal line	42x 0.10 mm		
Core diameter including insulation	1.27 mm ±0.02 mm (Signal line)		
Thickness, insulation	≥ 0.21 mm		
Wire colors	brown, white, blue, black, green-yellow		
Overall twist	5 wires around filler to the core		
External sheath, color	black-gray RAL 7021		
Outer sheath thickness	approx. 0.7 mm		
External cable diameter D	5 mm ±0.15 mm		
Smallest bending radius, fixed installation	25 mm		
Smallest bending radius, movable installation	50 mm		
Number of bending cycles	400000		
Bending radius	50 mm		
Traversing path	10 m		
Traversing rate	3 m/s		
Acceleration	10 m/s ²		
Cable weight	35 kg/km		
Outer sheath, material	PUR		
Material conductor insulation	PP		



Technical data

Cable

Conductor material	Bare Cu litz wires		
Insulation resistance	\geq 16 GΩ*km (at 20 °C)		
Conductor resistance	max. 58 Ω/km (at 20 °C)		
Nominal voltage, cable	300 ∨		
Test voltage, cable	3000 V		
Special properties	Flexible cable conduit capable		
	Silicone-free		
	Free of substances which would hinder coating with paint or varnish		
	Flexible		
Flame resistance	in accordance with DIN UL-Style 20549		
Halogen-free	in accordance with DIN VDE 0472 part 815		
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		
	Resistant to salt water		
	partly UV-resistant in accordance with DIN EN ISO 4892-2-A		
Ambient temperature (operation)	-40 °C 80 °C (cable, fixed installation)		
	-25 °C 80 °C (cable, flexible installation)		

Classifications

eCl@ss

eCl@ss 4.0	27060306
eCl@ss 4.1	27060306
eCl@ss 5.0	27061801
eCl@ss 5.1	27061801
eCl@ss 6.0	27279218
eCl@ss 7.0	27279218
eCl@ss 8.0	27279218

ETIM

ETIM 2.0	EC000830
ETIM 3.0	EC001855
ETIM 4.0	EC001855
ETIM 5.0	EC001855

UNSPSC

UNSPSC 6.01	31251501
UNSPSC 7.0901	31251501
UNSPSC 11	31251501
UNSPSC 12.01	31251501



Classifications UNSPSC UNSPSC 13.2 Approvals Approvals EAC Ex Approvals Approvals Ex Approvals Ex Approvals Ex C Drawings

Schematic diagram



Dimensional drawing

34,5

011

Pin assignment M12 male connector, 5-pos., A-coded, male side

Ø14,8

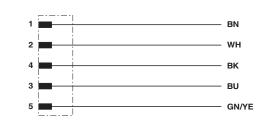
M12

30,2

Cable cross section



PUR halogen-free black [PUR]



Contact assignment of the M12 plug

Circuit diagram





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Product	Code	Reference	Product link
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