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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

Why buy this product

☑ Easy and safe: 100% electrically tested plug-in components



Key Commercial Data

Packing unit	1 STK
GTIN	4 017918 134709
GTIN	4017918134709
Weight per Piece (excluding packing)	115.000 g
Custom tariff number	85444290
Country of origin	United States

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



Technical data

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	II
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	Zinc die-cast, nickel-plated
Sealing material	NBR

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



Technical data

Cable

External sheath, color Outer sheath thickness External cable diameter D Smallest bending radius, fixed installation Smallest bending radius, movable installation Number of bending cycles Bending radius	black-gray RAL 7021 approx. 0.7 mm 5 mm ±0.15 mm 25 mm 4000000 50 mm
External cable diameter D Smallest bending radius, fixed installation Smallest bending radius, movable installation Number of bending cycles	5 mm ±0.15 mm 25 mm 50 mm 4000000
Smallest bending radius, fixed installation Smallest bending radius, movable installation Number of bending cycles	25 mm 50 mm 4000000
Smallest bending radius, movable installation Number of bending cycles	50 mm 4000000
Number of bending cycles	4000000
Bending radius	50 mm
<u> </u>	33 11111
Traversing path	10 m
Traversing rate	3 m/s
Acceleration	10 m/s²
Cable weight	35 kg/km
Outer sheath, material	PUR
Material conductor insulation	PP
Conductor material	Bare Cu litz wires
nsulation resistance	≥ 16 GΩ*km (at 20 °C)
Conductor resistance	max. 58 Ω/km (at 20 °C)
Nominal voltage, cable	300 V
Fest 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)

Environmental Product Compliance

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

Drawings

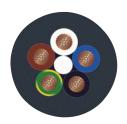


Schematic diagram



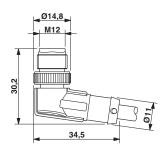
Pin assignment M12 male connector, 5-pos., A-coded, male side

Cable cross section

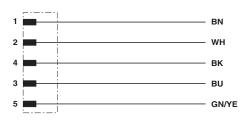


PUR halogen-free black [PUR]

Dimensional drawing



Circuit diagram



Contact assignment of the M12 plug

M12 x 1 male plug, angled

Approvals

Approvals

Approvals

UL Listed / cUL Listed / EAC / cULus Listed

Ex Approvals

Approval details

UL Listed	LISTED	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm		FILE E 221474
Nominal current IN			4 A	
Nominal voltage UN			125 V	



Approvals

cUL Listed	C UL	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 221474
Nominal current IN		4 A	
Nominal voltage UN		125 V	
EAC	ERC		EAC-Zulassung
	EUL		
cULus Listed	C UL US		

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