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Sensor/actuator cable, 3-position, PUR halogen-free, black-gray RAL 7021, Plug straight M8, on free cable end, cable length: 3 m

### Why buy this product



## **Key Commercial Data**

Packing unit	1 pc
GTIN	4 017918 158330
GTIN	4017918158330
Sales Key	02

### 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	48 V AC
	60 V DC
Number of positions	3



## Technical data

## General

Insulation resistance	$\geq$ 100 M $\Omega$
Coding	A - standard
Standards/regulations	M8 connector IEC 61076-2-104
Status display	No
Protective circuit/component	Unwired
Overvoltage category	II
Degree of pollution	3
Insertion/withdrawal cycles	≥ 100
Torque	0.2 Nm (M8 connectors)

### 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	M8 connector
Standards/regulations	IEC 61076-2-104
Flammability rating according to UL 94	НВ

## Cable

Cable type	PUR halogen-free black
Cable type (abbreviation)	PUR
Cable abbreviation	Li9Y11Y-HF
UL AWM style	20549
Conductor cross section	3x 0.25 mm <sup>2</sup>
AWG signal line	24
Conductor structure signal line	32x 0.10 mm
Core diameter including insulation	1.17 mm ±0.02 mm
Thickness, insulation	≥ 0.21 mm (Core insulation)
Wire colors	brown, blue, black
Overall twist	3 wires, twisted
Length of twist, overall twist	40 mm
External sheath, color	black-gray RAL 7021
Outer sheath thickness	approx. 0.5 mm
External cable diameter D	3.6 mm ±0.15 mm
Smallest bending radius, fixed installation	18 mm
Smallest bending radius, movable installation	36 mm



## Technical data

## Cable

10000000
44 mm
10 m
3 m/s
10 m/s²
18 kg/km
PUR
PP
Bare Cu litz wires
$\geq$ 100 G $\Omega$ *km (at 20 °C)
$\leq$ 78 $\Omega$ /km (at 20 °C)
≤ 300 V
≥ 3000 V
Flexible cable conduit capable
Silicone-free
Free of substances which would hinder coating with paint or varnish
in accordance with UL 758/1581 FT2
DIN EN 60332-2-2 (20 s)
in accordance with DIN VDE 0472 part 815
in accordance with DIN EN 60811-2-1
hydrolysis and microbe resistant
Highly resistant to acids, alkaline solutions and solvents
Resistant to salt water
partly UV-resistant in accordance with DIN EN ISO 4892-2-A
-40 °C 80 °C (cable, fixed installation)
-25 °C 80 °C (cable, flexible installation)

## **Environmental Product Compliance**

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

## Drawings



Schematic diagram



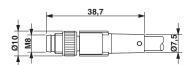
Pin assignment M8 plug, 3-pos., view male side

Cable cross section



PUR halogen-free black [PUR]

Dimensional drawing



Circuit diagram



M8 x 1 male plug, straight version

Contact assignment of the M8 plug

## Approvals

Approvals

Approvals

EAC / UL Listed / cUL Listed / cULus Listed

Ex Approvals

### Approval details

EAC

EAC-Zulassung

UL Listed	LISTED	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm		FILE E 221474
Nominal voltage UN			60 V	
Nominal current IN			4 A	



## **Approvals**

cUL Listed	CUL	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm		FILE E 221474
Nominal voltage UN			60 V	
Nominal current IN			4 A	

cULus Listed
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