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Sensor/actuator cable, 8-position, PE-X halogen-free, black-gray RAL 7021, free cable end, on Socket straight M12, A-coded, cable length: 2 m, for outdoor applications, with high-grade steel knurl

### Your advantages

- ☑ Easy and safe: 100% electrically tested plug-in components
- Robust throughout: resistant to oil, UV, and ozone, withstands temperatures from -40°C to +105°C



# **Key Commercial Data**

Packing unit	1 pc
Minimum order quantity	10 pc
GTIN	4 046356 773928
GTIN	4046356773928

#### Technical data

#### **Dimensions**

Length of cable	2 m

#### Ambient conditions

Ambient temperature (operation)	-40 °C 105 °C (Plug / socket)	
	-40 °C 85 °C (On sudden changes in temperature (according to IEC 60512-11-4))	
Degree of protection	IP65/IP68/IP69K	

#### General

Rated current at 40°C	2 A	
Rated voltage	30 V AC	
	30 V DC	
Number of positions	8	
Insulation resistance	$\geq$ 100 M $\Omega$	



# Technical data

## General

Coding	A - standard
Standards/regulations	M12 connector IEC 61076-2-101
Status display	No
Protective circuit/component	unwired
Degree of pollution	3
Insertion/withdrawal cycles	≥ 100
Torque	0.4 Nm (M12 connector)

### Material

Flammability rating according to UL 94	V0
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	PP
Material of grip body	PP
Material, knurls	Stainless steel
Sealing material	FPM

## Standards and Regulations

Standard designation	M12 connector
Standards/regulations	IEC 61076-2-101
Flammability rating according to UL 94	V0

## Cable

Cable type	PE-X black	
Cable type (abbreviation)	28X	
Cable abbreviation	Li2X2X	
Conductor cross section	8x 0.25 mm²	
AWG signal line	24	
Conductor structure signal line	32x 0.10 mm	
Core diameter including insulation	1.17 mm ±0.02 mm	
Thickness, insulation	approx. 0.25 mm (Core insulation)	
Wire colors	white, brown, green, yellow, gray, pink, blue, red	
Overall twist	8 wires around filler to the core	
Length of twist, overall twist	67 mm	
External sheath, color	black-gray RAL 7021	
Outer sheath thickness	approx. 1.3 mm	
External cable diameter D	6.8 mm ±0.2 mm	
Minimum bending radius, fixed installation	5 x D	
Minimum bending radius, flexible installation	10 x D	
Number of bending cycles	2000000	
Minimum bending radius, drag chain applications	10 x D	
Traversing path	10 m	



# Technical data

## Cable

3 m/s	
10 m/s²	
65 kg/km	
PE-X	
PP yarn	
PE-X	
Bare Cu litz wires	
≥ 100 MΩ*km (at 20 °C)	
≤ 78 Ω/km (at 20 °C)	
≤ 300 V AC	
≥ 3000 V AC (Spark test)	
Irradiated	
According to DIN EN 60332-1-2	
according to DIN EN 50266-2-5	
in accordance with DIN VDE 0472 part 815	
in accordance with DIN EN 50267-2-1	
According to DIN EN 60811-2-1, 168 h at 100°C	
According to DIN EN 50306	
Resistance to fuels according to IEC 60811, 168 h at 70°C	
UV resistant according to DIN VDE 0276-605	
-40 °C 105 °C (cable, fixed installation)	
-15 °C 105 °C (cable, flexible installation)	
20 °C ±5 °C (cable, drag chain applications)	

# **Environmental Product Compliance**

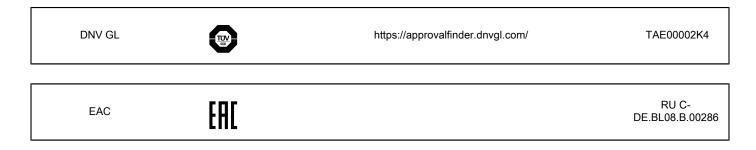
Lead 7439-92-1			
China RoHS	Environmentally Friendly Use Period = 50		
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"		

Approvals			
Approvals			
Approvals			
DNV GL / EAC			
Ex Approvals			

Approval details



# **Approvals**



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