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Sensor/Actuator cable, 8-position, PE-X halogen-free, black-gray RAL 7021, Plug straight M12, A-coded, on free cable end, Cable length: 10 m, for outdoor applications, with high-grade steel knurl

#### Why buy this product

- ☑ Corrosion protection for all exposed metal parts, thanks to the use of stainless steel type 1.4404
- Robust throughout: resistant to oil, UV, and ozone, withstands temperatures from -40°C to +105°C



#### **Key Commercial Data**

Packing unit	1 STK
GTIN	4 0 4 6 3 5 6 7 7 3 9 1 1
GTIN	4046356773911

#### Technical data

#### Dimensions

Length of cable	10 m
g	

#### 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
	IP67
	IP68
	IP69K

#### General

Rated current at 40°C	2 A
Rated voltage	30 V
Number of positions	8



#### Technical data

#### General

Insulation resistance	$\geq$ 100 M $\Omega$
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

#### 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

Traversing rate	3 m/s	
Acceleration	10 m/s²	
Cable weight	65 kg/km	
Outer sheath, material	PE-X	
Material, filler	PP yarn	
Material conductor insulation	PE-X	
Conductor material	Bare Cu litz wires	
Insulation resistance	≥ 100 MΩ*km (at 20 °C)	
Conductor resistance	$\leq$ 78 $\Omega$ /km (at 20 °C)	
Nominal voltage, cable	≤ 300 V AC	
Test voltage, cable	≥ 3000 V AC (Spark test)	
Flame resistance	According to DIN EN 60332-1-2	
	According to DIN EN 50266-2-5	
Halogen-free	in accordance with DIN VDE 0472 part 815	
	in accordance with DIN EN 50267-2-1	
Resistance to oil	According to DIN EN 60811-2-1, 168 h at 100°C	
	According to DIN EN 50306	
Other resistance	Resistance to fuels according to IEC 60811, 168 h at 70°C	
	UV resistant According to DIN VDE 0276-605	
Ambient temperature (operation)	-40 °C 105 °C (cable, fixed installation)	
	-15 °C 105 °C (cable, flexible installation)	
	20 °C ±5°C (cable, drag chain applications)	

#### Drawings

Schematic diagram



Pin assignment M12 plug, 8-pos., A-coded, view plug side

Cable cross section



PE-X black [28X]

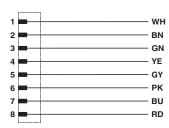


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Dimensional drawing

Plug, M12 x 1, straight, shielded

#### Circuit diagram



Contact assignment of the M12 plug

### Approvals

Approvals		
Approvals		
GL		
Ex Approvals		
Approval details		
GL GL	http://exchange.dnv.com/tari/	6000213 HH

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PHOENIX CONTACT GmbH & Co. KG Flachsmarktstr. 8 32825 Blomberg Germany

Tel. +49 5235 300 Fax +49 5235 3 41200

http://www.phoenixcontact.com