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Sensor/actuator cable, 8-position, PE-X/PE-X halogen-free, black-gray RAL 7021, shielded, Plug straight M12, A-coded, on free cable end, cable length: 5 m, for outdoor applications, with high-grade steel knurl

Your advantages

- 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
- Reliable signal transmission 360° shielding in environments with electromagnetic interference



Key Commercial Data

Packing unit	1 pc	
GTIN	4 046356 773980	
GTIN	4046356773980	

Technical data

Dimensions

Length of cable	5 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	≥ 100 MΩ



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

Standards and Regulations

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

Cable

Cabio	
Cable type	PE-X black
Cable type (abbreviation)	28X
Cable abbreviation	Li2X2X-C-V1-2X
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
Shielding	Braided copper wires
Optical shield covering	85 %
External sheath, color	black-gray RAL 7021
Inner sheath thickness	approx. 0.5 mm
Outer sheath thickness	approx. 0.7 mm
External cable diameter D	7.25 mm ±0,3 mm
Minimum bending radius, fixed installation	5 x D
Minimum bending radius, flexible installation	10 x D
Number of bending cycles	1000000



Technical data

Cable

10 x D		
10 m		
3 m/s		
10 m/s²		
81 kg/km		
PE-X		
PE-X		
PP yarn		
PE-X		
Bare Cu litz wires		
≥ 100 MΩ*km (at 20 °C)		
≤ 78 Ω/km (at 20 °C)		
approx. 80 pF (core-core)		
approx. 125 pF (core-shield)		
≤ 300 V AC		
≥ 3000 V AC (Spark test)		
≥ 1000 V AC (for 10 s)		
Inductance approx. 0.48 mH/km		
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)		
1-13 C 103 C (cable, liexible ilistaliation)		

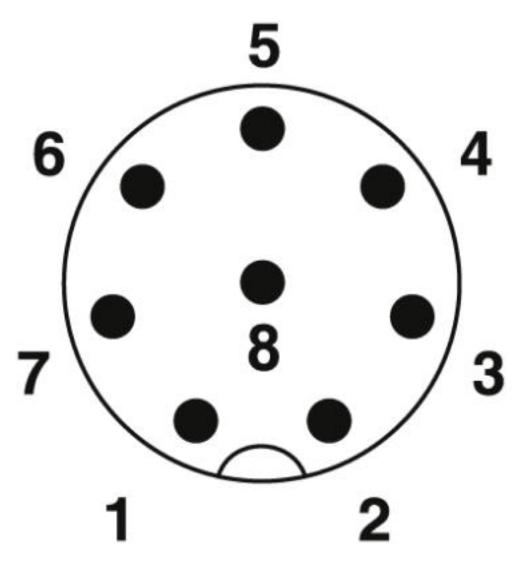
Environmental Product Compliance

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

Drawings

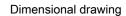


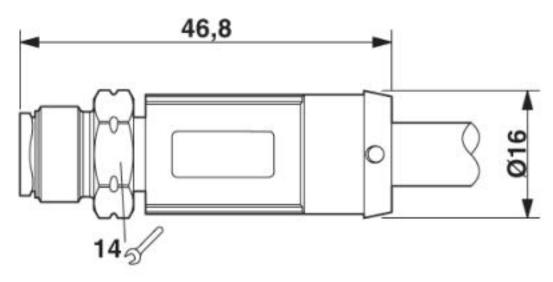
Schematic diagram



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

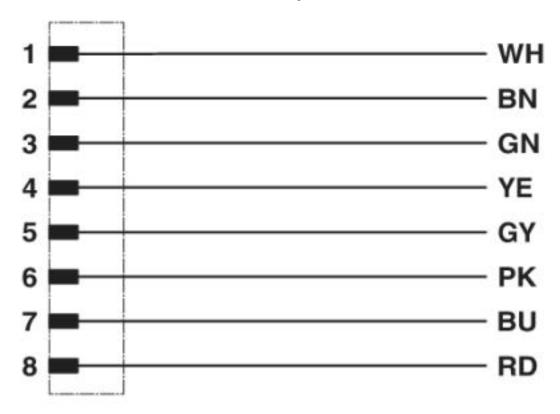






Plug, M12 x 1, straight, shielded

Circuit diagram



Contact assignment of the M12 plug



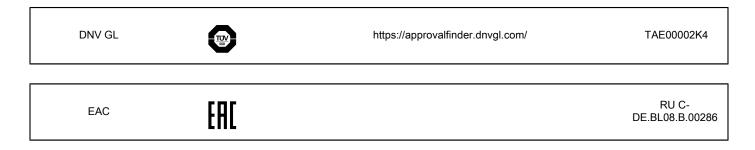
Cable cross section



PE-X black [28X]		
Approvals		
Approvals		
Approvals		
DNV GL / EAC		
Ex Approvals		
Approval details		



Approvals



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