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Sensor/actuator cable, 4-position, PE-X halogen-free, black-gray RAL 7021, Plug straight M12, A-coded, on Plug straight M12, A-coded, M12 Y-distributor, for outdoor applications, with high-grade steel knurl

Your advantages

- Easy and safe: 100% electrically tested plug-in components
- ☑ 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 рс
Minimum order quantity	25 pc
GTIN	4 055626 263922
GTIN	4055626263922

Technical data

Ambient conditions

Ambient temperature (operation)	-40 °C 105 °C (Plug / socket)
	-40 $^\circ\text{C}$ 85 $^\circ\text{C}$ (On sudden changes in temperature (according to IEC 60512-11-4))
	120 °C (at 48 h - see test report 19233)

General

Rated current at 40°C	4 A
Rated voltage	250 V AC
	250 V DC
Number of positions	4
Insulation resistance	\geq 100 M Ω
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)



Technical data

Material

Flammability rating according to UL 94	VO	
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	i	
Cable type	PE-X black	
Cable type (abbreviation)	28X	
Cable abbreviation	Li2X2X	
Conductor cross section	4x 0.5 mm² (Signal line)	
AWG signal line	20	
Conductor structure signal line	28x 0.15 mm	
Core diameter including insulation	1.6 mm ±0.05 mm (Signal line)	
Thickness, insulation	approx. 0.3 mm (Core insulation)	
	approx. 0.6 mm (Outer cable sheath)	
Wire colors	brown, white, blue, black	
Overall twist	4 wires, twisted	
Length of twist, overall twist	61.6 mm	
External sheath, color	black-gray RAL 7021	
External cable diameter D	5.2 mm ±0.2 mm	
Smallest bending radius, fixed installation	26 mm	
Smallest bending radius, movable installation	52 mm	
Number of bending cycles	2000000	
Bending radius	52 mm	
Traversing path	10 m	
Traversing rate	3 m/s	

Traversing rate	3 m/s
Acceleration	10 m/s ²
Cable weight	44 kg/km
Outer sheath, material	PE-X
Material conductor insulation	PE-X
Conductor material	Bare Cu litz wires
Insulation resistance	\geq 100 MΩ*km (at 20 °C)
Conductor resistance	\leq 39 Ω /km (at 20 °C)
Nominal voltage, cable	≤ 300 V AC

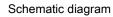


Technical data

Cable

Test voltage, cable	≥ 3000 V AC
Special properties	Irradiated
Flame resistance	according to DIN 60332-1-2
	according to DIN EN 50266-2-5
	according to IEC 60332-3-25 (bunched fire test)
Halogen-free	in accordance with DIN VDE 0472 part 815
Resistance to oil	in accordance with DIN EN 60811-2-1
Other resistance	UV resistant according to DIN VDE 0276-605
Concentration of fumes	according to DIN EN 61034
Fume corrosiveness	according to IEC 60754
Ambient temperature (operation)	-40 °C 105 °C (cable, fixed installation)
	-15 °C 105 °C (cable, flexible installation)

Drawings





Schematic diagram



Pin assignment M12 plug, 4-pos., A-coded, view plug side

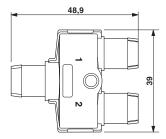
Cable cross section



PE-X black [28X]

Pin assignment M12 socket, 4-pos., A-coded, view female side

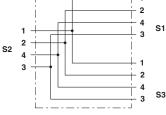
Dimensional drawing



Y-distributor

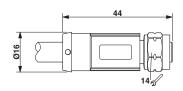


Circuit diagram

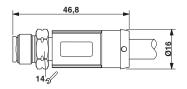


Contact assignment of the M12 Y distributor

Dimensional drawing

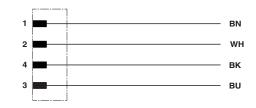


Dimensional drawing



Plug, M12 x 1, straight, shielded

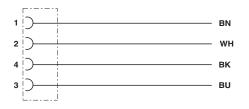




M12 x 1 socket, straight

Contact assignment of the M12 plug

Circuit diagram



Contact assignment of the M12 socket

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