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Sensor/Actuator cable, 4-position, PP-EPDM halogen-free, gray RAL 7035, Plug straight M12, A-coded, on Socket angled M12, A-coded, with 3 LEDs, Cable length: 3 m, Hygienic design, with plastic knurl

Why buy this product

- Easy and safe: 100% electrically tested plug-in components
- Easy to clean, thanks to the special hygienic design
- Contamination can be detected quickly thanks to the light color
- Convenient: increased machine availability thanks to quick and easy diagnostics

RoHS

Key Commercial Data

Packing unit	1 STK
GTIN	4 046356 677790
GTIN	4046356677790
Custom tariff number	85444290
Country of origin	Poland

Technical data

Dimensions

Length of cable	3 m	
Ambient conditions		
Ambient temperature (operation)	-40 °C 105 °C (Plug / socket)	
Degree of protection	IP65	
	IP67	
	IP68	



Technical data

Ambient conditions

	ІР69К	
General		
Rated current at 40°C	4 A	
Rated voltage	24 V	
Number of positions	4	
Insulation resistance	\geq 100 MΩ	
Coding	A - standard	
Standards/regulations	M12 connector IEC 61076-2-101	
	Material conformance FDA 21 CFR 177.2600	
Status display	3 LEDs	
Protective circuit/component	Unwired	
Overvoltage category	II	
Degree of pollution	3	
Insertion/withdrawal cycles	≥ 100	
Torque	0.4 Nm (M12 connector)	

Material

Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	PP
Material of grip body	PP
Material, knurls	Polypropylene
Sealing material	FKM

Standards and Regulations

Standard designation	M12 connector
Standards/regulations	IEC 61076-2-101
Standard designation	Material conformance
Standards/regulations	FDA 21 CFR 177.2600

Cable

Cable type	Halogen-free PP gray
Cable type (abbreviation)	600
Cable abbreviation	Li9Y9Y
Conductor cross section	4x 0.34 mm² (Signal line)
AWG signal line	22
Conductor structure signal line	42x 0.10 mm
Core diameter including insulation	1.27 mm ±0.02 mm (Signal line)



Technical data

Cable

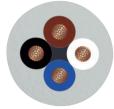
Thickness, insulation	≥ 0.21 mm (Core insulation)
Wire colors	brown, white, blue, black
Overall twist	4 wires, twisted
Length of twist, overall twist	48 mm
External sheath, color	gray RAL 7035
Outer sheath thickness	approx. 0.8 mm
External cable diameter D	4.7 mm ±0.15 mm
Minimum bending radius, fixed installation	5 x D
Minimum bending radius, flexible installation	10 x D
Number of bending cycles	400000
Minimum bending radius, drag chain applications	10 x D
Traversing path	10 m
Traversing rate	3 m/s
Acceleration	10 m/s ²
Torsion force	± 270 °/m (4,000,000 torsion cycles, max. 25 torsion cycles/min)
Cable weight	30 kg/km
Outer sheath, material	PP-EPDM
Material conductor insulation	PP
Conductor material	Bare Cu litz wires
Conductor resistance	58 Ω/km (at 20 °C)
Nominal voltage, cable	≤ 300 V AC
Test voltage, cable	≥ 3000 V AC (Spark test)
Special properties	FDA compliant according to FDA 21 CFR 177.2600
	highly flexible
	Flexible cable conduit capable
Halogen-free	in accordance with DIN VDE 0472 part 815
Other resistance	Resistant to cold bending and cold impacts According to DIN EN 60811-1-4 (-40 °C)
Ambient temperature (operation)	-40 °C 105 °C (cable, fixed installation)
	-25 °C 105 °C (cable, flexible installation)

Drawings

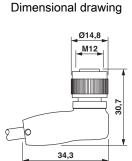
Schematic diagram

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

Cable cross section



Halogen-free PP gray [600]



Socket M12 x 1, angled, with LED

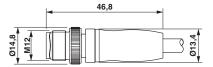
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Schematic diagram

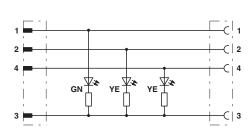


Pin assignment M12 socket, 4-pos., A-coded, view female side

Dimensional drawing



Plug, M12 x 1, straight, shielded



Circuit diagram

Contact assignment of the M12 plug and the M12 socket