

Sensor/actuator cable - SAC-5P-M12MS/ 2,0-28X OD - 1407255

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Sensor/actuator cable, 5-position, PE-X halogen-free, black-gray RAL 7021, Plug straight M12, A-coded, on free cable end, cable length: 2 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 046356 773720
GTIN	4046356773720

Technical data

Dimensions

Length of cable	2 m
Edilgin of dable	2111

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	4 A
Rated voltage	48 V AC
	60 V DC



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Technical data

General

Number of positions	5
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)

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	5x 0.5 mm²
AWG signal line	20
Conductor structure signal line	28x 0.15 mm
Core diameter including insulation	1.6 mm ±0.5 mm
Thickness, insulation	approx. 0.3 mm (Core insulation)
Wire colors	Brown, white, blue, black, gray
Overall twist	5 wires around filler to the core
Length of twist, overall twist	68 mm
External sheath, color	black-gray RAL 7021
Outer sheath thickness	approx. 1.25 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



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Technical data

Cable

Traversing path	10 m	
Traversing rate	3 m/s	
Acceleration	10 m/s²	
Cable weight	70 kg/km	
Outer sheath, material	PE-X	
Material, filler	PP yarn	
Material conductor insulation	PE-X	
Conductor material	Bare Cu litz wires	
Insulation resistance	\geq 100 M Ω *km (at 20 °C)	
Conductor resistance	\leq 39 Ω /m (at 20 °C)	
Nominal voltage, cable	≤ 300 V AC	
Test voltage, cable	≥ 3000 V AC (Spark test)	
Special properties	Irradiated	
Flame resistance	According to DIN EN 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	
	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)	

Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Drawings

Schematic diagram



Pin assignment M12 male connector, 5-pos., A-coded, male side

Cable cross section



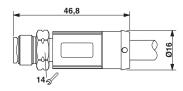
PE-X black [28X]



WH BK

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Dimensional drawing



Contact assignment of the M12 plug

Circuit diagram

Plug, M12 x 1, straight, shielded

Approvals

Approvals

DNV GL

Ex Approvals

Approval details

DNV GL	http://exchange.dnv.com/tari/	TAE00002K4

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