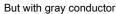


Sensor/actuator cable - SAC-4P-M12MS/1,5-280 OBS - 1412100

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Sensor/actuator cable, 4-position, PUR halogen-free, gray RAL 7001, Plug straight M12, A-coded, on free cable end, cable length: 1.5 m $\,$



RoHS

Key Commercial Data

Packing unit	1 pc
Minimum order quantity	50 pc
GTIN	4 046356 949415
GTIN	4046356949415

Technical data

Dimensions

Length of cable	1.5 m	
General		
Rated current at 40°C	4 A	
Rated voltage	250 V AC	
	250 V DC	
Number of positions	4	
Insulation resistance	≥ 100 MΩ	
Coding	A - standard	
Status display	No	
Overvoltage category	11	
Degree of pollution	3	
Insertion/withdrawal cycles	≥ 100	

Material

Flammability rating according to UL 94	НВ
Contact material	CuSn

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Sensor/actuator cable - SAC-4P-M12MS/1,5-280 OBS - 1412100

Technical data

Material

Contact surface material	Ni/Au
Contact carrier material	TPU GF
Material of grip body	TPU, hardly inflammable, self-extinguishing
Material, knurls	Zinc die-cast, nickel-plated

Standards and Regulations

Halogen-free	The cable is halogen-free
Flammability rating according to UL 94	НВ

Cable

Cable	
Cable type	PUR halogen-free gray
Cable type (abbreviation)	280
Cable abbreviation	Li9Y11Y
Conductor cross section	0.34 mm ²
AWG signal line	22
Conductor structure signal line	42x 0.10 mm
Core diameter including insulation	1.27 mm ±0.02 mm
Thickness, insulation	≥ 0.21 mm (Core insulation)
	approx. 0.8 mm (Outer cable sheath)
Wire colors	brown, white, blue, black
Overall twist	4 wires, twisted
Length of twist, overall twist	49.5 mm
External sheath, color	gray RAL 7001
External cable diameter D	4.7 mm ±0.15 mm
Smallest bending radius, fixed installation	23.5 mm
Smallest bending radius, movable installation	47 mm
Number of bending cycles	400000
Bending radius	47 mm
Traversing path	10 m
Traversing rate	3 m/s
Acceleration	10 m/s ²
Cable weight	30 kg/km
Outer sheath, material	PUR
Material conductor insulation	PP
Conductor material	Bare Cu litz wires
Insulation resistance	\geq 100 MΩ*km
Conductor resistance	max. 58 Ω/km (at 20 °C)
Nominal voltage, cable	≤ 300 V
Test voltage, cable	≥ 3000 V
Special properties	Flexible cable conduit capable
	Silicone-free
	Free of substances which would hinder coating with paint or varnish

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Sensor/actuator cable - SAC-4P-M12MS/1,5-280 OBS - 1412100

Technical data

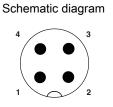
Cable

Flame resistance	in accordance with DIN UL-Style 20549
	in accordance with FT1 as per UL 758
Halogen-free	in accordance with DIN VDE 0472 part 815
	in accordance with DIN EN 50267-2-1
Resistance to oil	in accordance with DIN EN 60811-2-1
Other resistance	Highly resistant to acids, alkaline solutions and solvents
	hydrolysis and microbe resistant
Ambient temperature (operation)	-40 °C 80 °C (cable, fixed installation)
	-25 °C 80 °C (cable, flexible installation)

Environmental Product Compliance

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

Drawings



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

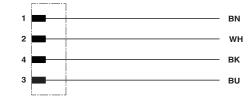


Cable cross section

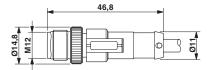


PUR halogen-free gray [280]

Circuit diagram



Dimensional drawing



Plug, M12 x 1, straight, shielded

Contact assignment of the M12 plug

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