


SAC-4P-M12MS/3,0-PUR/M 8FS

Order No.: 1694936



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Sensor/Actuator cable, 4-position, PUR halogen-free, Black-gray RAL 7021, Plug, straightLink:M12, A-coded, on Socket, straight M8, Cable length: 3 m

Commercial data	
GTIN (EAN)	 4 017918 180386
sales group	D131
Pack	1 pcs.
Customs tariff	85444290
Catalog page information	Page 130 (PC-2011)

Product notes

WEEE/RoHS-compliant since:
08/01/2005



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Technical data	
General data	
Rated current at 40°C	4 A
Rated voltage	30 V
Number of positions	4
Volume resistance	≤ 5 mΩ

Insulation resistance	≥ 100 MΩ
Length of cable	3 m
Ambient temperature (operation)	-25 °C ... 90 °C (Male connector / female connector)

General characteristics

Standards/regulations	M12 connector IEC 61076-2-101 M8 connector IEC 61076-2-104
Coding	A - standard
Surge voltage category	II
Pollution degree	3
Degree of protection	IP65/IP68/IP69K
Insertion/withdrawal cycles	≥ 100
Torque	0.4 Nm (M12 connector) 0.2 Nm (M8 plug-in connectors)
Contact material	CuSn
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
Sealing material	NBR
Status display	No

Conductor data

Cable type	PUR halogen-free black
Cable type (abbreviation)	PUR
Cable abbreviation	Li9Y11Y-HF
Conductor cross section	0.25 mm ²
AWG signal line	24
Conductor structure signal line	32 x 0.10 mm
Core diameter including insulation	1.17 mm ±0.02 mm
Thickness, insulation	≥ 0.21 mm (Core insulation) Approx. 0.7 mm (Outer cable sheath)
External cable diameter	4.4 mm ±0.15 mm
Wire colors	Brown, white, blue, black
External sheath, color	RAL 9005 (black gray)
Insulation resistance	≥ 100 GΩ*km (at 20°C)

Conductor resistance	max. 78 Ω/km (at 20°C)
Nominal voltage, conductor	≤ 300 V
Test voltage, conductor	≥ 3000 V
Overall twist	4 wires, twisted
Outer sheath, material	PUR
Material conductor insulation	PP
Conductor material	Bare Cu litz wires
Cable weight	25 kg/km
Smallest bending radius, fixed installation	22 mm
Smallest bending radius, movable installation	44 mm
Number of bending cycles	4000000
Bending radius	44 mm
Traversing path	10 m
Traversing rate	3 m/s
Acceleration	5 m/s ²
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation) -25 °C ... 80 °C (cable, flexible installation)
Special properties	Flexible cable conduit capable Silicone-free Free of substances which would hinder coating with paint or varnish
Flame resistance	in accordance with DIN UL-Style 20549
Halogen-free	in accordance with DIN VDE 0472 part 815
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

Certificates / Approvals

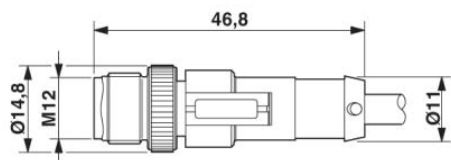


Certification

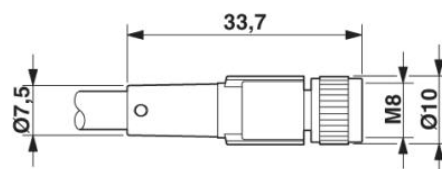
CUL Listed, GOST, UL Listed

Diagrams/Drawings

Dimensioned drawing

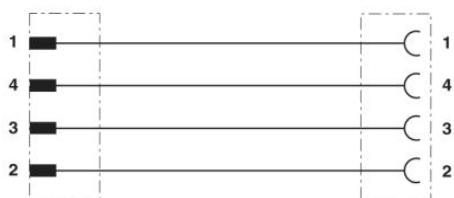


M12 x 1 male connector, straight



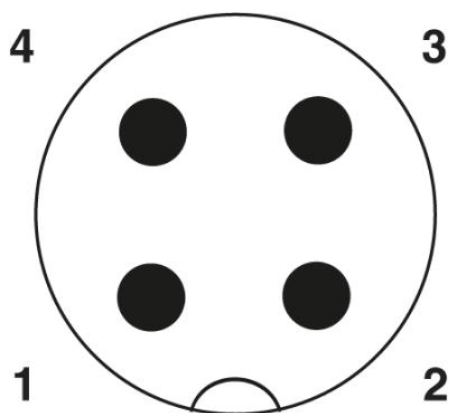
Socket M8 x 1, straight

Circuit diagram

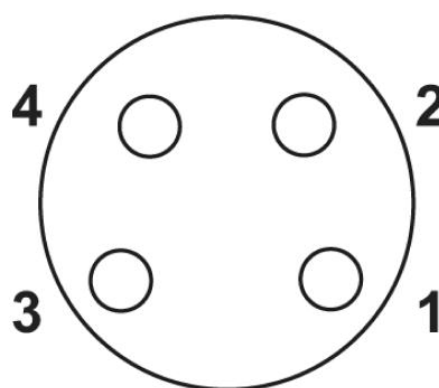


Contact assignment of M12 plugs / M8 sockets

Schematic diagram



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



Pin assignment M8 socket, 4-pos., view female side

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