

SAC-4P- 1,5-PUR/M12FS SH

Order No.: 1682841

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Sensor/Actuator cable, 4-position, PUR, halogen-free, Black-gray RAL 7021, shielded, Free conductor end, on Socket, straight M12, A-coded, Cable length: 1.5 m

Commercial data

EAN	4017918169152
Pack	1 pcs.
Customs tariff	85444290
Weight/Piece	0.0882 KG
Catalog page information	Page 85 (PC-2009)

Product notes

WEEE/RoHS-compliant since:
11/17/2006



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Technical data

General data

Nominal current I_N	4 A
Nominal voltage U_N	250 V
Number of positions	4
Volume resistance	$\leq 5 \text{ m}\Omega$

Insulation resistance	$\geq 100 \text{ M}\Omega$
Length of cable	1.5 m
Stripping length of the free conductor end	50 mm
Ambient temperature (operation)	-25 °C ... 90 °C (plug/socket)

General characteristics

Coding	A - standard
Surge voltage category	II
Pollution degree	3
Degree of protection	IP65/IP67/IP69K
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 shielded
Cable type (abbreviation)	PUR
Cable abbreviation	Li9Y-V1-C-V1-11Y
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 $\pm$ 0.02 mm
Thickness, insulation	$\geq 0.21 \text{ mm}$ (Core insulation)
	Approx. 1 mm (Outer cable sheath)
External cable diameter	5.90 mm
Wire colors	Brown, white, blue, black
External sheath, color	Black-gray RAL 7021
Insulation resistance	$\geq 100 \text{ G}\Omega \cdot \text{km}$
Conductor resistance	max. 58 Ω/km
Nominal voltage, conductor	$\leq 300 \text{ V}$
Test voltage, conductor	$\geq 3000 \text{ V}$
Overall twist	4 wires, twisted

Shielding	Braided shielding made of tin-plated copper wires
Optical shield covering	85 %
Outer sheath, material	PUR
Material conductor insulation	PP
Conductor material	Bare Cu litz wires
Cable weight	47 kg/km
Smallest bending radius, fixed installation	59 mm
Smallest bending radius, movable installation	59 mm
Number of bending cycles	4000000
Bending radius	50 mm
Traversing path	10 m
Traversing rate	3 m/s
Acceleration	10 m/s ²
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation)
	-5 °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	As per UL-Style 20549
Freedom from halogen	As per DIN VDE 0472 part 815
Resistance to oil	complying with DIN EN 60811-2-1
Other resistance	Highly resistant to acids, alkaline solutions and solvents
	hydrolysis and microbe resistant

Certificates / Approvals

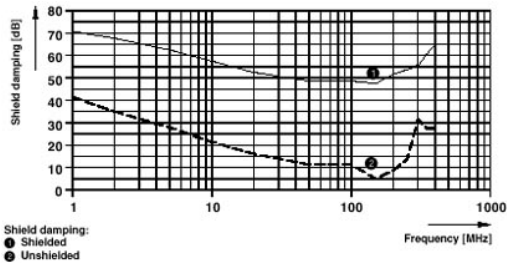


Certification

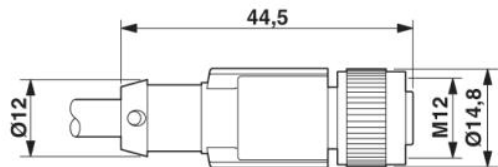
CUL Listed, GOST, UL Listed

Diagrams/Drawings

Diagram

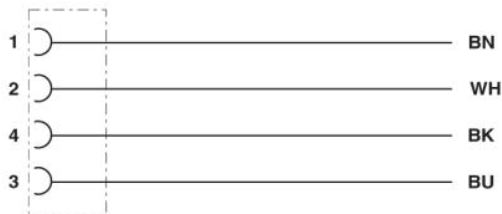


Dimensioned drawing



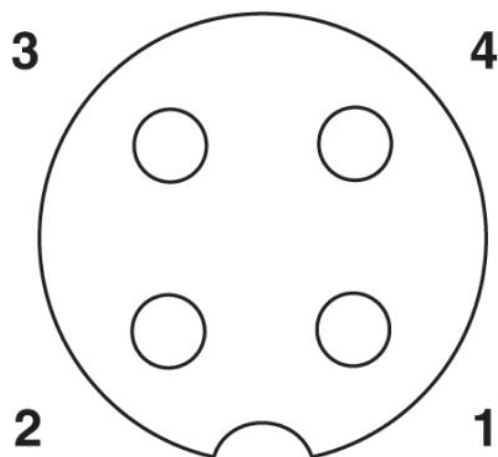
M12 x 1 female connector, straight, shielded

Circuit diagram



Contact assignment of the M12 socket

Schematic diagram



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

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