

SAC-8P-M12MS/ 5,0-PUR SH

Order No.: 1526981

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Sensor/Actuator cable, 8-position, PUR, halogen-free, Black-gray RAL 7021, shielded, Plug, straight M12, A-coded, on Free conductor end, Cable length: 5 m

Commercial data

GTIN (EAN)	4017918958305
Note	Made-to-order
sales group	D117
Pack	5 pcs.
Customs tariff	85444290
Weight/Piece	0.29776 KG
Catalog page information	Page 95 (PC-2009)

Product notes

WEEE/RoHS-compliant since:
03/02/2006



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Technical data**General data**

Rated current at 40°C	2 A
Rated voltage	30 V
Number of positions	8
Volume resistance	$\leq 0.005 \Omega$

Insulation resistance	$\geq 10 \text{ M}\Omega$
Length of cable	5 m
Stripping length of the free conductor end	50 mm
Ambient temperature (operation)	-25 °C ... 90 °C (Male connector / female connector)

General characteristics

Standards/regulations	M12 male connector IEC 61076-2-101
Coding	A - standard
Surge voltage category	II
Pollution degree	3
Degree of protection	IP65/IP67/IP69K
Insertion/withdrawal cycles	≥ 100
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)
Status display	No

Conductor data

Cable type	PUR halogen-free black
Cable type (abbreviation)	PUR
Cable abbreviation	Li9YVI-C-VI-11Y
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 $\pm$ 0.02 mm
Thickness, insulation	$\geq 0.21 \text{ mm}$ (Core insulation)
	Approx. 0.6 mm (Outer cable sheath)
External cable diameter	5.9 mm $\pm$ 0.15 mm
Wire colors	Brown, white, green, yellow, gray, pink, blue, red
External sheath, color	Black-gray RAL 7021
Insulation resistance	$\geq 100 \text{ M}\Omega \cdot \text{km}$ (at 20°C)
Conductor resistance	max. 78 Ω/km (at 20°C)
Nominal voltage, conductor	$\leq 300 \text{ V}$
Test voltage, conductor	$\geq 3000 \text{ V}$

Overall twist	8 wires around filler to the core
Shielding	Tinned copper braided shield
Optical shield covering	85 %
Outer sheath, material	PUR
Material, filler	PE
Material conductor insulation	PP
Conductor material	Bare Cu litz wires
Cable weight	54 kg/km
Smallest bending radius, fixed installation	59 mm
Smallest bending radius, movable installation	59 mm
Number of bending cycles	4000000
Bending radius	59 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	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

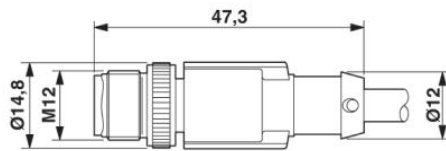


Certification

CUL Listed, UL Listed

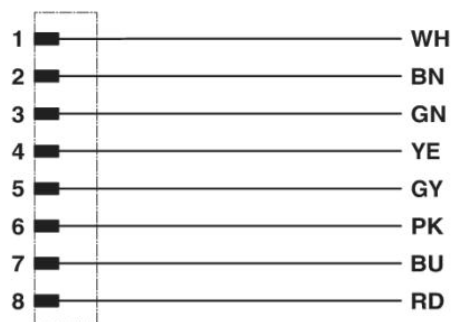
Diagrams/Drawings

Dimensioned drawing



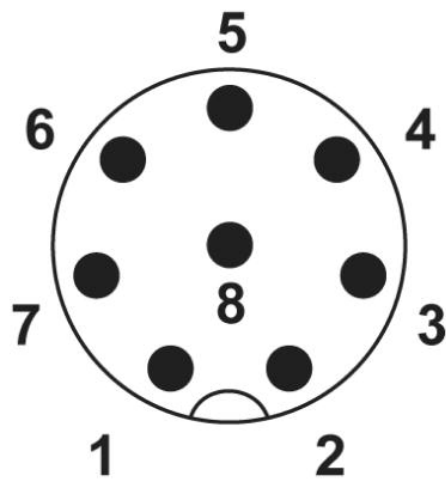
M12 x 1 male connector, straight, shielded

Circuit diagram



Contact assignment of the M12 plugs

Schematic diagram



Pin assignment M12 plug, 8-pos., view plug side

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