

SAC-5P-M12MR/ 1,5-PUR SH

Order No.: 1682757



Sensor/actuator cable, 5-pos., PUR halogen-free black, shielded,
angled M12 plug on free conductor end, cable length: 1.5 m

Commercial data

EAN	4017918169060
Pack	1 Pcs.
Customs tariff	85444290
Weight/Piece	0.0911 KG
Catalog page information	Page 77 (PC-2007)

Product notes

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



Technical data

General data

Nominal current I_N	4 A
Nominal voltage U_N	60 V
Number of positions	5
Volume resistance	$\leq 5 \text{ m}\Omega$
Insulation resistance	$\geq 100 \text{ M}\Omega$

Length of cable	1.5 m
Ambient temperature (operation)	-25 °C ... 90 °C (plug/socket)
	-25 °C ... 80 °C (cable, fixed installation)
	-5 °C ... 80 °C (cable, flexible installation)

General characteristics

Coding	A - standard
Inflammability class acc. to UL 94	HB
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)
Status display	No

Conductor data

Cable type	PUR halogen-free black shielded
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 ±0.02 mm
Thickness, insulation	Approx. 0.21 mm (Core insulation)
	Approx. 0.8 mm (Outer cable sheath)
External cable diameter	5.90 mm
Wire colors	Brown, white, blue, black, gray
External sheath, color	Black-gray RAL 7021
Insulation resistance	≥ 100 GΩ*km
Conductor resistance	Max. 58 Ω/km
Nominal voltage, conductor	300 V
Test voltage, conductor	3000 V
Overall twist	5 wires around filler to the core
Shielding	Braided copper wires

Optical shield covering	85 %
Outer sheath, material	PUR
Material, filler	PE
Material conductor insulation	PP
Conductor material	Bare Cu litz wires
Cable weight	48 kg/km
Smallest bending radius, fixed installation	59 mm
Smallest bending radius, movable installation	59 mm
Max. bending cycles	4000000
Bending radius	59 mm
Traversing path	10 m
Traversing rate	3 m/s
Acceleration	10 m/s ²
Special properties	Flexible cable conduit capable
Flame resistance	As per UL-Style 20549
Freedom from halogen	As per DIN VDE 0472 part 815

Certificates / Approvals



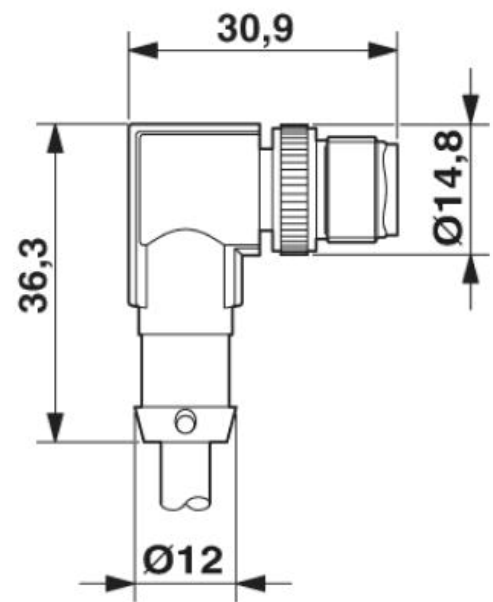
Certification

CUL Listed, GOST, UL Listed

Drawings

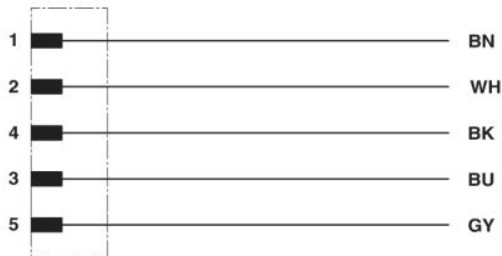
Dimensioned drawing

M12 x 1 male connector, angled, shielded

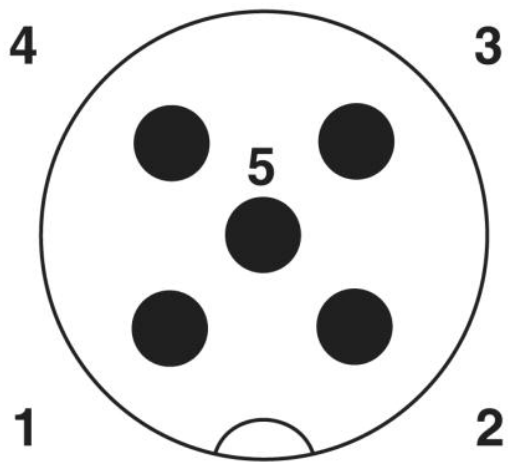


Circuit diagram

Contact assignment of the M12 plug



Schematic diagram



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