



Extract from the online catalog

# SAC-4P-M12MS/ 1,5-PUR/M12FS SH

Order No.: 1500868



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=1500868>

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

Commercial data	
EAN	4017918612269
Pack	1 pcs.
Customs tariff	85444290
Weight/Piece	0.1014 KG
Catalog page information	Page 85 (PC-2009)

#### Product notes

WEEE/RoHS-compliant since:  
10/31/2006



<http://www.download.phoenixcontact.com>  
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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	$\leq 5 \text{ m}\Omega$

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Insulation resistance	≥ 100 MΩ
Length of cable	1.5 m
<b>General characteristics</b>	
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
<b>Conductor data</b>	
Cable type	PUR halogen-free black shielded
Cable type (abbreviation)	PUR
Cable abbreviation	Li9Y-V1-C-V1-11Y
Conductor cross section	0.34 mm <sup>2</sup>
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. 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	≥ 100 GΩ*km
Conductor resistance	max. 58 Ω/km
Nominal voltage, conductor	≤ 300 V
Test voltage, conductor	≥ 3000 V
Overall twist	4 wires, twisted
Shielding	Braided shielding made of tin-plated copper wires
Optical shield covering	85 %

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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 <sup>2</sup>
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

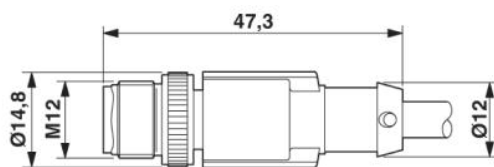


Certification

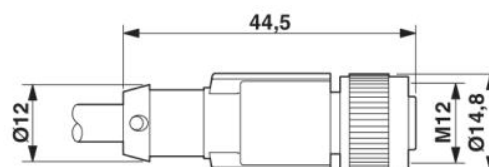
CUL Listed, GOST, UL Listed

### Diagrams/Drawings

Dimensioned drawing



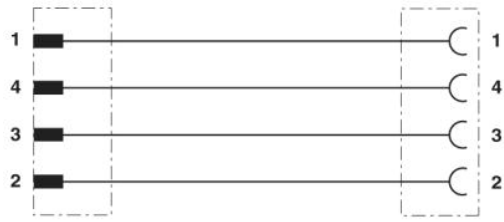
M12 x 1 male connector, straight, shielded



M12 x 1 female connector, straight, shielded

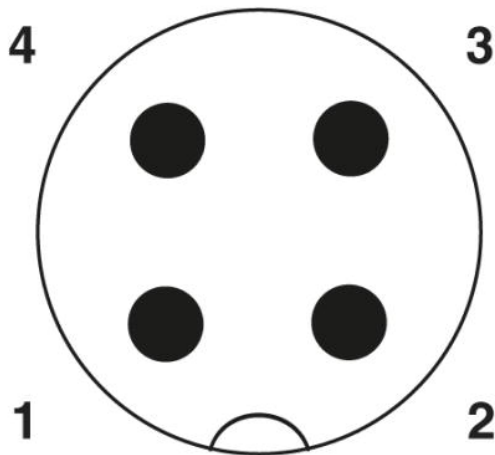
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Circuit diagram

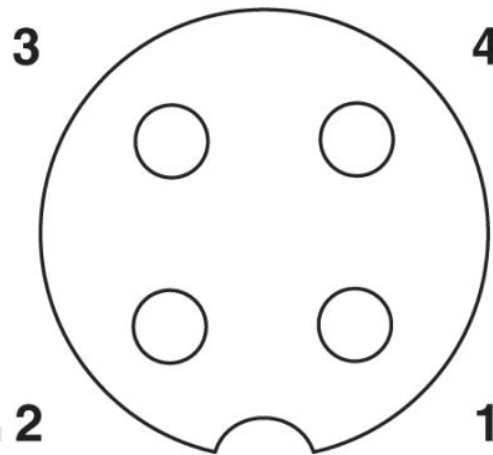


Contact assignment of the M12 plug and the M12 socket

Schematic diagram



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



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

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