

**SAC-2P-M12MSB/ 1,0-910/M12FSB**

Order No.: 1507366

<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=1507366>

Bus system cable, 2-position, PUR, halogen-free, Violet, RAL 4001, shielded, Plug, straight M12, B-coded, on Socket, straight M12, B-coded, Cable length: 1 m

**PROFI  
BUS****Product notes**WEEE/RoHS-compliant since:  
08/01/2006

Commercial data	
EAN	4017918900182
Pack	1 pcs.
Customs tariff	85444290
Weight/Piece	0.1035 KG
Catalog page information	Page 272 (PC-2009)

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**Technical data**

General data	
Nominal current $I_N$	4 A
Nominal voltage $U_N$	250 V
Number of positions	2
Volume resistance	$\leq 5 \text{ m}\Omega$

Insulation resistance	$\geq 100 \text{ M}\Omega$
Length of cable	1 m

#### General characteristics

Coding	B - inverse
Surge voltage category	II
Pollution degree	3
Degree of protection	IP65/IP67/IP69K
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	PA 66
Material of grip body	TPU, hardly inflammable, self-extinguishing
Material, knurls	Zinc die-cast, (nickel-plated)
Sealing material	NBR
Status display	No

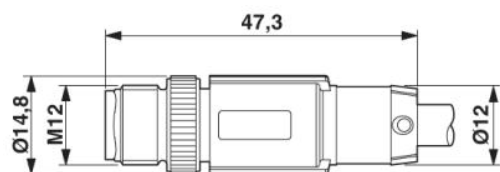
#### Conductor data

Cable type	PROFIBUS
Cable type (abbreviation)	910
Conductor cross section	0.25 mm <sup>2</sup>
AWG signal line	24
Conductor structure, signal line	19x 0.13 mm
Core diameter including insulation	2.55 mm $\pm$ 0.07 mm
External cable diameter	7.80 mm
Wire colors	Red, green
External sheath, color	Violet, RAL 4001
Insulation resistance	$\geq 5 \text{ G}\Omega \cdot \text{km}$
Conductor resistance	$\leq 78.4 \text{ }\Omega/\text{km}$
Working capacitance	32 pF (core-core)
Wave impedance	Nom. 150 $\Omega \pm 10 \%$
Nominal voltage, conductor	30 V
Test voltage Core/Core	1500 V
Type of pair shielding	Aluminum-lined polyester foil
Overall twist	2 cores with 2 fillers to the core
Shielding	Braided shielding made of tin-plated copper wires
Optical shield covering	80 %

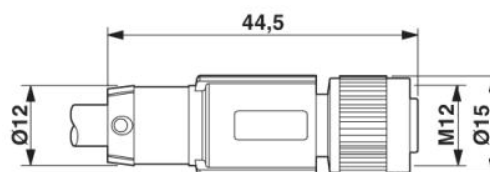
Outer sheath, material	PUR
Material conductor insulation	Foamed PE
Conductor material	Tin-plated Cu litz wires
Smallest bending radius, fixed installation	min. 78 mm
Smallest bending radius, movable installation	min. 78 mm
Number of bending cycles	5000000
Bending radius	78 mm
Traversing path	10 m
Traversing rate	3 m/s
Acceleration	7 m/s <sup>2</sup>
Ambient temperature (operation)	-20 °C ... 80 °C (cable, fixed installation) -20 °C ... 80 °C (cable, flexible installation)
Flame resistance	IEC 60332-1
	DIN EN 50265-2-1

### Diagrams/Drawings

#### Dimensioned drawing

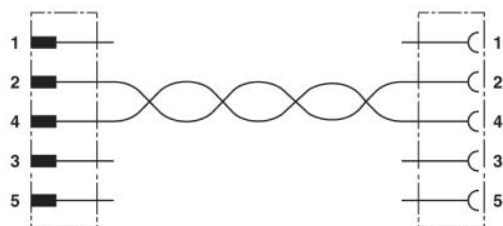


M12 x 1 male connector, straight, shielded



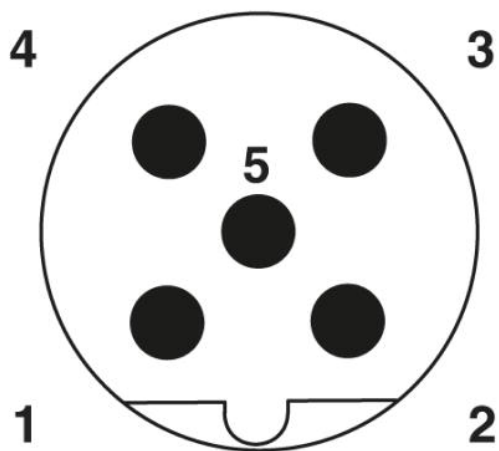
M12 x 1 female connector, straight, shielded

#### Circuit diagram

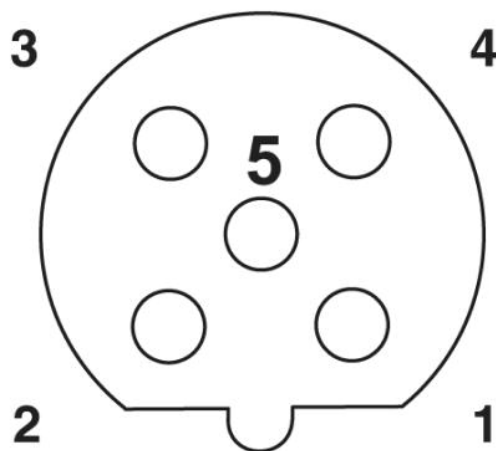


Schematic diagram

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



Pin assignment M12 female connector, 5-pos., B-coded, female side

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