



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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**SAC-2P-MSB/ 0,5-910/FSB SCO**

Order No.: 1518119

<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=1518119>

Bus system cable, 2-position, PUR, halogen-free, Violet, RAL 4001, shielded, Plug, straight M12-SPEEDCON, B-coded, on Socket, straight M12-SPEEDCON, B-coded, Cable length: 0.5 m

**PROFI  
BUS****Commercial data**

EAN	4017918968236
Pack	1 pcs.
Customs tariff	85444290
Weight/Piece	0.0711 KG
Catalog page information	Page 272 (PC-2009)

**Product notes**

WEEE/RoHS-compliant since:  
01/01/2008



<http://www.download.phoenixcontact.com>  
Please note that the data given here has been taken from the online catalog. For comprehensive information and data, please refer to the user documentation. The General Terms and Conditions of Use apply to Internet downloads.

**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	0.5 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

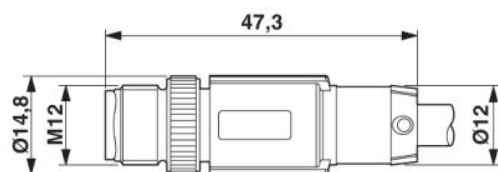
#### Conductor data

Cable type	PROFIBUS
Cable type (abbreviation)	910
Conductor cross section	$0.25 \text{ mm}^2$
AWG signal line	24
Conductor structure, signal line	19x 0.13 mm
Core diameter including insulation	$2.55 \text{ mm} \pm 0.07 \text{ mm}$
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. $150 \text{ }\Omega \pm 10 \%$
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 %

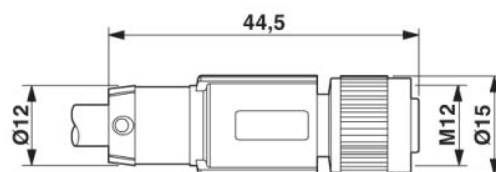
Outer sheath, material	PUR
Material conductor insulation	Foamed PE
Conductor material	Tin-plated Cu litz wires
Smallest bending radius, fixed installation	min. 78 mm
Smallest bending radius, movable installation	min. 78 mm
Number of bending cycles	5000000
Bending radius	78 mm
Traversing path	10 m
Traversing 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

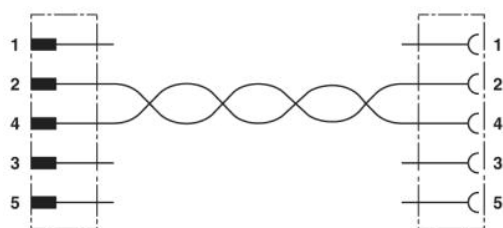


M12 x 1 male connector, straight, shielded



M12 x 1 female connector, straight, shielded

### Circuit diagram

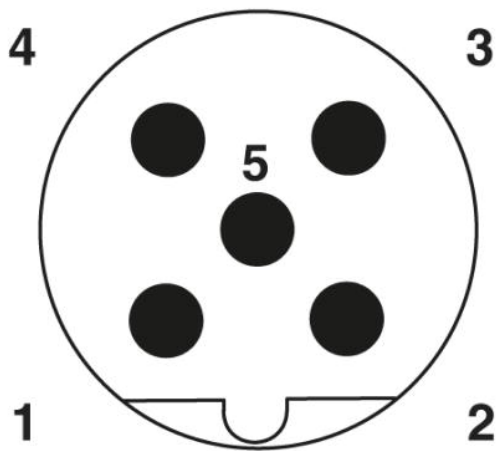


Contact assignment of the M12 plug and the M12 socket

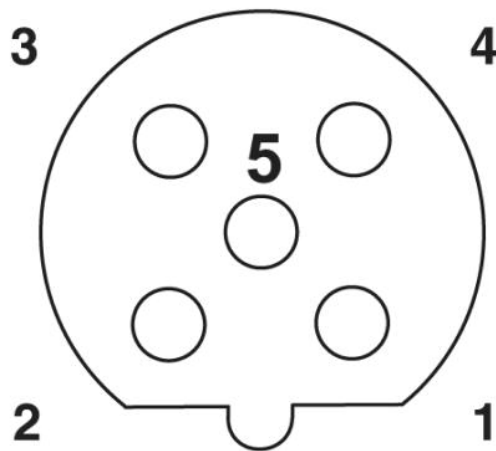


Schematic diagram

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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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