

**SAC-5P-M12MSB/ 0,3-900/M12FSB**

Order No.: 1507162

<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=1507162>

Bus system cable, INTERBUS, 5-pos., PUR green halogen-free, shielded, straight connector M12 B-coded on straight socket M12 B-coded, length: 0.3 m

**Commercial data**

|                          |                    |
|--------------------------|--------------------|
| EAN                      | 4017918900014      |
| Pack                     | 1 pcs.             |
| Customs tariff           | 85444290           |
| Weight/Piece             | 0.0581 KG          |
| Catalog page information | Page 266 (PC-2009) |

**Product notes**

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



<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 $U_N$ | 60 V                     |
| Number of positions   | 5                        |
| Volume resistance     | $\leq 5 \text{ m}\Omega$ |

|                                 |   |
|---------------------------------|---|
| Insulation resistance           | ≥ 100 MΩ  |
| Length of cable                 | 0.3 m   |
| Ambient temperature (operation) | -25 °C ... 90 °C (plug/socket)                  |
|                                 | -40 °C ... 80 °C (cable, fixed installation)    |
|                                 | -30 °C ... 70 °C (cable, flexible installation) |

#### General characteristics

|                                    |   |
|------------------------------------|---|
| Coding                             | B - inverse                                 |
| Inflammability class acc. to UL 94 | V0  |
| 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  |

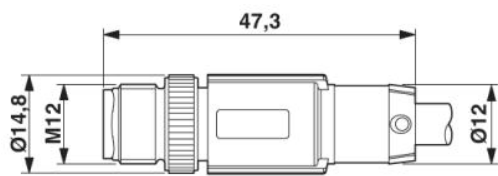
#### Conductor data

|                                  |                                      |
|----------------------------------|--------------------------------------|
| Cable type                       | INTERBUS                             |
| Cable type (abbreviation)        | 900                                  |
| Conductor cross section          | 0.25 mm <sup>2</sup>                 |
| AWG signal line                  | 24                                   |
| Conductor structure, signal line | 32 x 0.10 mm                         |
| External cable diameter          | 8.00 mm                              |
| Wire colors                      | Green-yellow, white-brown, gray-pink |
| External sheath, color           | Green RAL 6017                       |
| Insulation resistance            | > 5 GΩ*km                            |
| Conductor resistance             | ≤ 159.8 mΩ/m                         |
| Working capacitance              | 60 nF (At 800 Hz)                    |
| Signal speed                     | 0.66 c                               |
| Nominal voltage, conductor       | 250 V                                |
| Test voltage Core/Core           | 1500 V                               |
| Test voltage Core/Shield         | 1000 V                               |

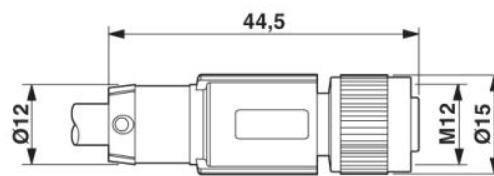
|   |                      |
|---|----------------------|
| Twisted pairs                                 | 2 cores to the pair  |
| Shielding                                     | Braided copper wires |
| Outer sheath, material                        | PUR                  |
| Conductor material                            | Bare Cu litz wires   |
| Smallest bending radius, fixed installation   | 60 mm                |
| Smallest bending radius, movable installation | 120 mm               |

### Drawings

#### Dimensioned drawing

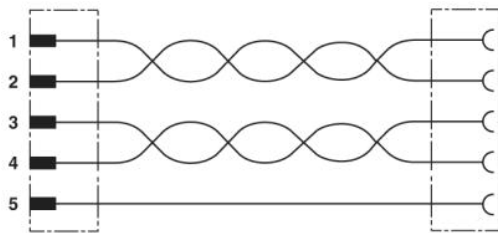


M12 x 1 male connector, straight, shielded



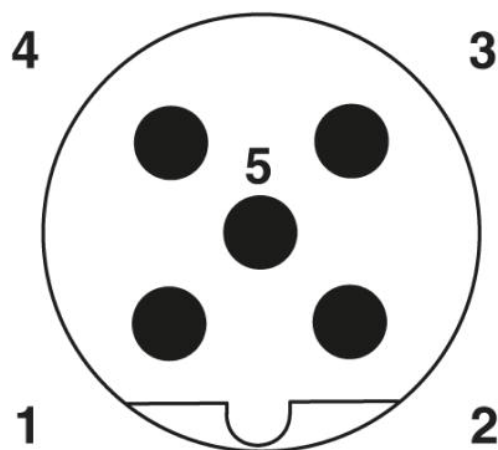
M12 x 1 female connector, straight, shielded

#### Circuit diagram

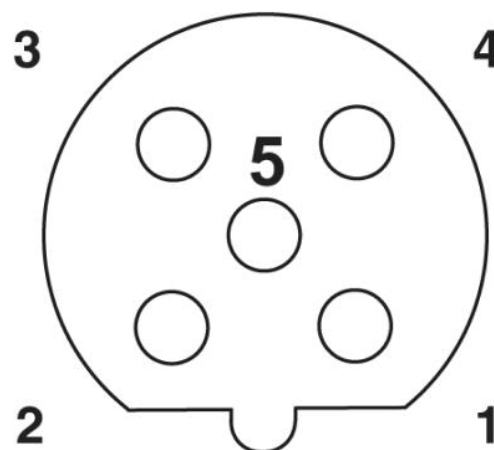


Contact assignment of the M12 connector and the M12 socket

#### Schematic diagram



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



Pin assignment M12 socket, 5-pos., B-coded, view socket side

**Address**

PHOENIX CONTACT GmbH & Co. KG  
Flachmarktstr. 8  
32825 Blomberg, Germany  
Phone +49 5235 3 00  
Fax +49 5235 3 41200  
<http://www.phoenixcontact.com>



© 2009 Phoenix Contact  
Technical modifications reserved;