



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

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

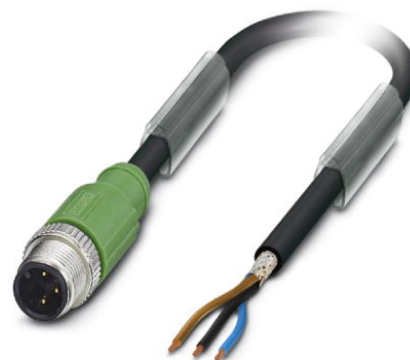
Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



## SAC-3P-M12MS/ 5,0-PUR SH

Order No.: 1682676



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=1682676>

Sensor/Actuator cable, 3-position, PUR, halogen-free, Black-gray RAL 7021, shielded, Plug, straight M12, A-coded, on Free conductor end, Cable length: 5 m

| Commercial data          |                   |
|--------------------------|-------------------|
| EAN                      | 4017918168957     |
| Pack                     | 1 pcs.            |
| Customs tariff           | 85444290          |
| Weight/Piece             | 0.2411 KG         |
| Catalog page information | Page 79 (PC-2009) |

### Product notes

WEEE/RoHS-compliant since:  
06/12/2007



<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        |                          |
|-----------------------|--------------------------|
| <b>General data</b>   |                          |
| Nominal current $I_N$ | 4 A                      |
| Nominal voltage $U_N$ | 250 V                    |
| Number of positions   | 3                        |
| Volume resistance     | $\leq 5 \text{ m}\Omega$ |

|  |          |
|--|----------|
| Insulation resistance                      | ≥ 100 MΩ |
| Length of cable                            | 5 m      |
| Stripping length of the free conductor end | 50 mm    |

**General characteristics**

|                          |   |
|--------------------------|---|
| 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)              |
| Status display           | No  |

**Conductor data**

|                                    |  |
|------------------------------------|--|
| 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)<br>Approx. 1.1 mm (Outer cable sheath) |
| External cable diameter            | 5.90 mm  |
| Wire colors                        | Brown, 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                      | 3 wires, twisted   |
| Shielding                          | Braided copper wires   |
| Optical shield covering            | 85 %   |

|   |  |
|---|--|
| Outer sheath, material                        | PUR  |
| Material conductor insulation                 | PP   |
| Conductor material                            | Bare Cu litz wires   |
| Cable weight                                  | 44 kg/km   |
| Smallest bending radius, fixed installation   | 59 mm  |
| Smallest bending radius, movable installation | 59 mm  |
| Number of bending cycles                      | 4000000  |
| Bending radius                                | 59 mm  |
| Traversing path                               | 10 m   |
| Traversing rate                               | 3 m/s  |
| Acceleration                                  | 10 m/s <sup>2</sup>  |
| Ambient temperature (operation)               | -25 °C ... 80 °C (cable, fixed installation)<br>-5 °C ... 80 °C (cable, flexible installation)                         |
| Special properties                            | Flexible cable conduit capable<br>Silicone-free<br>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<br>hydrolysis and microbe resistant                         |

#### Certificates / Approvals



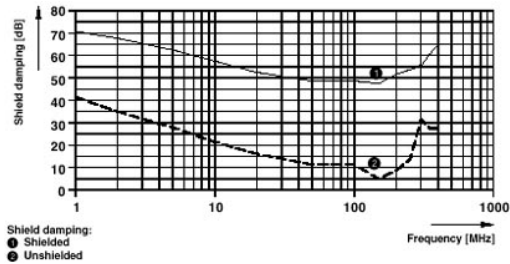
Certification

CUL Listed, GOST, UL Listed

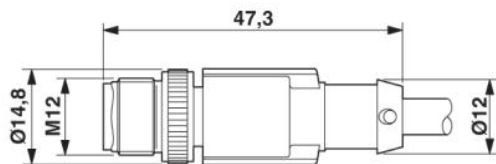


## Diagrams/Drawings

### Diagram

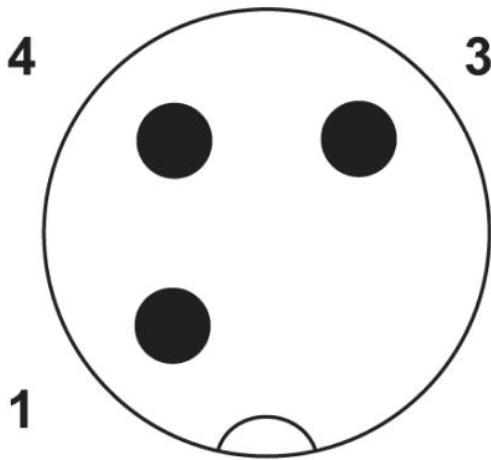


### Dimensioned drawing



M12 x 1 male connector, straight, shielded

### Schematic diagram



Pin assignment M12 plug, 3-pos., A-coded, view male side

**Address**

PHOENIX CONTACT Inc., USA  
586 Fulling Mill Road  
Middletown, PA 17057, USA  
Phone (800) 888-7388  
Fax (717) 944-1625  
<http://www.phoenixcon.com>



© 2010 Phoenix Contact  
Technical modifications reserved;