



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-5P-10,0-802/M12FS**

Order No.: 1454448

<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=1454448>

Sensor/Actuator cable, 5-position, PUR halogen-free, welding sputter-resistant, highly flexible, Gray RAL 7001, Free conductor end, on Socket, straight M12, A-coded, Cable length: 10 m

**Commercial data**

|                |   |
|----------------|---|
| GTIN (EAN)     |  |
| Note           | Made-to-order   |
| sales group    | D112  |
| Pack           | 1 pcs.  |
| Customs tariff | 85444290  |

**Product notes**WEEE/RoHS-compliant since:  
04/30/2010

<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**

|                       |        |
|-----------------------|--------|
| Rated current at 40°C | 4 A    |
| Rated voltage         | 60 V   |
| Number of positions   | 5      |
| Volume resistance     | ≤ 5 mΩ |

|                                 |  |
|---------------------------------|--|
| Insulation resistance           | ≥ 100 MΩ   |
| Length of cable                 | 10 m   |
| Ambient temperature (operation) | -25 °C ... 90 °C (Male connector / female connector) |

#### General characteristics

|                             |   |
|-----------------------------|---|
| Standards/regulations       | M12 connector IEC 61076-2-101               |
| Coding                      | A - standard                                |
| Surge voltage category      | II  |
| Pollution degree            | 3   |
| Degree of protection        | IP65/IP68/IP69K                             |
| Insertion/withdrawal cycles | ≥ 100                                       |
| 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  |

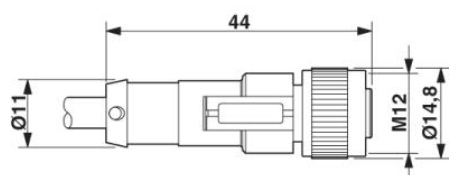
#### Conductor data

|                                    |   |
|------------------------------------|---|
| Cable type                         | PUR halogen-free, highly flexible, resistant to welding beads, gray |
| Cable type (abbreviation)          | 802   |
| Cable abbreviation                 | Li12Y11Y-HF   |
| 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 | 1.3 mm ±0.05 mm   |
| External cable diameter            | 5.1 mm ±0.2 mm  |
| Wire colors                        | Black, brown, blue, white, green/yellow                             |
| External sheath, color             | Gray RAL 7001   |
| Insulation resistance              | min. 20 MΩ*km   |
| Conductor resistance               | Approx. 53 Ω/km   |
| Nominal voltage, conductor         | 300 V   |
| Test voltage, conductor            | 1200 V  |
| Overall twist                      | 5 wires around filler to the core                                   |
| Outer sheath, material             | PUR   |

|   |   |
|---|---|
| Material conductor insulation                 | PES   |
| Conductor material                            | Bare Cu litz wires  |
| Smallest bending radius, fixed installation   | 26 mm   |
| Smallest bending radius, movable installation | 26 mm   |
| Number of bending cycles                      | 15000000  |
| Bending radius                                | 50 mm   |
| Traversing path                               | 0.9 m   |
| Traversing rate                               | 5 m/s   |
| Acceleration                                  | 30 m/s <sup>2</sup>   |
| Torsion force                                 | ± 360 °/m   |
| Ambient temperature (operation)               | -40 °C ... 90 °C (cable, fixed installation)<br>-30 °C ... 90 °C (cable, flexible installation)   |
| Special properties                            | Sheath resistant to welding beads, can be recycled, matt, without adhesion, wear-resistant, flame resistant and self-extinguishing<br>Free from silicone and cadmium<br>Free of substances which would hinder coating with paint or varnish |
| Flame resistance                              | DIN VDE 0472 part 804, test type B<br>IEC 60332-1<br>In accordance with UL FT-2   |
| Halogen-free                                  | The cable is halogen-free   |
| Resistance to oil                             | As per VDE 0472 Part 803  |
| Other resistance                              | Highly resistant to acids, alkaline solutions and solvents  |

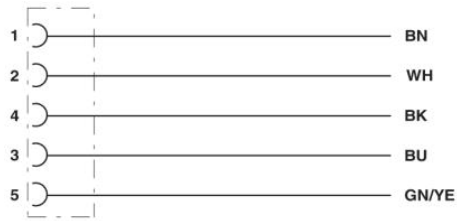
## Diagrams/Drawings

Dimensioned drawing



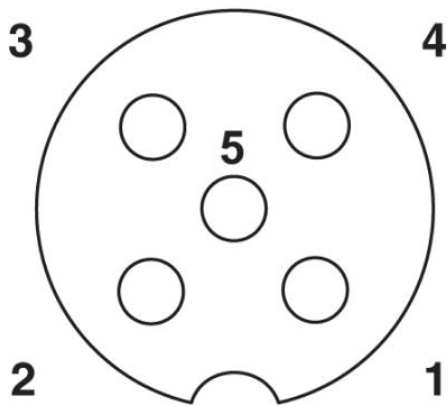
M12 x 1 female connector, straight

Circuit diagram



Contact assignment of the M12 sockets

Schematic diagram



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



© 2011 Phoenix Contact  
Technical modifications reserved;