



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!



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SAC-3P-M12MS/10,0-PUR

Order No.: 1682566

<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=1682566>

Sensor/Actuator cable, 3-position, PUR, halogen-free, Black-gray RAL 7021, Plug, straight M12, A-coded, on Free conductor end, Cable length: 10 m

Commercial data

| | |
|--------------------------|--|
| GTIN (EAN) |  4 017918 185596 |
| sales group | D110 |
| Pack | 1 pcs. |
| Customs tariff | 85444290 |
| Catalog page information | Page 76 (PC-2009) |

Product notes

WEEE/RoHS-compliant since:
12/01/2005



<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 | 250 V |
| Number of positions | 3 |
| Volume resistance | ≤ 5 mΩ |

| | |
|--|--|
| Insulation resistance | $\geq 100 \text{ M}\Omega$ |
| Length of cable | 10 m |
| Stripping length of the free conductor end | 50 mm |
| 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) |
| Status display | No |

Conductor data

| | |
|------------------------------------|---|
| Cable type | PUR halogen-free black |
| Cable type (abbreviation) | PUR |
| Cable abbreviation | Li9Y11Y |
| Conductor cross section | 0.34 mm^2 |
| AWG signal line | 22 |
| Conductor structure signal line | 42x 0.10 mm |
| Core diameter including insulation | $1.27 \text{ mm} \pm 0.02 \text{ mm}$ |
| Thickness, insulation | $\geq 0.21 \text{ mm}$ (Core insulation) |
| | $\geq 0.76 \text{ mm}$ (Outer cable sheath) |
| External cable diameter | 4.40 mm |
| Wire colors | Brown, blue, black |
| External sheath, color | Black-gray RAL 7021 |
| Insulation resistance | $\geq 100 \text{ G}\Omega \cdot \text{km}$ |
| Conductor resistance | $\leq 58 \text{ }\Omega/\text{m}$ |
| Nominal voltage, conductor | 300 V |
| Test voltage, conductor | 3000 V |

| | |
|---|---|
| Overall twist | 3 wires, twisted |
| Outer sheath, material | PUR |
| Material conductor insulation | PP |
| Conductor material | Bare Cu litz wires |
| Cable weight | 26 kg/km |
| Smallest bending radius, movable installation | 44 mm |
| Number of bending cycles | 4000000 |
| Bending radius | 44 mm |
| Traversing path | 10 m |
| Traversing rate | 3 m/s |
| Acceleration | 10 m/s ² |
| Ambient temperature (operation) | -40 °C ... 80 °C (cable, fixed installation) |
| | -5 °C ... 80 °C (cable, flexible installation) |
| Special properties | Flexible cable conduit capable |
| | Silicone-free |
| | Free of substances which would hinder coating with paint or varnish |
| Flame resistance | in accordance with DIN UL-Style 20549 |
| Halogen-free | in accordance with DIN VDE 0472 part 815 |
| Resistance to oil | in accordance with DIN EN 60811-2-1 |
| Other resistance | Highly resistant to acids, alkaline solutions and solvents |
| | hydrolysis and microbe resistant |

Certificates / Approvals

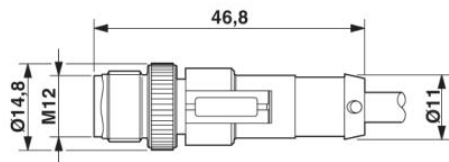


Certification

CUL Listed, GOST, UL Listed

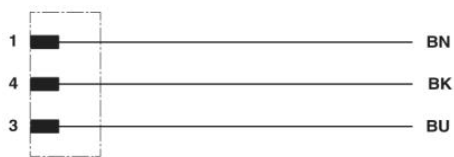
Diagrams/Drawings

Dimensioned drawing



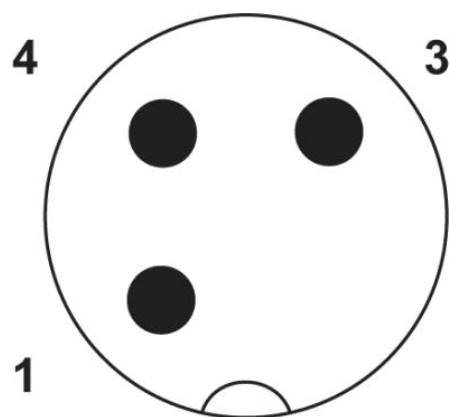
M12 x 1 male connector, straight

Circuit diagram



Contact assignment of the M12 plug

Schematic diagram



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

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