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Stocking Distributor

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Extract from the online catalog

## SAC-8P- 1,5-PUR/M12FS SH

Order No.: 1522862



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=1522862>

Sensor/Actuator cable, 8-position, PUR, halogen-free, Black-gray RAL 7021, shielded, Free conductor end, on Socket, straight M12, A-coded, Cable length: 1.5 m

| Commercial data          |                   |
|--------------------------|-------------------|
| GTIN (EAN)               | 4017918957643     |
| Note                     | Made-to-order     |
| sales group              | D117              |
| Pack                     | 1 pcs.            |
| Customs tariff           | 85444290          |
| Weight/Piece             | 0.0997 KG         |
| Catalog page information | Page 95 (PC-2009) |

### Product notes

WEEE/RoHS-compliant since:  
11/08/2006



<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          |        |
|-----------------------|--------|
| Rated current at 40°C | 2 A    |
| Rated voltage         | 30 V   |
| Number of positions   | 8      |
| Volume resistance     | ≤ 5 mΩ |

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|  |  |
|--|--|
| Insulation resistance                      | ≥ 100 MΩ   |
| Length of cable                            | 1.5 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 male connector IEC 61076-2-101          |
| Coding                      | A - standard                                |
| Surge voltage category      | II  |
| Pollution degree            | 3   |
| Degree of protection        | IP65/IP67/IP69K                             |
| Insertion/withdrawal cycles | ≥ 100                                       |
| Contact material            | CuZn  |
| 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 black                             |
| Cable type (abbreviation)          | PUR  |
| Cable abbreviation                 | Li9YVI-C-VI-11Y                                    |
| Conductor cross section            | 0.25 mm <sup>2</sup>                               |
| AWG signal line                    | 24   |
| Conductor structure signal line    | 32 x 0.10 mm                                       |
| Core diameter including insulation | 1.17 mm ±0.02 mm                                   |
| Thickness, insulation              | ≥ 0.21 mm (Core insulation)                        |
|                                    | Approx. 0.6 mm (Outer cable sheath)                |
| External cable diameter            | 5.9 mm ±0.15 mm                                    |
| Wire colors                        | Brown, white, green, yellow, gray, pink, blue, red |
| External sheath, color             | Black-gray RAL 7021                                |
| Insulation resistance              | ≥ 100 MΩ*km (at 20°C)                              |
| Conductor resistance               | max. 78 Ω/km (at 20°C)                             |
| Nominal voltage, conductor         | ≤ 300 V  |

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|   |  |
|---|--|
| Test voltage, conductor                       | ≥ 3000 V   |
| Overall twist                                 | 8 wires around filler to the core  |
| Shielding                                     | Tinned copper braided shield   |
| Optical shield covering                       | 85 %   |
| Outer sheath, material                        | PUR  |
| Material, filler                              | PE   |
| Material conductor insulation                 | PP   |
| Conductor material                            | Bare Cu litz wires   |
| Cable weight                                  | 54 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)               | -40 °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                              | 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<br>hydrolysis and microbe resistant                         |

#### Certificates / Approvals



Certification

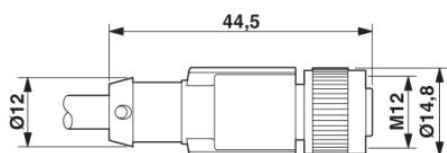
CUL Listed, UL Listed

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<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=1522862>

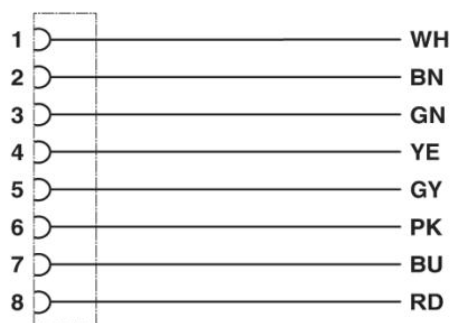
**Diagrams/Drawings**

Dimensioned drawing



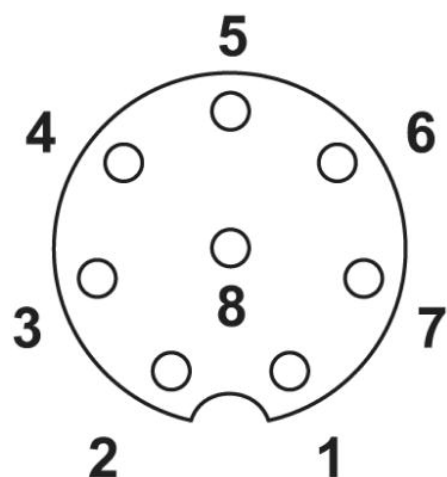
M12 x 1 female connector, straight, shielded

Circuit diagram



Contact assignment of the M12 socket

Schematic diagram



Pin assignment M12 socket, 8-pos., A-coded, view female side

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