

## Power cable - SAC-4P-M12MSL/0,6-PUR/FSL - 1425082

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Power cable, 4-position, PUR halogen-free, black RAL 9005, Plug straight M12, L-coded, on Socket straight M12, L-coded, cable length: 0.6 m, for direct current up to 16 A/63 V

### Why buy this product

- ✓ Easy and safe: 100% electrically tested plug-in components
- ✓ High-performance: DC connectors for up to 16 A and 63 V DC
- ✓ Our standard: robust halogen-free PUR cable

RoHS

### Key Commercial Data

|              |                                                                                                         |
|--------------|---------------------------------------------------------------------------------------------------------|
| Packing unit | 1 STK                                                                                                   |
| GTIN         | <br>4 055626 384207 |
| GTIN         | 4055626384207                                                                                           |

### Technical data

#### Dimensions

|                 |       |
|-----------------|-------|
| Length of cable | 0.6 m |
|-----------------|-------|

#### Ambient conditions

|                                 |                                  |
|---------------------------------|----------------------------------|
| Ambient temperature (operation) | -25 °C ... 85 °C (Plug / socket) |
| Degree of protection            | IP65                             |
|                                 | IP67                             |
|                                 | IP68                             |

#### General

|                        |           |
|------------------------|-----------|
| Rated current at 40 °C | 16 A      |
| Rated voltage          | 63 V (DC) |
|                        | 63 V DC   |
| Number of positions    | 4         |

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## Technical data

### General

|                              |                            |
|------------------------------|----------------------------|
| Insulation resistance        | $\geq 100 \text{ M}\Omega$ |
| Coding                       | L - Power                  |
| Status display               | No                         |
| Protective circuit/component | Unwired                    |
| Overvoltage category         | III                        |
| Degree of pollution          | 3                          |
| Insertion/withdrawal cycles  | $\geq 100$                 |
| Torque                       | 0.4 Nm (M12 connector)     |

### Material

|                                        |                              |
|----------------------------------------|------------------------------|
| Flammability rating according to UL 94 | V0                           |
| Contact material                       | CuSn                         |
| Contact surface material               | Ni/Au                        |
| Contact carrier material               | PA                           |
| Material of grip body                  | PA                           |
| Material, knurls                       | Zinc die-cast, nickel-plated |

### Standards and Regulations

|                                        |    |
|----------------------------------------|----|
| Flammability rating according to UL 94 | V0 |
|----------------------------------------|----|

### Cable

|                                                 |                            |
|-------------------------------------------------|----------------------------|
| Cable type                                      | PUR halogen-free black     |
| Cable type (abbreviation)                       | PUR                        |
| UL AWM style                                    | 20233 / 10493 (80°C/300 V) |
| Conductor cross section                         | 4x 2.5 mm <sup>2</sup>     |
| AWG power supply                                | 14                         |
| Conductor structure, voltage supply             | 141x 0.15 mm               |
| Core diameter including insulation              | 2.85 mm $\pm$ 0.1 mm       |
| Thickness, insulation                           | $\geq 0.31 \text{ mm}$     |
| Wire colors                                     | brown, white, blue, black  |
| External sheath, color                          | black-gray RAL 7021        |
| Outer sheath thickness                          | approx. 0.76 mm            |
| External cable diameter D                       | 8.8 mm $\pm$ 0.25 mm       |
| Minimum bending radius, fixed installation      | 5 x D                      |
| Minimum bending radius, flexible installation   | 10 x D                     |
| Number of bending cycles                        | 4000000                    |
| Minimum bending radius, drag chain applications | 10 x D                     |
| Traversing path                                 | 10 m                       |
| Traversing rate                                 | 3 m/s                      |
| Acceleration                                    | 10 m/s <sup>2</sup>        |
| Outer sheath, material                          | PUR                        |
| Material conductor insulation                   | PP                         |

## Power cable - SAC-4P-M12MSL/0,6-PUR/FSL - 1425082

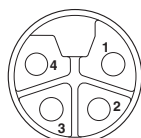
### Technical data

#### Cable

|                                 |                                                             |
|---------------------------------|-------------------------------------------------------------|
| Conductor material              | Bare Cu litz wires                                          |
| Insulation resistance           | $\geq 1 \text{ G}\Omega \cdot \text{km}$ (at 20 °C)         |
| Conductor resistance            | $\leq 8 \text{ }\Omega/\text{km}$ (at 20 °C)                |
| Nominal voltage, cable          | $\leq 300 \text{ V AC}$                                     |
| Test voltage, cable             | $\geq 3000 \text{ V AC}$ (Spark test)                       |
| Flame resistance                | According to UL 758/1581 (Cable Flame)                      |
|                                 | According to UL 758/1581 FT1                                |
|                                 | According to DIN EN 60332-1-2                               |
| Halogen-free                    | in accordance with DIN VDE 0472 part 815                    |
|                                 | in accordance with DIN EN 50267-2-1                         |
| Resistance to oil               | according to DIN EN 60811-404, 168 h at 100 °C              |
| Other resistance                | Hydrolysis and microbe resistant as per VDE 0282 section 10 |
|                                 | Low adhesion                                                |
|                                 | abrasion-resistant                                          |
|                                 | Resistant to salt water                                     |
| Ambient temperature (operation) | -50 °C ... 80 °C (cable, fixed installation)                |
|                                 | -30 °C ... 80 °C (cable, flexible installation)             |

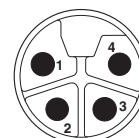
### Drawings

Schematic diagram



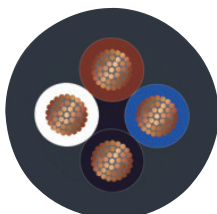
Pin assignment of M12 socket, 4-pos.

Schematic diagram



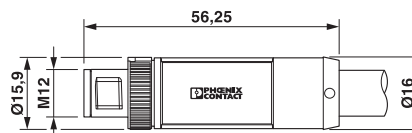
Pin assignment M12 male connector, 4-pos.

Cable cross section



PUR halogen-free black [PUR]

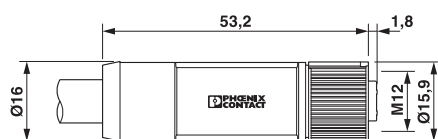
Dimensional drawing



Plug, M12 x 1, straight, shielded

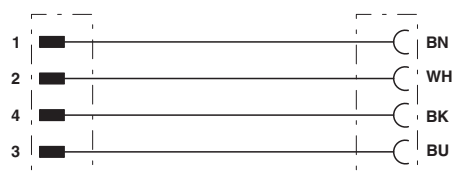
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Dimensional drawing



M12 x 1 socket, straight

Circuit diagram



Contact assignment of M12 connector/socket

### Approvals

#### Approvals

Approvals

EAC

Ex Approvals

#### Approval details

EAC



EAC-Zulassung

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PHOENIX CONTACT GmbH & Co. KG  
Flachsmarktstr. 8  
32825 Blomberg  
Germany  
Tel. +49 5235 300  
Fax +49 5235 3 41200  
<http://www.phoenixcontact.com>