

## Power cable - SAC-5P-M12MRL/ 1,5-500 FE - 1414852

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Power cable, 5-position, PVC, gray RAL 7001, Plug angled M12, L-coded, on free cable end, cable length: 1.5 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
- ✓

RoHS

### Key Commercial Data

|              |                                                                                                         |
|--------------|---------------------------------------------------------------------------------------------------------|
| Packing unit | 1 STK                                                                                                   |
| GTIN         | <br>4 055626 034843 |
| GTIN         | 4055626034843                                                                                           |

### Technical data

#### Dimensions

|                 |       |
|-----------------|-------|
| Length of cable | 1.5 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   | 5         |
| Insulation resistance | ≥ 100 MΩ  |

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## Technical data

### General

|                              |                        |
|------------------------------|------------------------|
| Coding                       | L - Power              |
| Status display               | No                     |
| Protective circuit/component | Unwired                |
| Overvoltage category         | III                    |
| Degree of pollution          | 3                      |
| Insertion/withdrawal cycles  | ≥ 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                                      | PVC                             |
| Cable type (abbreviation)                       | 500                             |
| UL AWM style                                    | 20233 / 10493 (80°C/300 V)      |
| Conductor cross section                         | 5x 2.5 mm <sup>2</sup>          |
| AWG power supply                                | 14                              |
| Conductor structure, voltage supply             | 141x 0.15 mm                    |
| Core diameter including insulation              | 3 mm ±0.1 mm                    |
| Thickness, insulation                           | ≥ 0.36 mm                       |
| Wire colors                                     | Brown, white, blue, black, gray |
| External sheath, color                          | gray RAL 7001                   |
| Outer sheath thickness                          | approx. 0.76 mm                 |
| External cable diameter D                       | 10.1 mm ±0,3 mm                 |
| Minimum bending radius, fixed installation      | 5 x D                           |
| Minimum bending radius, flexible installation   | 10 x D                          |
| Number of bending cycles                        | 2000000                         |
| 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>             |
| Cable weight                                    | 205 kg/km                       |
| Outer sheath, material                          | PVC                             |
| Material conductor insulation                   | PVC                             |

# Power cable - SAC-5P-M12MRL/ 1,5-500 FE - 1414852

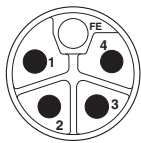
## Technical data

### Cable

|                                 |                                                 |
|---------------------------------|-------------------------------------------------|
| Conductor material              | Bare Cu litz wires                              |
| Insulation resistance           | ≥ 100 MΩ*km (at 20 °C)                          |
| Conductor resistance            | ≤ 8 Ω/km (at 20 °C)                             |
| Nominal voltage, cable          | ≤ 300 V AC                                      |
| Test voltage, cable             | ≥ 3000 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                   |
| Resistance to oil               | According to DIN EN 60811-404, 168 h at 60 °C   |
| Ambient temperature (operation) | -40 °C ... 80 °C (cable, fixed installation)    |
|                                 | -20 °C ... 80 °C (cable, flexible installation) |

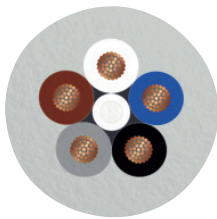
## Drawings

Schematic diagram



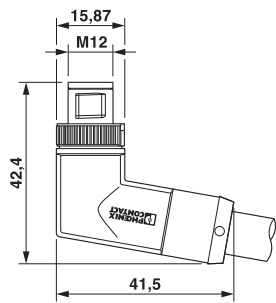
Pin assignment of M12 connector, 5-pos., L-coded, pin side view

Cable cross section



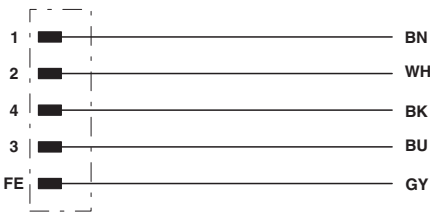
PVC [500]

Dimensional drawing



M12 x 1 male plug, angled

Circuit diagram



Contact assignment of the M12 plug

## Approvals

### Approvals

Approvals

EAC

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### Approvals

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Ex Approvals

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### Approval details

|     |                                                                                   |               |
|-----|-----------------------------------------------------------------------------------|---------------|
| EAC |  | EAC-Zulassung |
|-----|-----------------------------------------------------------------------------------|---------------|

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