

## Power cable - SAC-4P-10,0-PVC/M12FRL - 1425100

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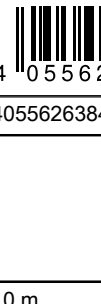


Power cable, 4-position, PVC, black-gray RAL 7021, Socket angled M12, L-coded, on free cable end, cable length: 10 m, for direct current up to 16 A/63 V

### Your advantages

- ✓ Easy and safe: 100% electrically tested plug-in components
- ✓ High-performance: DC connectors for up to 16 A and 63 V DC
- ✓ Protection against mismatching, thanks to special L-coding

### Key Commercial Data

|              |  |
|--------------|--|
| Packing unit | 1 pc   |
| GTIN         | <br>4 055626 384382 |
| GTIN         | 4055626384382  |

### Technical data

#### Dimensions

|                 |      |
|-----------------|------|
| Length of cable | 10 m |
|-----------------|------|

#### Ambient conditions

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

#### General

|                       |                               |
|-----------------------|-------------------------------|
| Rated current at 40°C | 16 A                          |
| Rated voltage         | 63 V DC                       |
| Number of positions   | 4                             |
| Color handle area     | black                         |
| Insulation resistance | ≥ 100 MΩ                      |
| Coding                | L - Power                     |
| Standards/regulations | M12 connector IEC 61076-2-111 |

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## Technical data

### General

|                              |                        |
|------------------------------|------------------------|
| 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                       | CuZn                         |
| Contact surface material               | Ni/Au                        |
| Contact carrier material               | PA                           |
| Material of grip body                  | PP                           |
| Material, knurls                       | Zinc die-cast, nickel-plated |

### Standards and Regulations

|  |                 |
|--|-----------------|
| Standard designation                   | M12 connector   |
| Standards/regulations                  | IEC 61076-2-111 |
| Flammability rating according to UL 94 | V0              |

### Cable

|   |                            |
|---|----------------------------|
| Cable type                                      | PVC                        |
| Cable type (abbreviation)                       | PVC                        |
| 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              | 3 mm ±0.1 mm               |
| Thickness, insulation                           | ≥ 0.36 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                       | 9.5 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>        |
| Outer sheath, material                          | PVC                        |
| Material conductor insulation                   | PVC                        |

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### 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) |

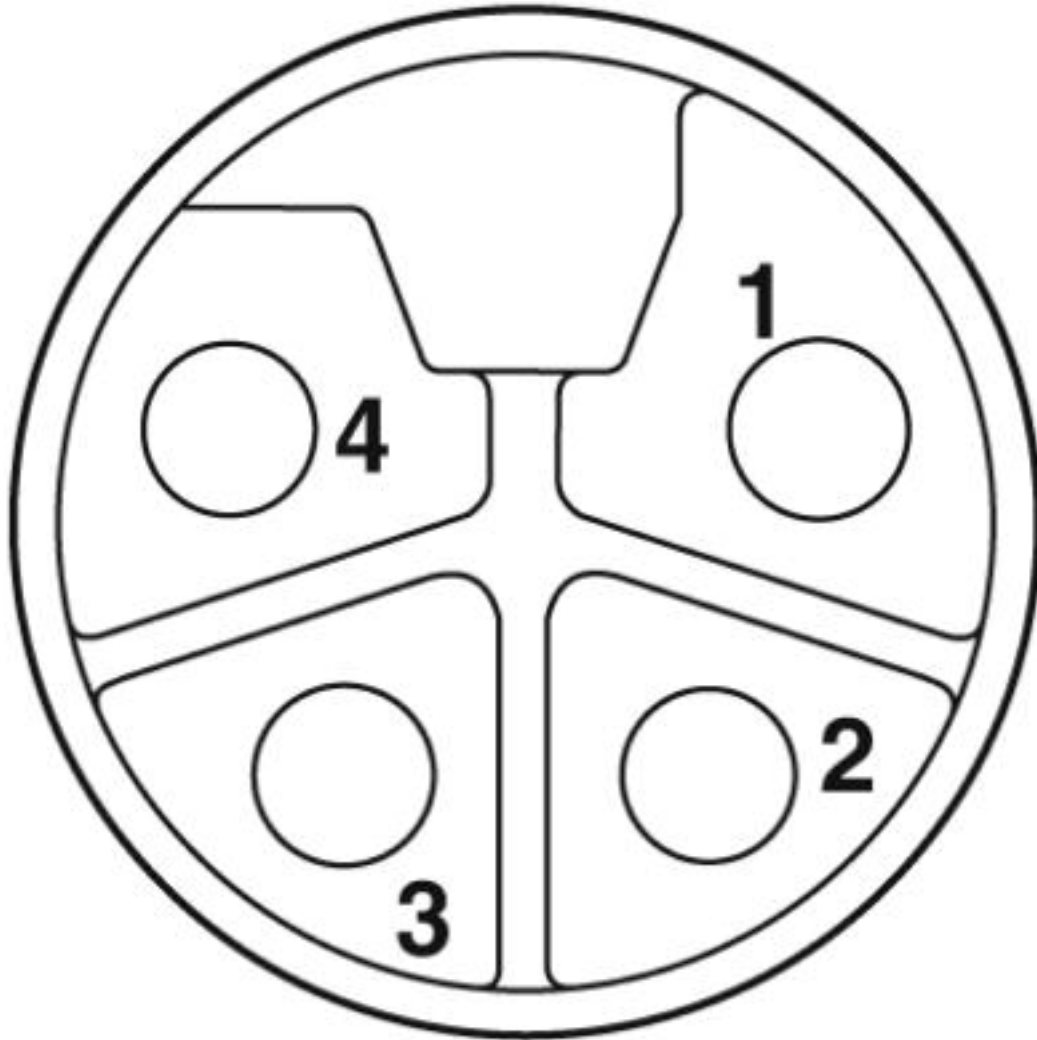
#### Environmental Product Compliance

|            |   |
|------------|---|
| REACH SVHC | Lead 7439-92-1  |
| China RoHS | Environmentally Friendly Use Period = 50  |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

### Drawings

## Power cable - SAC-4P-10,0-PVC/M12FRL - 1425100

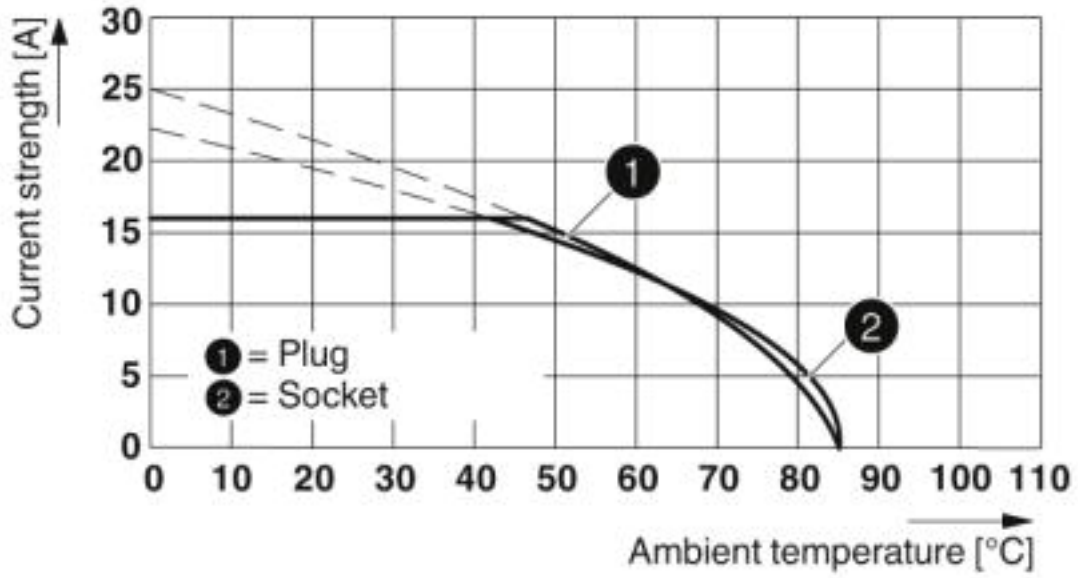
Schematic diagram



Pin assignment of M12 socket, 4-pos.

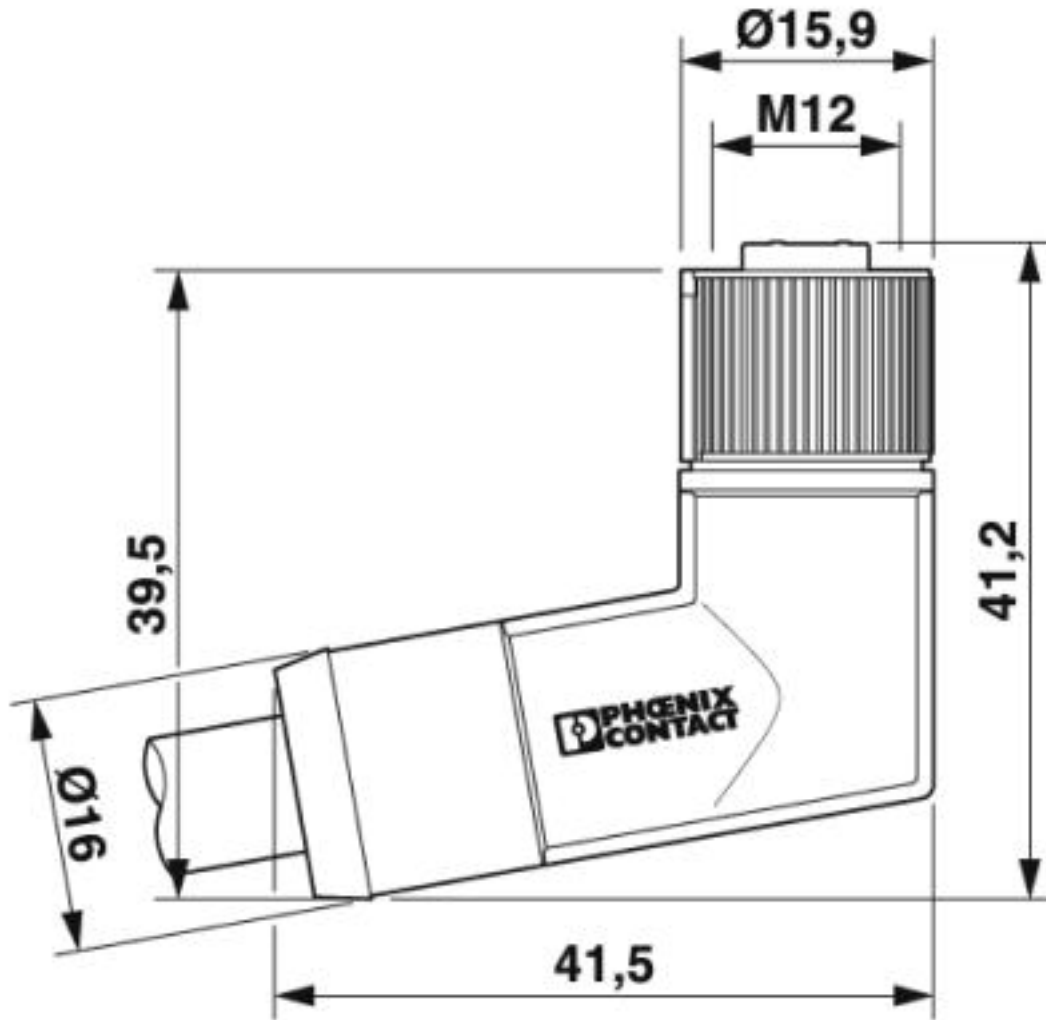
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Diagram



# Power cable - SAC-4P-10,0-PVC/M12FRL - 1425100

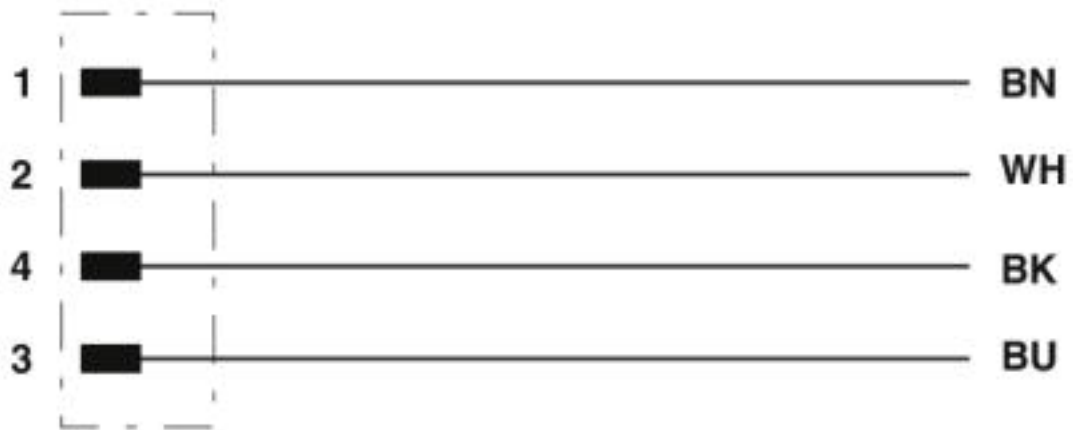
Dimensional drawing



M12 x 1 socket, angled

## Power cable - SAC-4P-10,0-PVC/M12FRL - 1425100

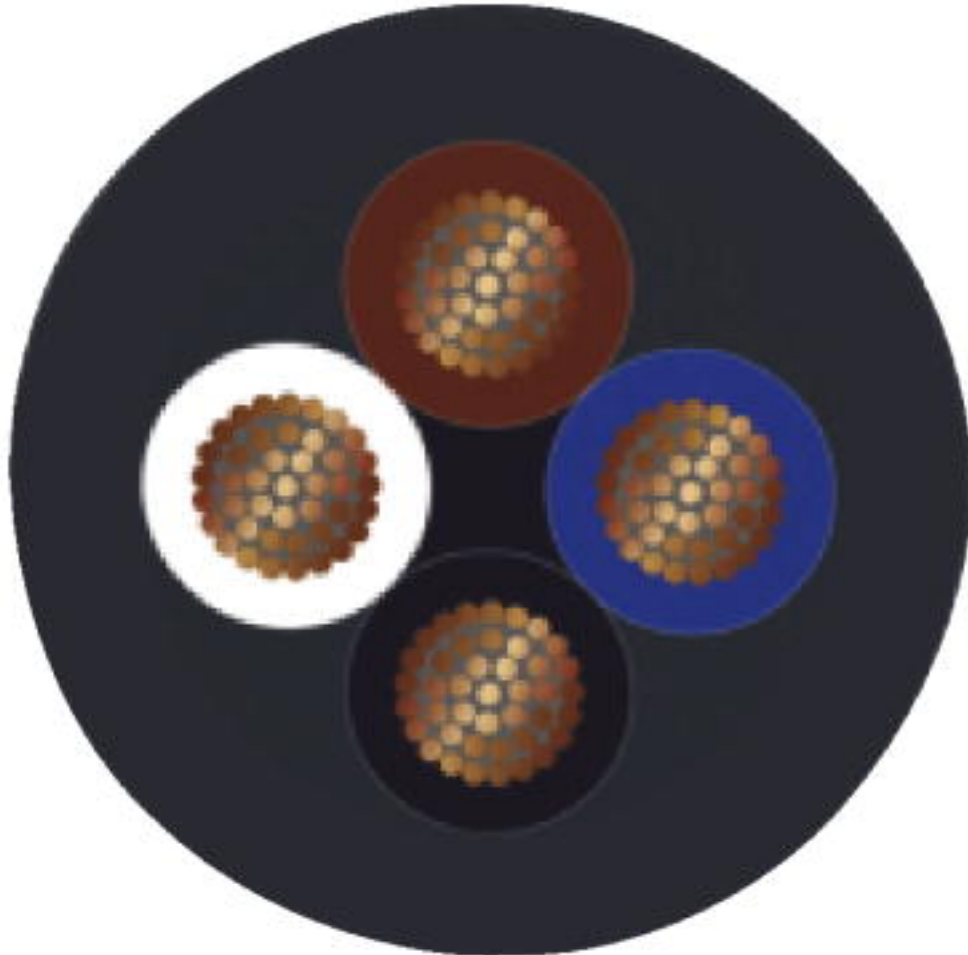
Circuit diagram



Contact assignment of the M12 socket

# Power cable - SAC-4P-10,0-PVC/M12FRL - 1425100

Cable cross section



PVC [PVC]

## Approvals

Approvals

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Approvals

UL Listed / cUL Listed / EAC / cULus Listed

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Ex Approvals


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Approval details




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## Approvals

|                            |   |   |         |
|----------------------------|---|---|---------|
| UL Listed                  |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | E468743 |
| Nominal voltage UN         |   | 63 V  |         |
| Nominal current IN         |   | 16 A  |         |
| mm <sup>2</sup> /AWG/kcmil |   | 14  |         |

|                            |   |   |         |
|----------------------------|---|---|---------|
| cUL Listed                 |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | E468743 |
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|     |   |                          |
|-----|---|--------------------------|
| EAC |  | RU C-<br>DE.BL08.B.00286 |
|-----|---|--------------------------|

|              |   |
|--------------|---|
| cULus Listed |  |
|--------------|---|

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