

## Power cable - SAC-4P-M12MRL/ 5,0-PVC - 1425091

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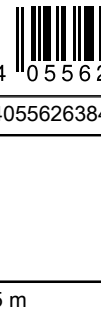


Power cable, 4-position, PVC, black-gray RAL 7021, Plug angled M12, coding: L, on free cable end, cable length: 5 m, for direct current up to 16 A/63 V

### 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 384290 |
| GTIN         | 4055626384290  |

### Technical data

#### Dimensions

|                 |     |
|-----------------|-----|
| Length of cable | 5 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 |

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## Technical data

### General

|                              |                               |
|------------------------------|-------------------------------|
| Standards/regulations        | M12 connector IEC 61076-2-111 |
| 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

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

### Cable

|   |                            |
|---|----------------------------|
| 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                        |
| Conductor material                              | Bare Cu litz wires         |
| Insulation resistance                           | ≥ 100 MΩ*km (at 20 °C)     |

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### Technical data

#### Cable

|                                 |   |
|---------------------------------|---|
| 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) |

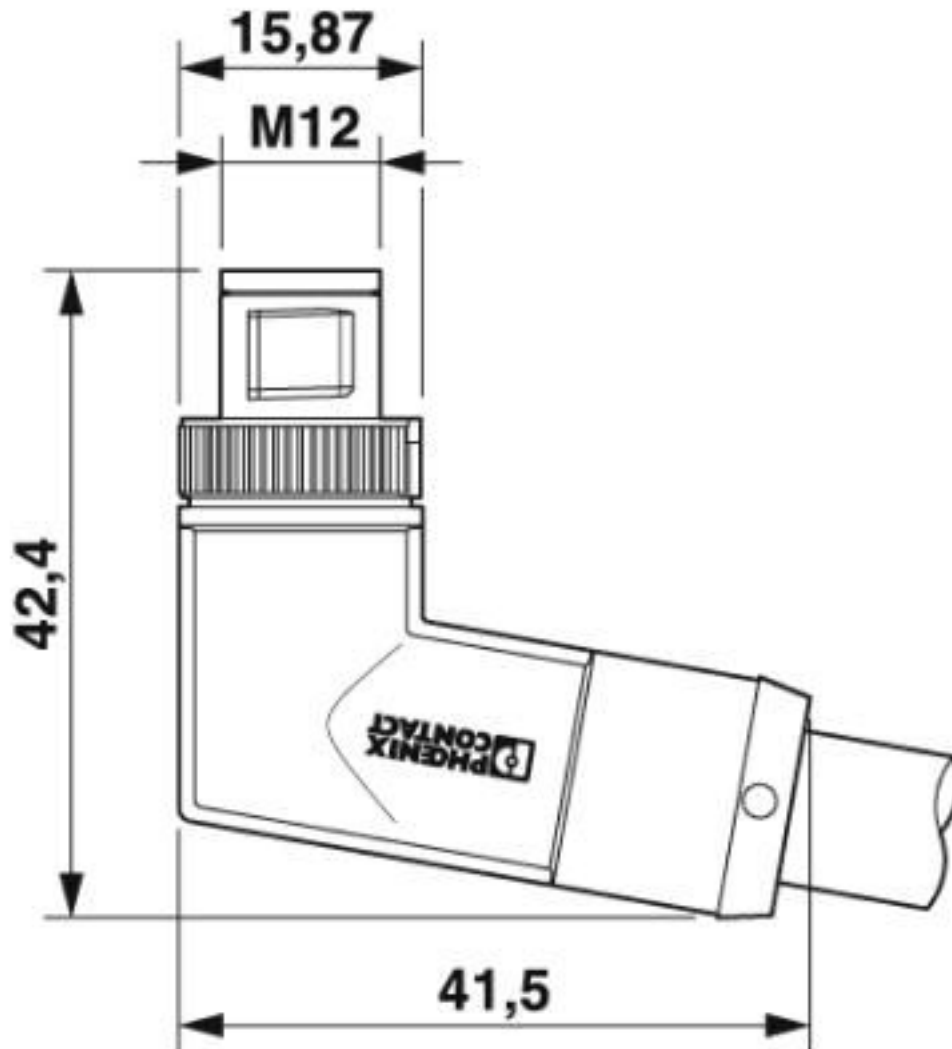
#### Environmental Product Compliance

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

#### Drawings

# Power cable - SAC-4P-M12MRL/ 5,0-PVC - 1425091

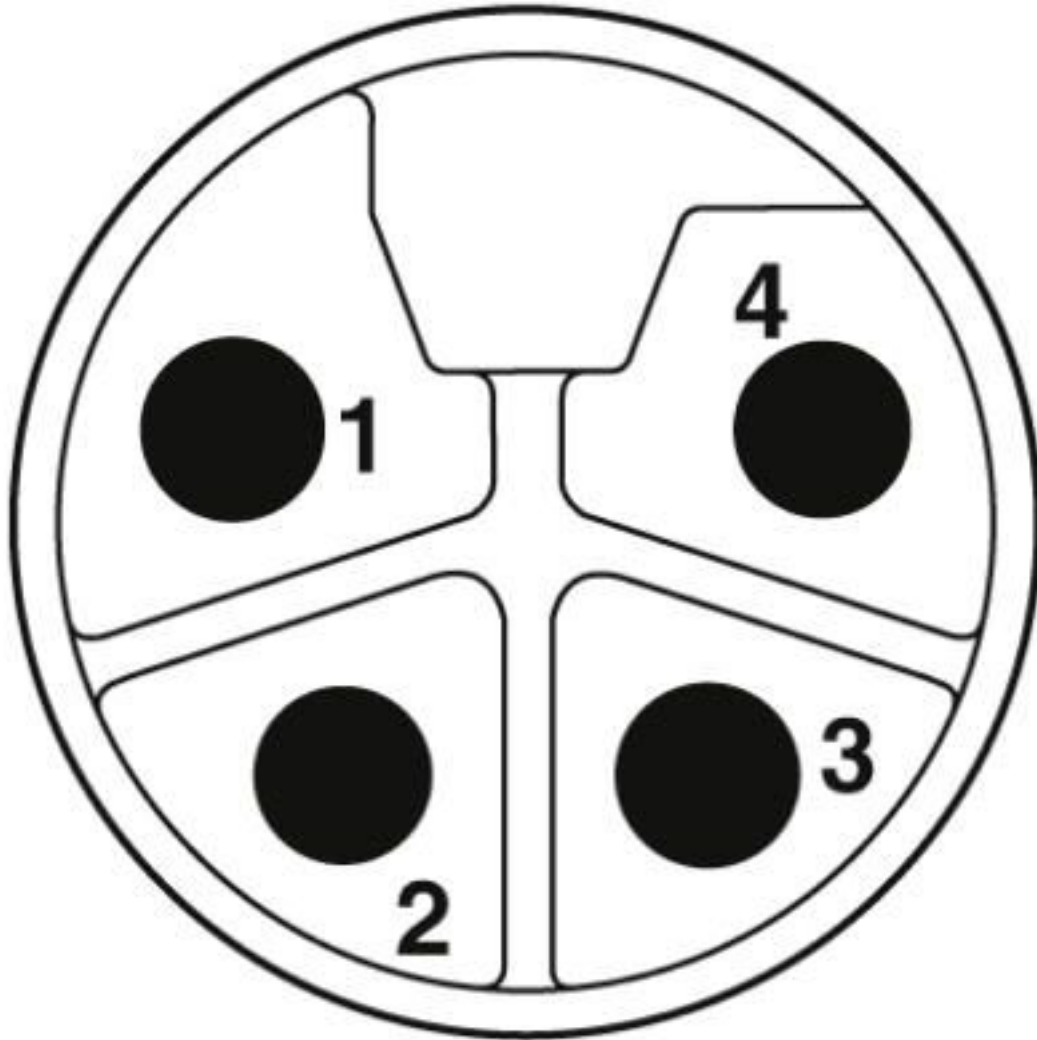
Dimensional drawing



M12 x 1 male plug, angled

## Power cable - SAC-4P-M12MRL/ 5,0-PVC - 1425091

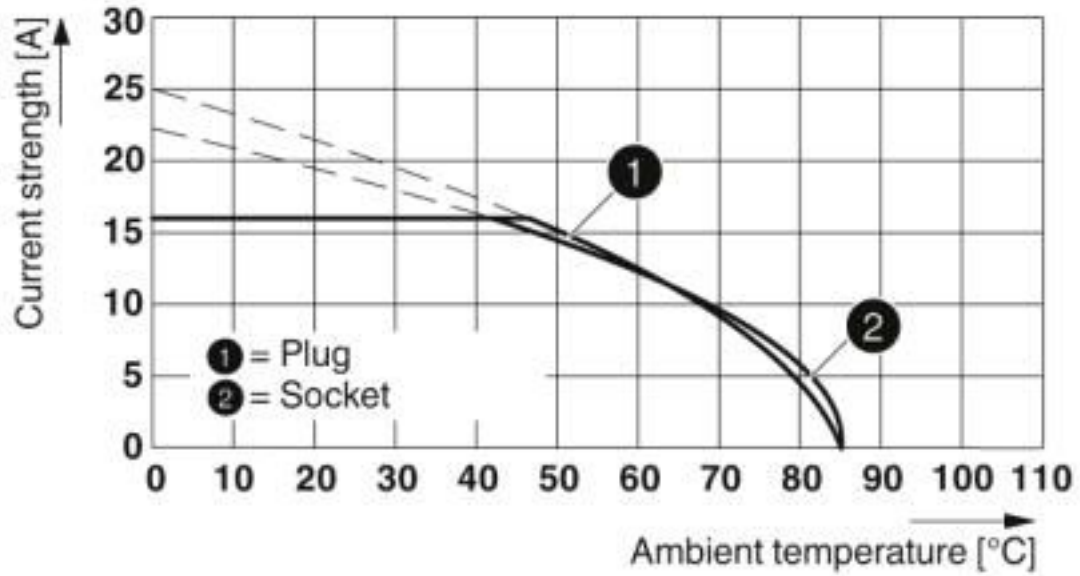
Schematic diagram



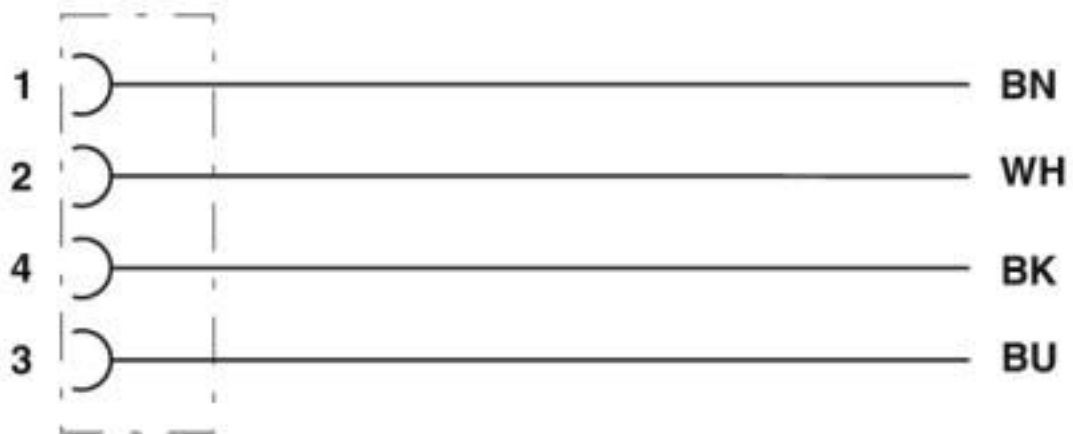
Pin assignment M12 male connector, 4-pos.

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Diagram



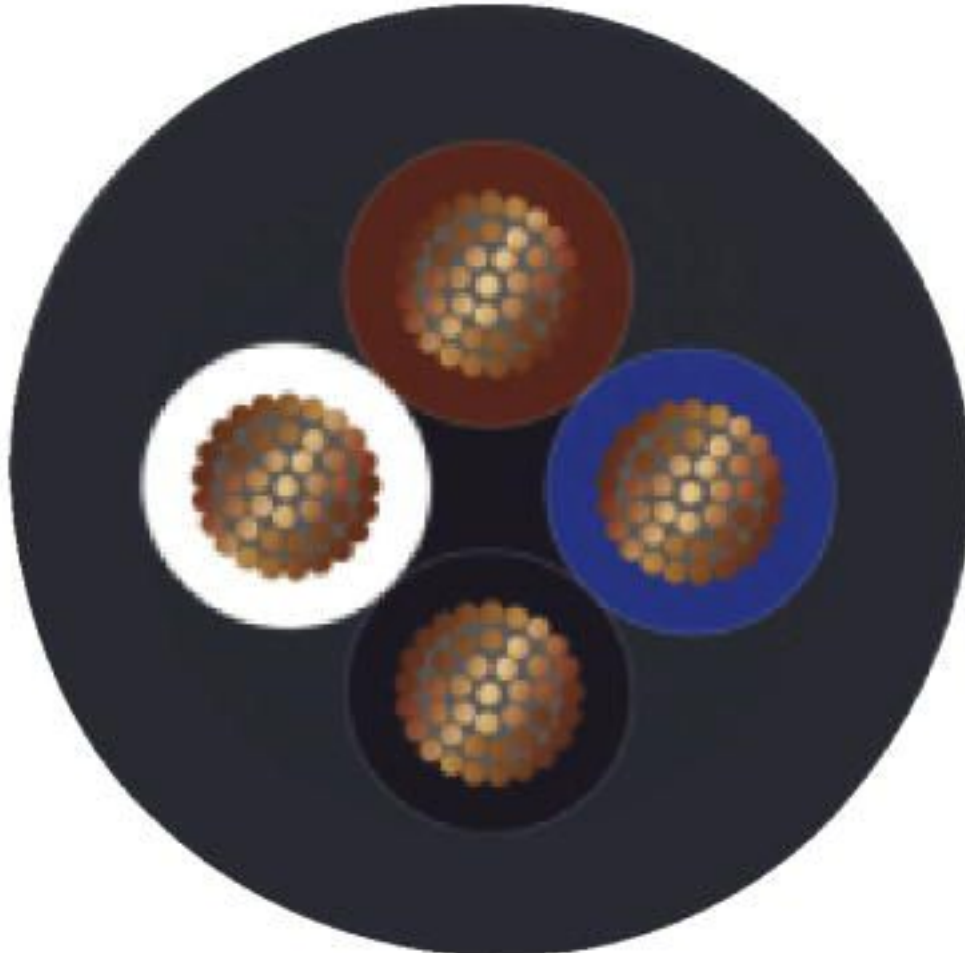
Circuit diagram



Contact assignment of the M12 plug

# Power cable - SAC-4P-M12MRL/ 5,0-PVC - 1425091

Cable cross section



PVC black [PVC]

## Classifications

eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 27060311 |
| eCl@ss 5.1    | 27061801 |
| eCl@ss 6.0    | 27279200 |
| eCl@ss 7.0    | 27279218 |
| eCl@ss 9.0    | 27060311 |

ETIM

|          |          |
|----------|----------|
| ETIM 5.0 | EC001855 |
| ETIM 6.0 | EC001855 |
| ETIM 7.0 | EC001855 |

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## Approvals


### Approvals


#### Approvals

UL Listed / cUL Listed / EAC-RoHS / EAC / cULus Listed

#### Ex Approvals


### Approval details

|                            |   |   |         |
|----------------------------|---|---|---------|
| 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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| mm <sup>2</sup> /AWG/kcmil | 14  |   |         |

|          |   |                          |
|----------|---|--------------------------|
| EAC-RoHS |  | RU D-<br>DE.HB35.B.00387 |
|----------|---|--------------------------|

|     |   |                          |
|-----|---|--------------------------|
| EAC |  | RU C-<br>DE.BL08.B.00286 |
|-----|---|--------------------------|

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

## Accessories

### Accessories

Protective cap



## Power cable - SAC-4P-M12MRL/ 5,0-PVC - 1425091

### Accessories

Sealing cap - PROT-M12 FS - 1560251



M12 sealing cap for unoccupied M12 plugs of the sensor/actuator cable, flush-type plugs and I/O devices in the field

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