

Power cable - SAC-4P-10,0-PUR/M12FRT - 1408830

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Power cable, 4-position, PUR halogen-free, black-gray RAL 7021, Socket angled M12, on free cable end, cable length: 10 m, For direct current up to 12 A/63 V

Your advantages

- ✓ Easy and safe: 100% electrically tested plug-in components
- ✓ High-performance: DC connectors for up to 12 A and 63 V DC
- ✓ Protection against incorrect connection using special T-coding
- ✓ Our standard: robust halogen-free PUR cable

Key Commercial Data

| | |
|--------------|---|
| Packing unit | 1 pc |
| GTIN |  4 046356 839808 |
| GTIN | 4046356839808 |

Technical data

Dimensions

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

Ambient conditions

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

General

| | |
|-----------------------|-------------------------------|
| Rated current at 40°C | 12 A |
| Rated voltage | 63 V DC |
| Number of positions | 4 |
| Insulation resistance | ≥ 100 MΩ |
| Coding | T 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 | PUR halogen-free black |
| Cable type (abbreviation) | PUR |
| Cable abbreviation | Li9YV1-11Y |
| UL AWM style | 20233 / 10493 (80°C/300 V) |
| Conductor cross section | 4x 1.5 mm ² |
| AWG power supply | 16 |
| Conductor structure, voltage supply | 78x 0.15 mm |
| Core diameter including insulation | 2.35 mm ±0.05 mm |
| Thickness, insulation | ≥ 0.25 mm |
| Wire colors | brown, white, blue, black |
| Overall twist | 4 wires, twisted |
| Length of twist, overall twist | 90 mm |
| External sheath, color | black-gray RAL 7021 |
| Outer sheath thickness | approx. 1.3 mm |
| External cable diameter D | 8.4 mm ±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 |

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Cable

| | |
|---------------------------------|---|
| Acceleration | 10 m/s ² |
| Cable weight | 109 kg/km |
| Outer sheath, material | PUR |
| Material conductor insulation | PP |
| Conductor material | Bare Cu litz wires |
| Insulation resistance | ≥ 1 GΩ*km (at 20 °C) |
| Conductor resistance | ≤ 13 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 |
| 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 60811-2-1, 168 h at 100°C |
| | According to UL 758, 168 h at 60°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) |

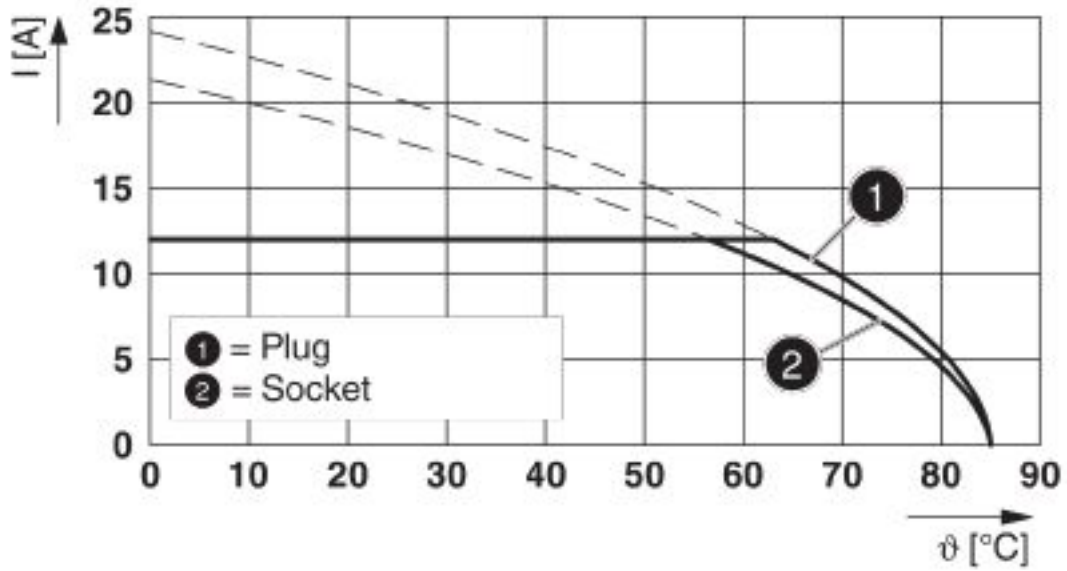
Environmental Product Compliance

| | |
|------------|---|
| | 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-PUR/M12FRT - 1408830

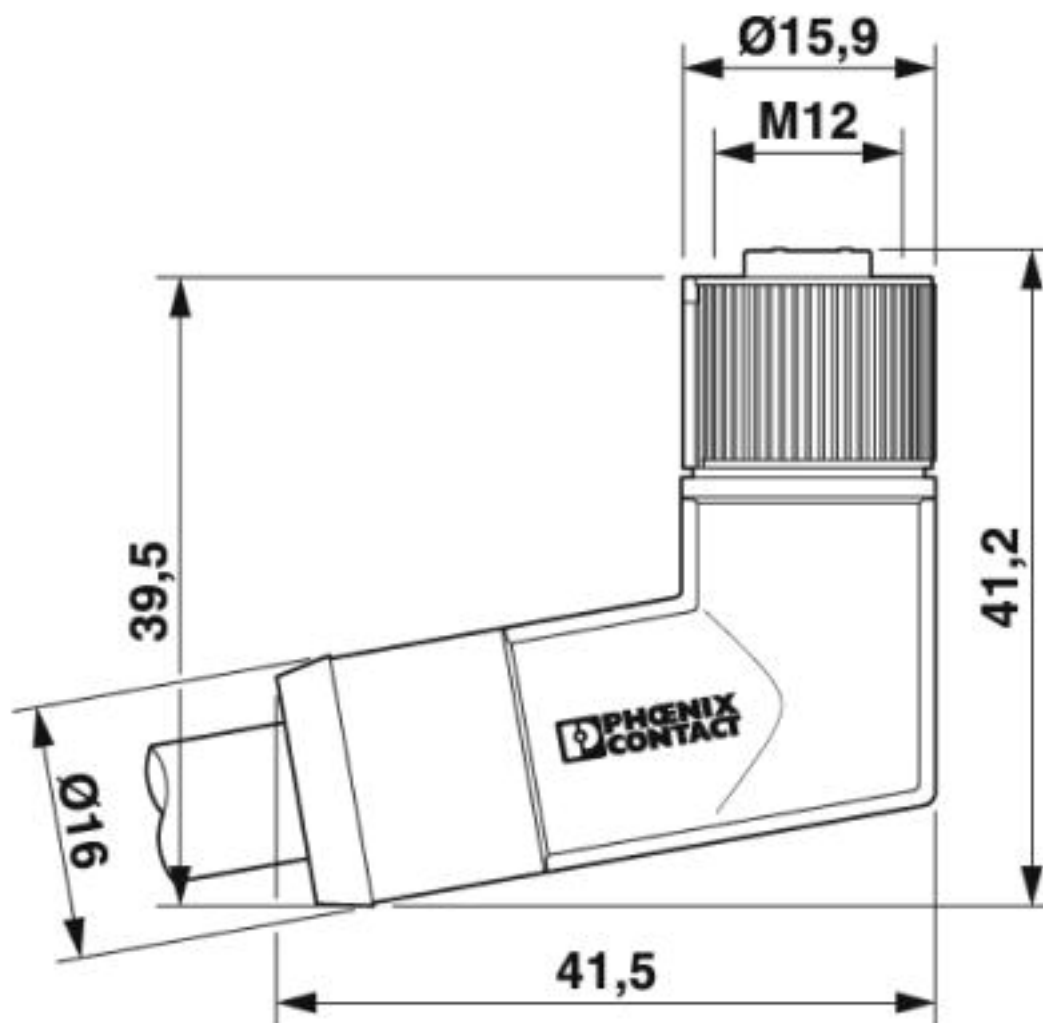
Diagram



Current carrying capacity

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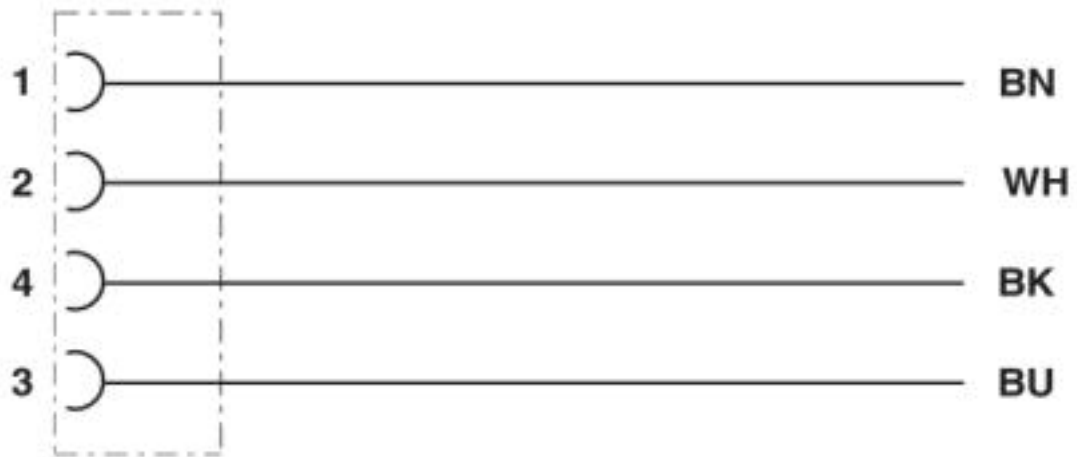
Dimensional drawing



M12 x 1 socket, angled

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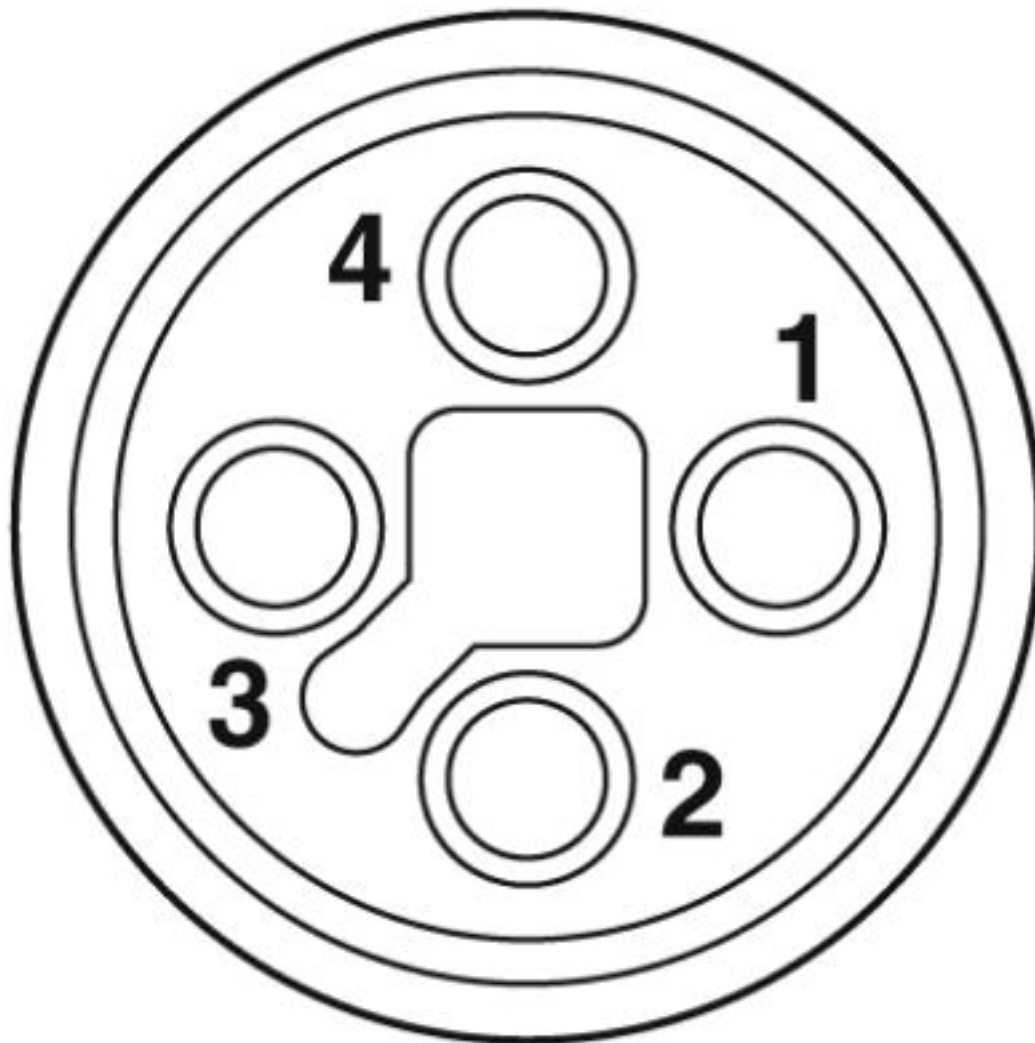
Circuit diagram



Contact assignment of the M12 socket

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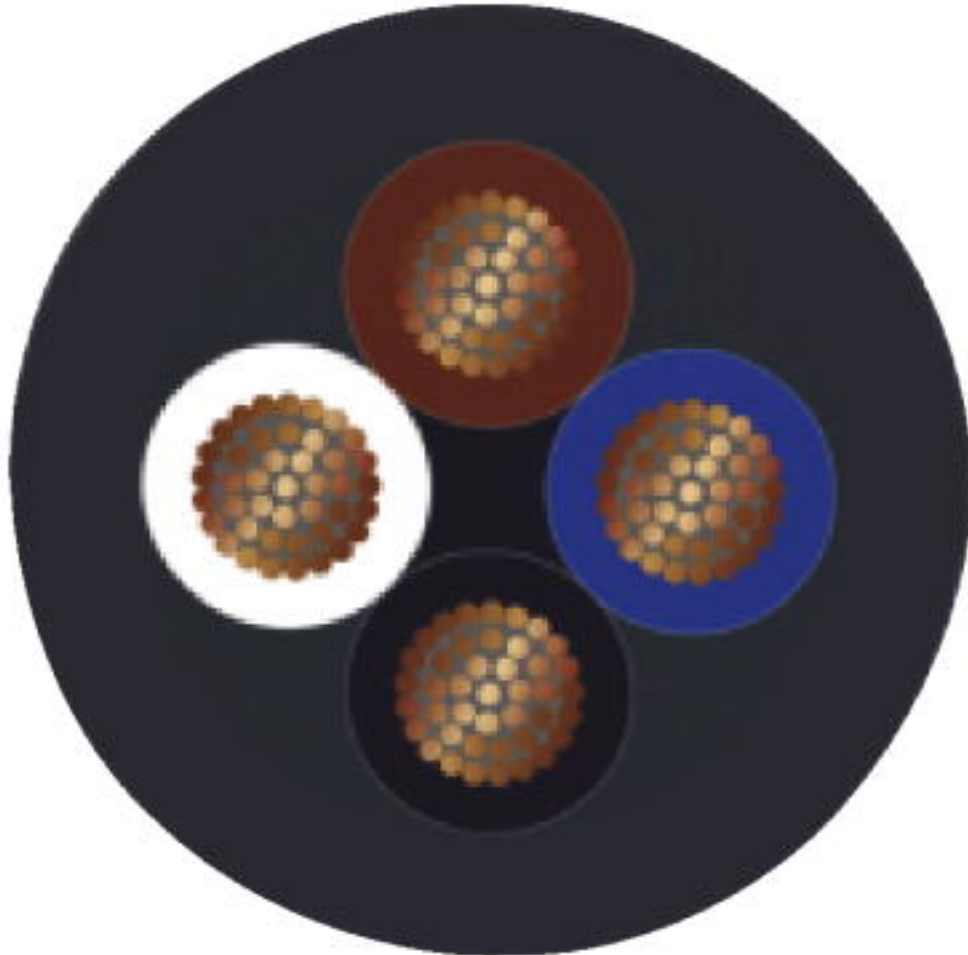
Schematic diagram



Pin assignment of M12 socket, 4-pos., T-coded, socket side view

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Cable cross section



PUR halogen-free black [PUR]

Approvals

Approvals

Approvals

UL Listed / cUL Listed / cULus Listed

Ex Approvals

Approval details

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Approvals

| | | | |
|----------------------------|--|---|---------|
| UL Listed | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | E468743 |
| Nominal voltage UN | | 63 V | |
| Nominal current IN | | 12 A | |
| mm ² /AWG/kcmil | | 16 | |

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

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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>