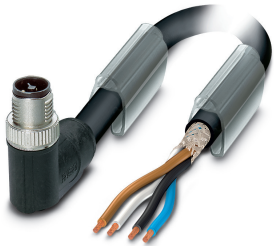


Power cable - SAC-4P-M12MRT/ 5,0-PUR SH - 1424126

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Power cable, 4-position, PUR halogen-free, black RAL 9005, shielded (Advanced Shielding Technology), Plug angled M12, coding: T, on free cable end, cable length: 5 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
- ✓ Shield power reliably – 360° shielding to reduce electromagnetic loads
- ✓ Our standard: robust halogen-free PUR cable



Key Commercial Data

| | |
|--------------------------------------|---------------|
| Packing unit | 1 pc |
| GTIN | |
| GTIN | 4046356693301 |
| Weight per Piece (excluding packing) | 780.000 g |
| Custom tariff number | 85444290 |
| Country of origin | Germany |

Technical data

Dimensions

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

Ambient conditions

| | |
|---------------------------------|----------------------------------|
| Ambient temperature (operation) | -25 °C ... 85 °C (Plug / socket) |
| | -25 °C ... 85 °C (Plug / socket) |

Power cable - SAC-4P-M12MRT/ 5,0-PUR SH - 1424126

Technical data

Ambient conditions

| | |
|----------------------|------|
| Degree of protection | IP65 |
| | IP67 |

General

| | |
|------------------------------|-------------------------------|
| Rated current at 40°C | 12 A |
| Rated voltage | 63 V DC |
| Number of positions | 4 |
| Color handle area | black |
| Insulation resistance | ≥ 100 MΩ |
| Coding | T power |
| 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

| | |
|------------------------------------|-----------------------------|
| Cable type | PUR halogen-free black |
| Cable type (abbreviation) | PUR |
| Cable abbreviation | LS9YC11Y-OB |
| UL AWM style | 20233 / 10493 (80°C/300 V) |
| Conductor cross section | 4x 1.5 mm ² |
| AWG power supply | 16 |
| Core diameter including insulation | 2.4 mm |
| Thickness, insulation | 1.2 mm (Outer cable sheath) |

Power cable - SAC-4P-M12MRT/ 5,0-PUR SH - 1424126

Technical data

Cable

| | |
|---|--|
| Wire colors | brown, white, blue, black |
| Overall twist | 4 wires optimally twisted |
| Shielding | Tinned copper-braided shield, approx. 85% covering |
| External sheath, color | black RAL 9005 |
| External cable diameter D | 9.7 mm ±0.3 mm |
| Smallest bending radius, fixed installation | 49 mm |
| Smallest bending radius, movable installation | 73 mm |
| Number of bending cycles | 4000000 |
| Bending radius | 97 mm |
| Traversing path | 10 m |
| Traversing rate | 3 m/s |
| Acceleration | 10 m/s ² |
| Torsion force | ± 25 °/m |
| Cable weight | 133 kg/km |
| Outer sheath, material | PUR |
| Material conductor insulation | PP |
| Conductor material | Bare Cu litz wires |
| Insulation resistance | ≥ 10 MΩ*km (at 20 °C) |
| Conductor resistance | ≤ 13.3 Ω/km (at 20 °C) |
| Nominal voltage, cable | 300 V AC |
| Test voltage, cable | 1500 V AC (5 min.) |
| Flame resistance | according to EN 60332-1-2 |
| | in acc. to UL 1581 VW1 |
| Halogen-free | in accordance with DIN VDE 0472 part 815 |
| | according to IEC 60754-1 |
| Resistance to oil | in accordance with DIN EN 60811-2-1 |
| | According to DIN EN 50363-10-2 |
| Ambient temperature (operation) | -40 °C ... 90 °C (cable, fixed installation) |
| | -30 °C ... 90 °C (cable, flexible installation) |

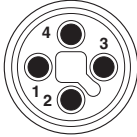
Environmental Product Compliance

| | |
|------------|---|
| REACH SVHC | DOTe 15571-58-1 |
| | Lead 7439-92-1 |
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
| | No hazardous substances above threshold values |

Drawings

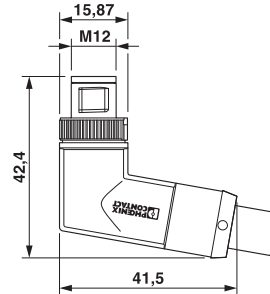
Power cable - SAC-4P-M12MRT/ 5,0-PUR SH - 1424126

Schematic diagram



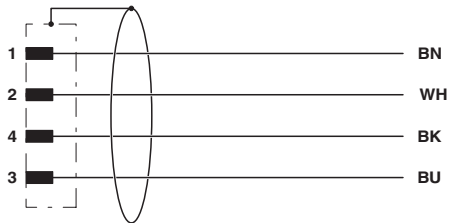
Pin assignment for M12 plug, 4-pos., T-coded, view of plug side

Dimensional drawing



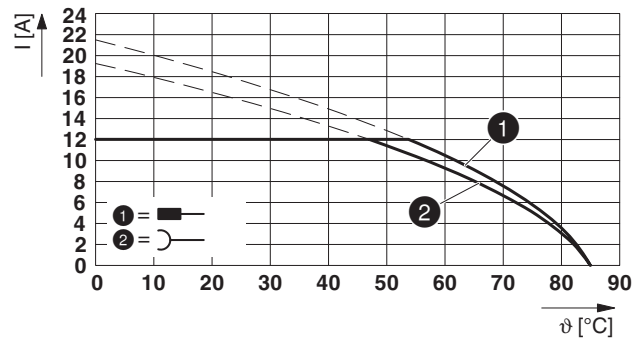
M12 x 1 male plug, angled

Circuit diagram



Contact assignment of the M12 plug

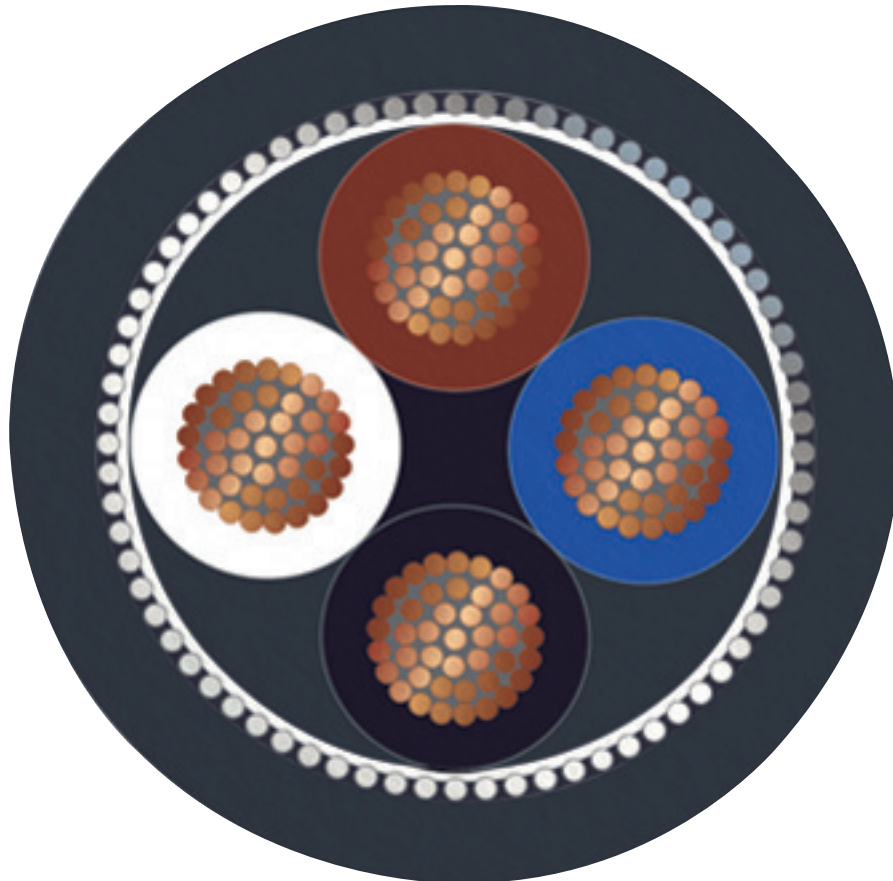
Diagram



Current carrying capacity

Power cable - SAC-4P-M12MRT/ 5,0-PUR SH - 1424126

Cable cross section



PUR halogen-free black [PUR]

Classifications

eCl@ss

| | |
|---------------|----------|
| eCl@ss 10.0.1 | 27060311 |
| eCl@ss 11.0 | 27060311 |
| eCl@ss 4.0 | 27140800 |
| eCl@ss 4.1 | 27140800 |
| eCl@ss 5.0 | 27143400 |
| eCl@ss 5.1 | 27143400 |
| eCl@ss 6.0 | 27279200 |
| eCl@ss 7.0 | 27279218 |
| eCl@ss 9.0 | 27060311 |

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Classifications

ETIM

| | |
|----------|----------|
| ETIM 3.0 | EC002061 |
| ETIM 4.0 | EC001855 |
| ETIM 6.0 | EC001855 |
| ETIM 7.0 | EC001855 |

UNSPSC

| | |
|---------------|----------|
| UNSPSC 6.01 | 31251501 |
| UNSPSC 7.0901 | 31251501 |
| UNSPSC 11 | 31251501 |
| UNSPSC 12.01 | 31251501 |
| UNSPSC 13.2 | 31251501 |
| UNSPSC 19.0 | 31251501 |
| UNSPSC 20.0 | 31251501 |
| UNSPSC 21.0 | 31251501 |

Approvals

Approvals

Approvals

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

Ex Approvals

Approval details

| | | | |
|----------------------------|---|---|---------|
| 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 | | |

Power cable - SAC-4P-M12MRT/ 5,0-PUR SH - 1424126

Approvals

| | | | |
|----------------------------|--|---|---------|
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| Nominal current IN | | 12 A | |
| mm ² /AWG/kcmil | | 16 | |

| | | |
|----------|--|--------------------------|
| EAC-RoHS | | RU D- DE.HB35.B.00387 |
|----------|--|--------------------------|

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

Accessories

Accessories

Protective cap

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

Screwdriver tools

Tool - SAC BIT M12-D16 - 1200305



Nut for assembling sensor/actuator cables with M12 connector and M12 connectors for assembly, knurl diameter: 16 mm, for 4 mm hexagonal drive