

Power cable - SAC-4P-MST/ 1,5-PUR/FST SCO - 1413211

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Power cable, 4-position, PUR halogen-free, black-gray RAL 7021, Plug straight M12 SPEEDCON, T-coded, on Socket straight M12 SPEEDCON, T-coded, Cable length: 1.5 m, for direct current up to 12 A/60 V

Why buy this product

- Easy and safe: 100% electrically tested plug-in components
- High-performance: DC connectors for up to 12 A and 60 V DC
- Protection against incorrect connection using special T-coding
- Save time, thanks to installation with SPEEDCON fast locking system
- Our standard: robust halogen-free PUR cable



Key Commercial Data

| | |
|--------------------------------------|----------|
| Packing unit | 1 STK |
| Minimum order quantity | 50 STK |
| Weight per Piece (excluding packing) | 200.0 g |
| Custom tariff number | 85444290 |
| Country of origin | Germany |

Technical data

Environmental Product Compliance

| | |
|------------|-----------------|
| REACH SVHC | DOTe 15571-58-1 |
|------------|-----------------|

Dimensions

| | |
|-----------------|-------|
| Length of cable | 1.5 m |
|-----------------|-------|

Ambient conditions

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

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Technical data

General

| | |
|------------------------------|---------|
| Rated current at 40°C | 12 A |
| Rated voltage | 60 V |
| Number of positions | 4 |
| Insulation resistance | ≥ 10 GΩ |
| Coding | T power |
| Status display | No |
| Protective circuit/component | Unwired |
| Overvoltage category | III |
| Degree of pollution | 3 |
| Insertion/withdrawal cycles | > 100 |

Material

| | |
|--|---|
| Flammability rating according to UL 94 | V0 |
| Contact material | CuZn |
| Contact surface material | Au |
| Contact carrier material | PA |
| Material of grip body | TPU, hardly inflammable, self-extinguishing |
| Material, knurls | Zinc die-cast, nickel-plated |

Standards and Regulations

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

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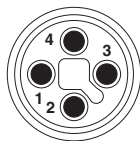
Technical data

Cable

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

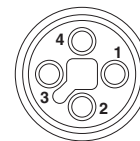
Drawings

Schematic diagram



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

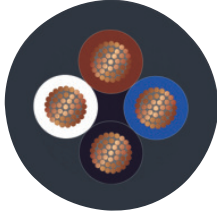
Schematic diagram



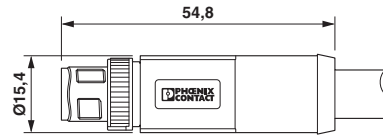
Pin assignment of M12 socket, 4-pos., T-coded, socket side view

Power cable - SAC-4P-MST/ 1,5-PUR/FST SCO - 1413211

Cable cross section



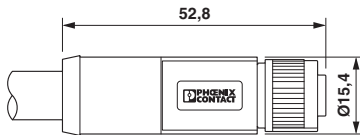
Dimensional drawing



PUR halogen-free black [PUR]

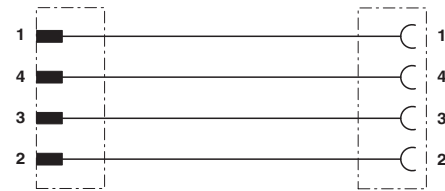
M12 x 1 plug, straight

Dimensional drawing



M12 x 1 socket, straight

Circuit diagram



Contact assignment of the M12 connector and the M12 socket

Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 5.1 | 27143423 |
| eCl@ss 6.0 | 27143423 |
| eCl@ss 8.0 | 27279218 |
| eCl@ss 9.0 | 27060311 |

ETIM

| | |
|----------|----------|
| ETIM 4.0 | EC001855 |
| ETIM 5.0 | EC001855 |

Approvals

Approvals

Approvals

UL Listed / cUL Listed / cULus Listed


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Approvals

Ex Approvals

Approvals submitted

Approval details

| | |
|---|------|
| UL Listed  | |
| mm ² /AWG/kcmil | 16 |
| Nominal current I _N | 12 A |
| Nominal voltage U _N | 63 V |

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