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Especialistas en Automatización

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Power cable - SAC-4P-FRT/10,0-PUR SH SCO - 1424128

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Power cable, 4-position, PUR halogen-free, black RAL 9005, shielded, free cable end, on Socket angled M12 SPEEDCON, T-coded, Cable length: 10 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
- Shield power reliably – 360° shielding to reduce electromagnetic loads
- Save time, thanks to installation with SPEEDCON fast locking system
- Our standard: robust halogen-free PUR cable



Key Commercial Data

| | |
|--------------|---|
| Packing unit | 1 STK |
| GTIN |  4 046356 693233 |

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 | 12 A |
| Rated voltage | 60 V |
| Rated surge voltage | 1.5 kV |
| Number of positions | 4 |
| Insulation resistance | ≤ 10 GΩ |

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Technical data

General

| | |
|------------------------------|------------------------|
| Coding | T power |
| Standards/regulations | M12 connector |
| 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 | Au |
| Material of grip body | TPU, hardly inflammable, self-extinguishing |
| Material, knurls | Zinc die-cast, nickel-plated |

Standards and Regulations

| | |
|--|---------------|
| Standard designation | M12 connector |
| Flammability rating according to UL 94 | V0 |

Cable

| | |
|---|--|
| Cable type | PUR halogen-free black |
| Cable type (abbreviation) | PUR |
| Cable abbreviation | LS9YC11Y-OB |
| 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) |
| 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 |
| Outer sheath, material | PUR |

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Technical data

Cable

| | |
|---------------------------------|---|
| 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 | According to VDE 0282-13 Appendix C |
| 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) |

Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 4.0 | 27140815 |
| eCl@ss 4.1 | 27140815 |
| eCl@ss 5.0 | 27143423 |
| eCl@ss 5.1 | 27143423 |
| eCl@ss 6.0 | 27143423 |
| eCl@ss 7.0 | 27449001 |
| eCl@ss 8.0 | 27279218 |

ETIM

| | |
|----------|----------|
| ETIM 3.0 | EC002061 |
| ETIM 4.0 | EC001855 |
| ETIM 5.0 | EC001855 |

UNSPSC

| | |
|---------------|----------|
| UNSPSC 6.01 | 31251501 |
| UNSPSC 7.0901 | 31251501 |
| UNSPSC 11 | 31251501 |
| UNSPSC 12.01 | 31251501 |
| UNSPSC 13.2 | 31251501 |

Approvals

Approvals

Power cable - SAC-4P-FRT/10,0-PUR SH SCO - 1424128

Approvals

Approvals

UL Listed / cUL Listed / cULus Listed

Ex Approvals

Approvals submitted

Approval details

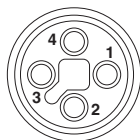
| | |
|--------------------------------|------|
| UL Listed | |
| mm ² /AWG/kcmil | 16 |
| Nominal current I _N | 12 A |
| Nominal voltage U _N | 63 V |

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

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

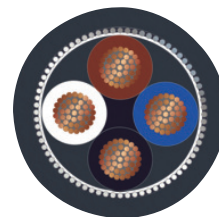
Drawings

Schematic diagram



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

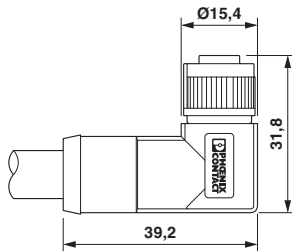
Cable cross section



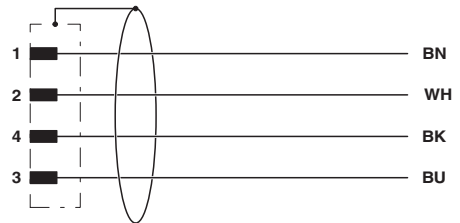
PUR halogen-free black [PUR]

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Dimensional drawing



Circuit diagram



M12 x 1 socket, angled

Contact assignment of the M12 plug

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