

Power cable - SAC-6P- 5,0-PUR/M12FRM PE SH - 1414917

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Power cable, 6-position, PUR halogen-free, orange RAL 2003, shielded (Advanced Shielding Technology), Socket angled M12, coding: M, on free cable end, cable length: 5 m, For AC current up to 8 A/690 V

Your advantages

- ✓ Easy and safe: 100% electrically tested plug-in components
- ✓ High-performance: AC connectors for up to 8 A and 630 V AC
- ✓ Protection against mismatching, thanks to special M-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 |  4 055626 035451 |
| GTIN | 4055626035451 |
| Weight per Piece (excluding packing) | 889.850 g |
| Custom tariff number | 85444290 |
| Country of origin | Poland |
| Note | Made to Order (non-returnable) |

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) |
| Degree of protection | IP65 |
| | IP67 (without preloading, as additional test in accordance with IEC 60529) |

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Technical data

General

| | |
|------------------------------|-------------------------------|
| Rated current at 40°C | 8 A |
| Rated voltage | 690 V AC |
| Number of positions | 6 |
| Insulation resistance | ≥ 100 MΩ |
| Coding | M - Power |
| Standards/regulations | M12 connector IEC 61076-2-111 |
| Status display | No |
| Protective circuit/component | unwired |
| Overvoltage category | III |
| Degree of pollution | 3 |
| 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 |
| UL AWM style | 20234 / 10492 (80°C/1000 V) |
| Conductor cross section | 6x 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 | ≥ 0.36 mm |
| Wire colors | black 1, black 2, black 3, black 4, black 5, green/yellow |
| External sheath, color | orange RAL 2003 |
| Outer sheath thickness | approx. 1.15 mm |
| External cable diameter D | 10.4 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 |

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Technical data

Cable

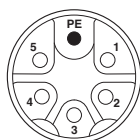
| | |
|---------------------------------|---|
| Traversing rate | 3 m/s |
| Acceleration | 10 m/s ² |
| Cable weight | 144 kg/km |
| Outer sheath, material | PUR |
| Material conductor insulation | PP |
| Conductor material | Bare Cu litz wires |
| Insulation resistance | ≥ 1 GΩ*km (at 20 °C) |
| Conductor resistance | ≤ 15 Ω/m (at 20 °C) |
| Nominal voltage, cable | ≤ 1000 V AC |
| Test voltage, cable | ≥ 10000 V AC (Spark test) |
| Other resistance | Hydrolysis and microbe resistant as per VDE 0282 section 10 |
| | Low adhesion |
| | abrasion-resistant |
| | Resistant to salt water |
| Ambient temperature (operation) | -30 °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" |

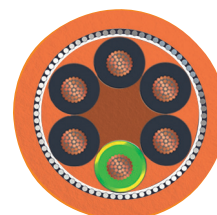
Drawings

Schematic diagram



Pin assignment of M12 socket, 6-pos., M-coded, socket side view

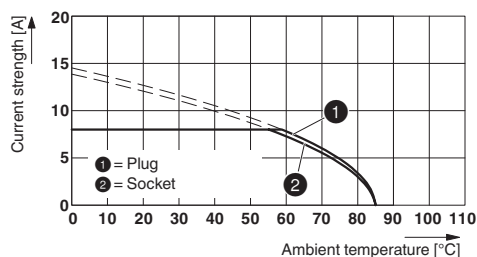
Cable cross section



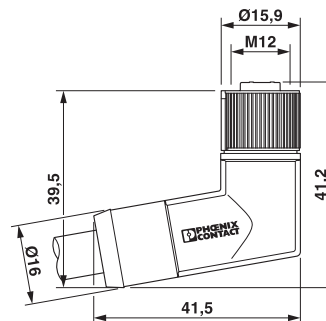
PUR halogen-free black [PUR]

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Diagram



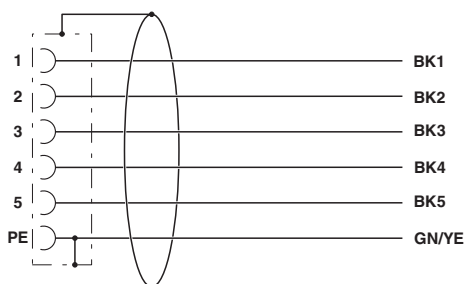
Dimensional drawing



Current carrying capacity

M12 x 1 socket, angled

Circuit diagram



Contact assignment of the M12 socket

Classifications

eCl@ss

| | |
|---------------|----------|
| eCl@ss 10.0.1 | 27440203 |
| eCl@ss 11.0 | 27440203 |
| eCl@ss 5.1 | 27061801 |
| eCl@ss 6.0 | 27279200 |
| eCl@ss 7.0 | 27279218 |
| eCl@ss 8.0 | 27440203 |
| eCl@ss 9.0 | 27440203 |

ETIM

| | |
|----------|----------|
| ETIM 5.0 | EC002311 |
| ETIM 6.0 | EC002311 |
| ETIM 7.0 | EC002311 |

Approvals

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Approvals

Approvals

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

Ex Approvals

Approval details

| | | | |
|----------------------------|--|---|---------|
| UL Listed | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | E468743 |
| Nominal voltage UN | | 600 V | |
| Nominal current IN | | 10 A | |
| mm ² /AWG/kcmil | | 16 | |

| | | | |
|----------------------------|--|---|---------|
| cUL Listed | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | E468743 |
| Nominal voltage UN | | 600 V | |
| Nominal current IN | | 10 A | |
| mm ² /AWG/kcmil | | 16 | |

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

| | | |
|-----|--|--------------------------|
| EAC | | RU C- DE.BL08.B.00286 |
|-----|--|--------------------------|

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

Accessories

Accessories

Screwdriver tools

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Accessories

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

Screw plug - PROT M12 MS PWR - 1092802



An M12 screw plug for the unoccupied M12 females of the M12 POWER connectors, boxes, and flush-type connectors
