

Power cable - SAC-4P-M12MSS/ 1,5-PUR PE SH - 1424104

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Power cable, 4-position, PUR halogen-free, orange RAL 2003, shielded (Advanced Shielding Technology), Plug straight M12, S-coded, on free cable end, cable length: 1.5 m, for AC current up to 12 A/690 V

Your advantages

- ✓ Easy and safe: 100% electrically tested plug-in components
- ✓ High-performance: AC connectors for up to 12 A and 690 V AC
- ✓ Protection against incorrect connection using special S-coding
- ✓ Our standard: robust halogen-free PUR cable
- ✓ Shield power reliably – 360° shielding to reduce electromagnetic loads

Key Commercial Data

| | |
|--------------|---|
| Packing unit | 1 pc |
| GTIN |  4 046356 693097 |
| GTIN | 4046356693097 |

Technical data

Dimensions

| | |
|-----------------|-------|
| Length of cable | 1.5 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 | 690 V AC |
| Number of positions | 4 |
| Color handle area | black |
| Insulation resistance | ≥ 100 MΩ |
| Coding | S power |

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Technical data

General

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

| | |
|--|-----------------|
| Standard designation | M12 connector |
| Standards/regulations | IEC 61076-2-111 |
| Flammability rating according to UL 94 | V0 |

Cable

| | |
|---|--|
| Cable type | PUR halogen-free orange shielded |
| Cable type (abbreviation) | PUR |
| Cable abbreviation | 9YSLC11Y-JZ |
| UL AWM style | 20234 / 10492 (80°C/1000 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 | ≤ 2.5 mm |
| Thickness, insulation | 0.4 mm |
| Wire colors | Black 1, black 2, black 3, green/yellow |
| Overall twist | 4 wires optimally twisted |
| Shielding | Tinned copper-braided shield, approx. 85% covering |
| External sheath, color | orange RAL 2003 |
| Outer sheath thickness | 1.2 mm |
| External cable diameter D | 9.7 mm ±0,3 mm |
| Minimum bending radius, fixed installation | 5 x D |
| Minimum bending radius, flexible installation | 7.5 x D |
| Number of bending cycles | 4000000 |
| Minimum bending radius, drag chain applications | 10 x D |
| Traversing path | 10 m |

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Cable

| | |
|---------------------------------|---|
| Traversing rate | 3 m/s |
| Acceleration | 10 m/s ² |
| Torsion force | ± 25 °/m |
| 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 | 1000 V AC |
| Test voltage, cable | 4260 V AC (5 min.) |
| Flame resistance | according to EN 60332-1-2 |
| | in acc. to UL 1581 VW1 |
| | According to CSA C 22.2 No. 210-05 FT1 |
| 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 |
| Other resistance | UV resistant |
| | Low adhesion |
| Ambient temperature (operation) | -40 °C ... 90 °C (cable, fixed installation) |
| | -30 °C ... 90 °C (cable, flexible installation) |

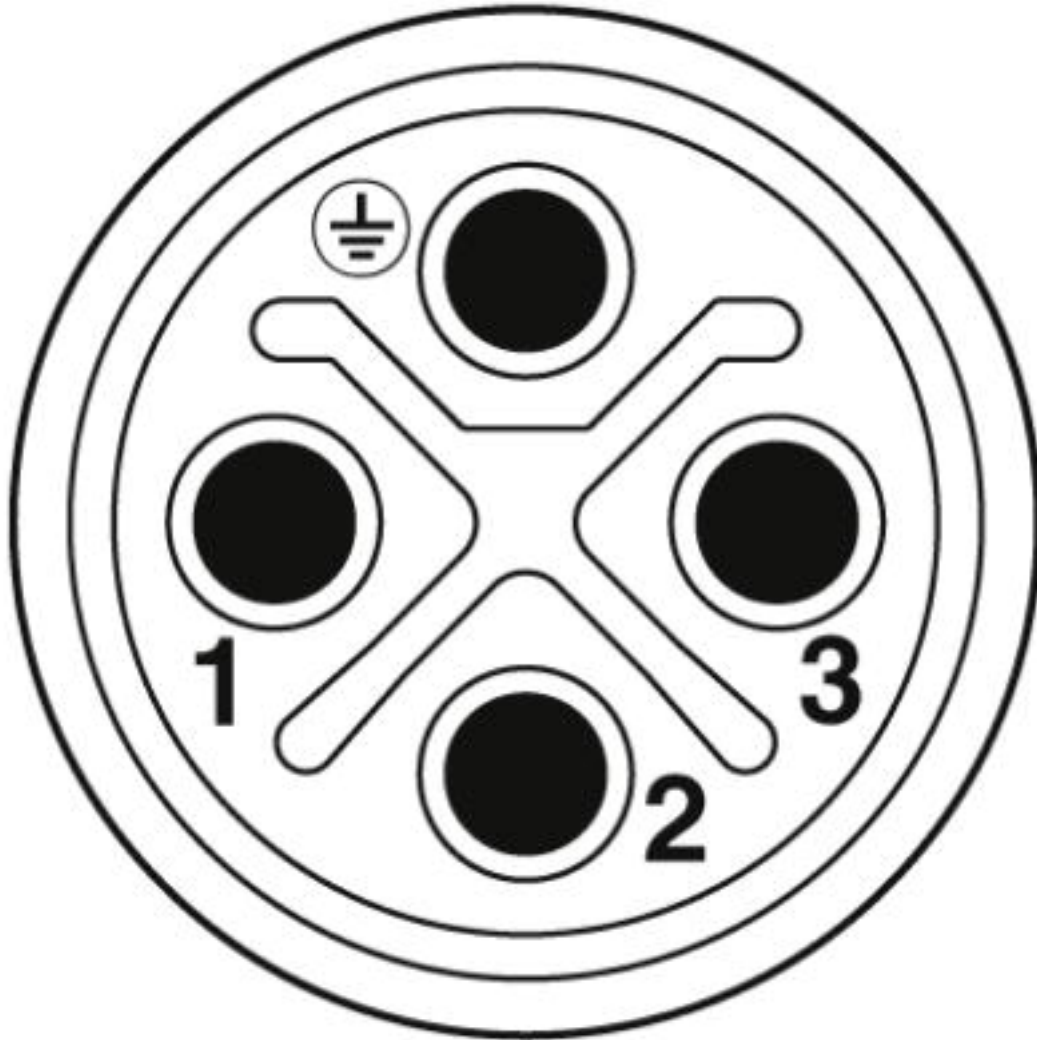
Environmental Product Compliance

| | |
|------------|---|
| REACH SVHC | 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-M12MSS/ 1,5-PUR PE SH - 1424104

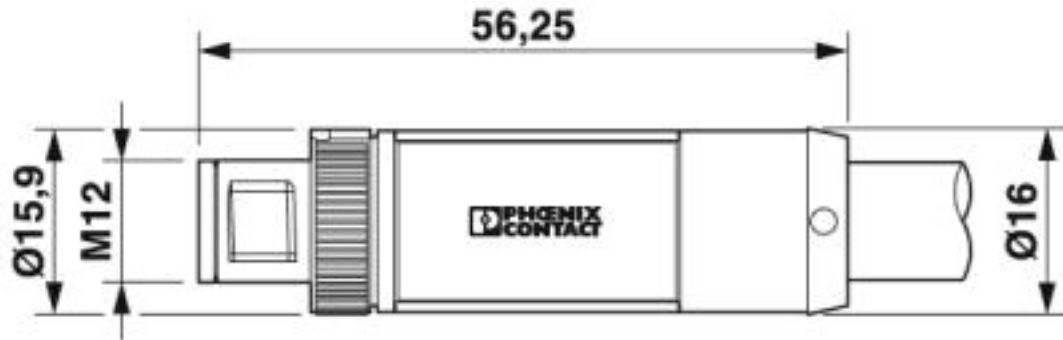
Schematic diagram



M12 plug pin assignment, 4-pos., S-coded, plug side view

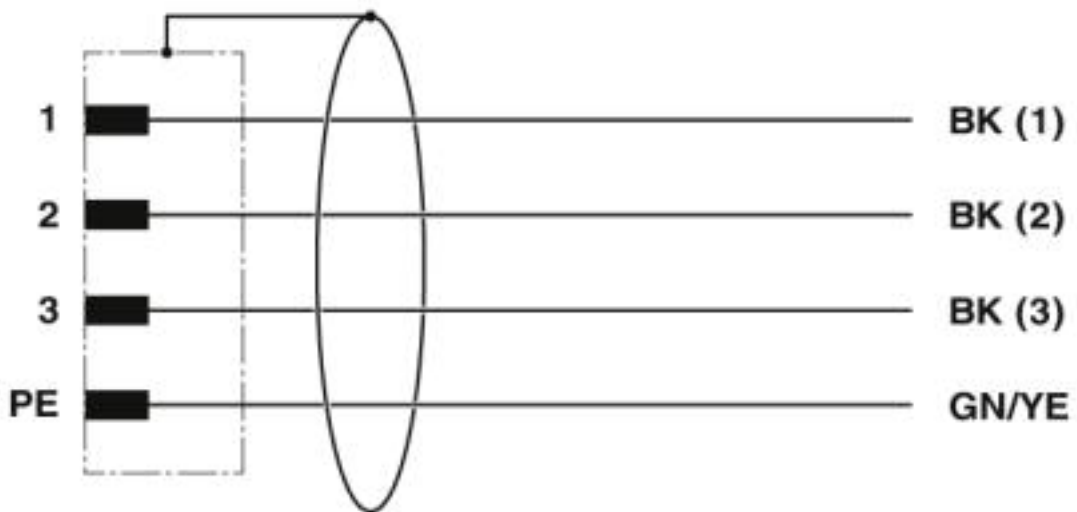
Power cable - SAC-4P-M12MSS/ 1,5-PUR PE SH - 1424104

Dimensional drawing



Plug, M12 x 1, straight, shielded

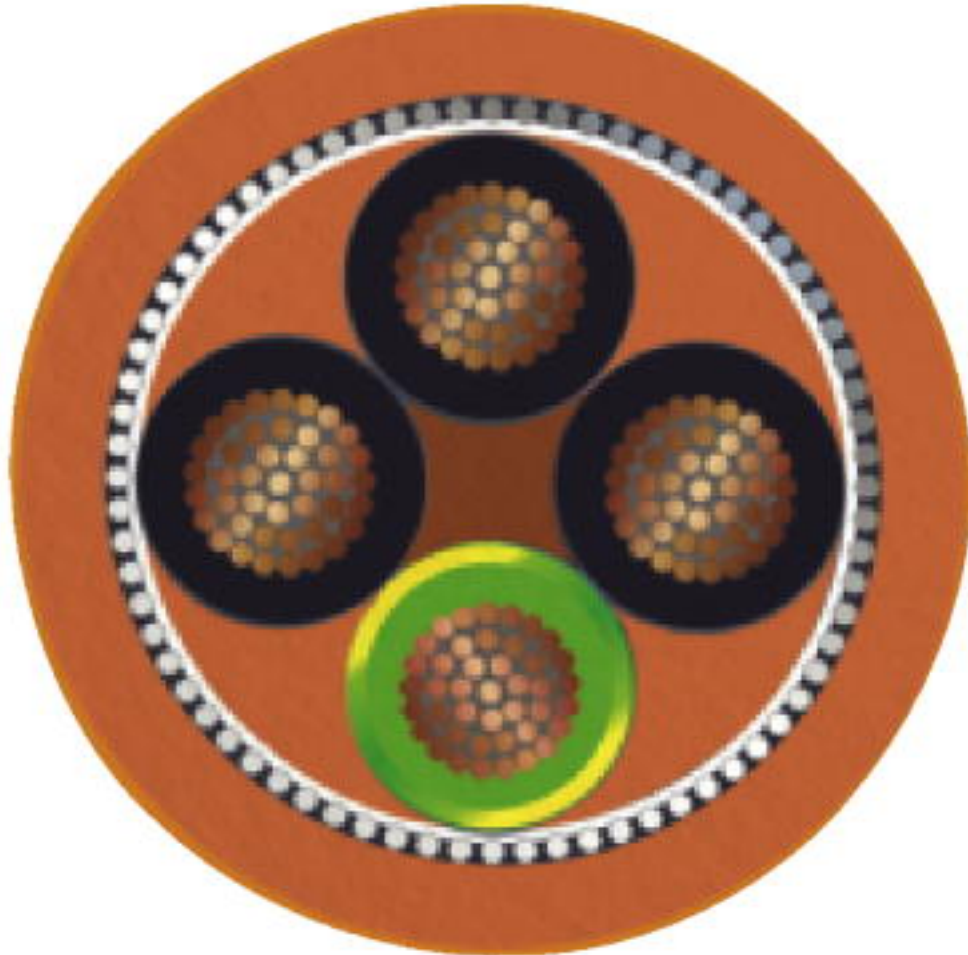
Circuit diagram



Contact assignment of the M12 plug

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Cable cross section



PUR halogen-free orange shielded [PUR]

Approvals

Approvals

Approvals

UL Listed / cUL Listed / EAC / 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 | FILE E 468743 |
| | | | |
| Nominal voltage UN | 600 V | | |
| Nominal current IN | 12 A | | |
| mm ² /AWG/kcmil | 16 | | |

| | | | |
|----------------------------|-------|---|---------------|
| cUL Listed | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 468743 |
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| Nominal voltage UN | 600 V | | |
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| | | |
|-----|--|--------------------------|
| EAC | | RU C- DE.BL08.B.00286 |
|-----|--|--------------------------|

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

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