

SAC-4P-M12MSS/ 0,3-PUR PE - Power cable



1217796

<https://www.phoenixcontact.com/us/products/1217796>

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Power cable, PUR halogen-free, black-gray RAL 7021, Plug straight M12, coding: S, on free cable end, for AC current up to 12 A/690 V

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 1217796 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | BF05 |
| Product key | AF1CCP |
| GTIN | 4063151300081 |
| Weight per piece (including packing) | 58.6 g |
| Weight per piece (excluding packing) | 56.6 g |
| Customs tariff number | 85444290 |
| Country of origin | PL |

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Technical data

Product properties

| | |
|--------------|---------------|
| Product type | Power cable |
| Application | Energy supply |
| Coding | S |

Insulation characteristics

| | |
|----------------------|-----|
| Overvoltage category | III |
| Degree of pollution | 3 |

Electrical properties

| | |
|-----------------------|----------|
| Nominal voltage U_N | 690 V AC |
| Nominal current I_N | 12 A |

Connector

Connection 1

| | |
|-------------|-------------------|
| Type | Plug straight M12 |
| Coding type | S (Power) |

Connection 2

| | |
|------|----------------|
| Type | free cable end |
|------|----------------|

Cable/line

PUR halogen-free black [PUR]

| | |
|-------------------------------------|---|
| Cable weight | 92 kg/km |
| UL AWM Style | 80°C/1000 V |
| Number of positions | 4 |
| Shielded | no |
| Cable type | PUR halogen-free black [PUR] |
| Conductor structure, voltage supply | 44x 0.20 mm |
| AWG power supply | 16 |
| Conductor cross-section | 4x 1.5 mm ² |
| Wire diameter incl. insulation | 2.35 mm ±0.05 mm |
| External cable diameter | 7.40 mm ±0.25 mm |
| Outer sheath, material | PUR |
| External sheath, color | black-gray RAL 7021 |
| Conductor material | Bare Cu litz wires |
| Material wire insulation | PP |
| Single wire, color | black 1, black 2, black 3, green/yellow |
| Thickness, insulation | ≥ 0.31 mm |
| Thickness, outer sheath | approx. 0.85 mm |
| Overall twist | 4 wires, twisted |

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| | |
|---|--|
| Max. conductor resistance | ≤ 14.1 Ω/km (at 20 °C) |
| Insulation resistance | ≥ 1 GΩ*km (at 20 °C) |
| Nominal voltage, cable | ≤ 1000 V AC |
| Test voltage | ≥ 10000 V AC (Spark test) |
| Minimum bending radius, fixed installation | 5 x D |
| Minimum bending radius, flexible installation | 10 x D |
| Smallest bending radius, fixed installation | 37 mm |
| Smallest bending radius, movable installation | 74 mm |
| Dynamic load capacity (bending) | Max. bending cycles: 5000000, Bending radius: 10 x D, Traversing path: 10 m, Traversing rate: 3 m/s, Acceleration: 10 m/s ² |
| Dynamic load capacity (torsion) | Torsion: ±180 °/m, Torsion cycles: 500000, Torsional frequency: 35 cycles/min. |
| Halogen-free | in accordance with DIN VDE 0472 part 815 |
| | in accordance with DIN EN 50267-2-1 |
| Flame resistance | According to UL 758/1581 (Cable Flame) |
| | in accordance with UL 758/1581 FT2 |
| | according to DIN EN 60332-2-2 |
| Resistance to oil | according to DIN EN 60811-404, 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 ... 85 °C (cable, fixed installation) |
| | -30 °C ... 85 °C (Cable, flexible installation) |

Environmental and real-life conditions

Ambient conditions

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

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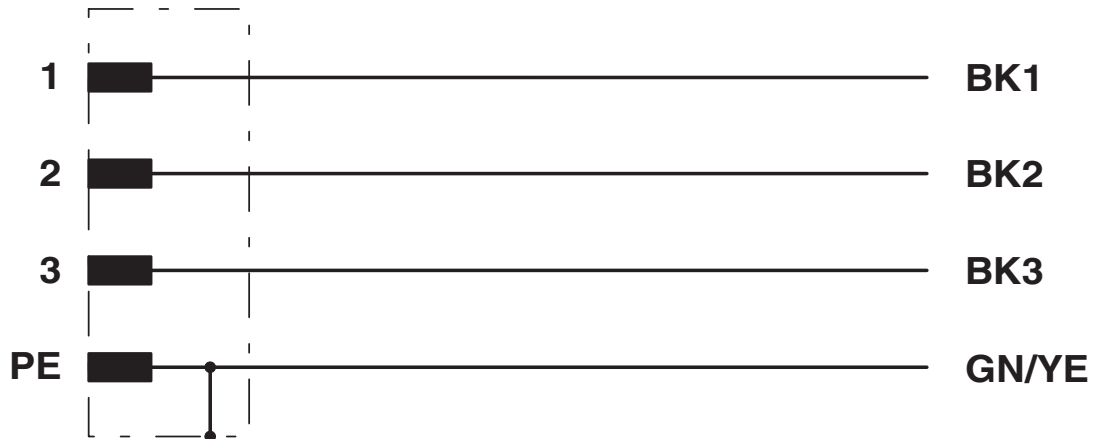
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Drawings

Circuit diagram



Contact assignment of the M12 plug

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Approvals

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|  UL Listed Approval ID: FILE E 468743 | | | | |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| keine | | | | |
| | 600 V | 12 A | - 16 | - 16 |

|  cUL Listed Approval ID: FILE E 468743 | | | | |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| keine | | | | |
| | 600 V | 12 A | - 16 | - |

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27060327 |
| ECLASS-15.0 | 27060327 |

ETIM

| | |
|-----------|----------|
| ETIM 10.0 | EC001855 |
|-----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 26121600 |
|-------------|----------|

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Environmental product compliance

EU RoHS

| | |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|---|--------------------|

China RoHS

| | |
|--|--|
| Environment friendly use period (EFUP) | EFUP-E |
| | No hazardous substances above the limits |

EU REACH SVHC

| | |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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