

SAC-3P-M12MSS/ 5,0-PVC PE - Power cable



1411638

<https://www.phoenixcontact.com/us/products/1411638>

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Power cable, 3-position, PVC, black, Plug straight M12, coding: S, on free cable end, cable length: 5 m, For alternating current up to 16 A/690 V

Your advantages

- Easy and safe: 100 % electrically tested plug-in components
- Protection against incorrect connection using special S-coding

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1411638 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | BF05 |
| Product key | AF1CBB |
| GTIN | 4046356937382 |
| Weight per piece (including packing) | 435.8 g |
| Weight per piece (excluding packing) | 440.3 g |
| Customs tariff number | 85444290 |
| Country of origin | PL |

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Technical data

Product properties

| | |
|----------------------|---------------|
| Product type | Power cable |
| Application | Energy supply |
| Number of positions | 3 |
| No. of cable outlets | 1 |
| Shielded | no |
| Coding | S |

Insulation characteristics

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

Material specifications

| | |
|--|------------------------------|
| Flammability rating according to UL 94 | V0 |
| Material of grip body | PP |
| Contact material | CuZn |
| Contact surface material | Ni/Au |
| Contact carrier material | PA |
| Material for screw connection | Zinc die-cast, nickel-plated |

Electrical properties

| | |
|-----------------------|----------------------------|
| Insulation resistance | $\geq 100 \text{ M}\Omega$ |
| Nominal voltage U_N | 690 V AC |
| Nominal current I_N | 16 A |

Mechanical properties

Mechanical data

| | |
|-----------------------------|-------|
| Insertion/withdrawal cycles | > 100 |
|-----------------------------|-------|

Connector

Connection 1

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

Connection 2

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

Cable/line

| | |
|--------------|-----|
| Cable length | 5 m |
|--------------|-----|

PVC black [PVC]

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| | |
|---|--|
| Dimensional drawing |  |
| Cable weight | 80 kg/km |
| UL AWM Style | 2517 (105 °C / 300 V) |
| Number of positions | 3 |
| Shielded | no |
| Cable type | PVC black [PVC] |
| Conductor structure, voltage supply | 30x 0.25 mm |
| AWG power supply | 16 |
| Conductor cross-section | 3x 1.5 mm ² |
| Wire diameter incl. insulation | 2.4 mm ±0.1 mm |
| External cable diameter | 6.80 mm ±0.2 mm |
| Outer sheath, material | PVC |
| External sheath, color | black |
| Conductor material | Bare Cu litz wires |
| Material wire insulation | PVC |
| Single wire, color | black 1, black 2, green/yellow |
| Overall twist | 3 wires, twisted |
| Max. conductor resistance | ≤ 13.3 Ω/km (at 20 °C) |
| Insulation resistance | ≥ 10 MΩ*km (at 20 °C) |
| Nominal voltage, cable | 300 V AC |
| Test voltage | 2000 V AC |
| Minimum bending radius, fixed installation | 5 x D |
| Minimum bending radius, flexible installation | 12 x D |
| Smallest bending radius, fixed installation | 34 mm |
| Smallest bending radius, movable installation | 82 mm |
| Flame resistance | according to IEC 60332-1 According to DIN EN 60332-1-2 According to VW-1 According to FT1 |
| Ambient temperature (operation) | -40 °C ... 90 °C (cable, fixed installation) -5 °C ... 90 °C (Cable, flexible installation) |

Environmental and real-life conditions

Ambient conditions

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

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| |
|---|
| Ambient temperature (operation) (male connector/female connector) |
|---|

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

Standards and regulations

| |
|----------------------|
| Standard designation |
|----------------------|

| |
|---------------|
| M12 connector |
|---------------|

| |
|--------------------------|
| Standards/specifications |
|--------------------------|

| |
|-----------------|
| IEC 61076-2-111 |
|-----------------|

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Drawings



Plug, M12 x 1, straight

Schematic diagram



Pin assignment of M12 plug, 3-pos., S-coded, view of pin side

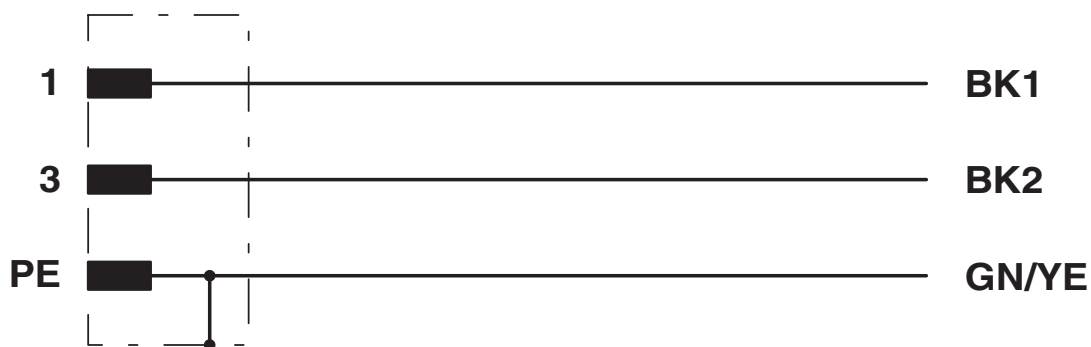
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Circuit diagram



Contact assignment of the M12 plug

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1411638>



EAC-RoHS

Approval ID: RU D-DE.HB35.B.00387



UL Listed

Approval ID: FILE E 468743

| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
|-------|-----------------------|-----------------------|-------------------|-----------------------------|
| keine | | | | |
| | 300 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 | | | | |
| | 300 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% |
|-------------------------------------|----------------------------|

EF3.1 Climate Change

| | |
|---------|---------------|
| CO2e kg | 1.886 kg CO2e |
|---------|---------------|

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