

SAC-4P-M12MRL/ 5,0-110 - Power cable



1425051

<https://www.phoenixcontact.com/us/products/1425051>

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Power cable, 4-position, PVC, black-gray RAL 7021, Plug angled M12, coding: L, on free cable end, cable length: 5 m, For direct current up to 12 A/63 V

Your advantages

- Easy and safe: 100 % electrically tested plug-in components
- Protection against mismatching, thanks to special L-coding

Commercial data

| | |
|--------------------------------------|---------------------|
| Item number | 1425051 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | BF05 |
| Product key | BF1CCR |
| Catalog page | Page 297 (C-2-2019) |
| GTIN | 4055626383897 |
| Weight per piece (including packing) | 536.5 g |
| Weight per piece (excluding packing) | 531.96 g |
| Customs tariff number | 85444290 |
| Country of origin | PL |

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Technical data

Product properties

| | |
|----------------------|--------------|
| Product type | Power cable |
| Number of positions | 4 |
| Application | Power supply |
| No. of cable outlets | 1 |
| Shielded | no |
| Coding | L |

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 | 63 V DC |
| Nominal current I_N | 12 A |
| Protective circuit | unwired |

Mechanical properties

Mechanical data

| | |
|-----------------------------|------------|
| Insertion/withdrawal cycles | ≥ 100 |
|-----------------------------|------------|

Connector

Connection 1

| | |
|-------------|-----------------|
| Type | Plug angled M12 |
| Coding type | L (Power) |

Connection 2

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

Cable/line

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

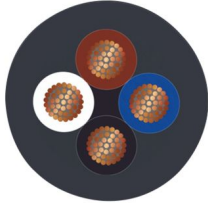
PVC 1.5 mm² black [110]

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| | |
|---|---|
| Dimensional drawing |  |
| Cable weight | 108 kg/km |
| UL AWM Style | 20233 / 10493 (80°C/300 V) |
| Number of positions | 4 |
| Shielded | no |
| Cable type | PVC 1.5 mm² black [110] |
| Conductor cross section | 4x 1.5 mm² |
| Wire diameter incl. insulation | 2.35 mm ±0.05 mm |
| External cable diameter | 7.55 mm ±0.25 mm |
| Outer sheath, material | PVC |
| External sheath, color | black-gray RAL 7021 |
| Conductor material | Bare Cu litz wires |
| Material wire insulation | PVC |
| Single wire, color | brown, white, blue, black |
| Thickness, insulation | ≥ 0.25 mm |
| Thickness, outer sheath | approx. 1.30 mm |
| Max. conductor resistance | ≤ 13 Ω/km (at 20 °C) |
| Insulation resistance | ≥ 1 GΩ*km (at 20 °C) |
| Nominal voltage, cable | ≤ 300 V AC |
| Test voltage | ≥ 3000 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 | 38 mm |
| Smallest bending radius, movable installation | 76 mm |
| Max. bending cycles | 2000000 |
| Flame resistance | According to UL 758/1581 (Cable Flame) according to UL 758/1581 FT1 According to DIN EN 60332-1-2 |
| Resistance to oil | according to DIN EN 60811-404, 168 h at 60 °C |
| Ambient temperature (operation) | -40 °C ... 80 °C (cable, fixed installation) -20 °C ... 80 °C (Cable, flexible installation) |

Environmental and real-life conditions

Ambient conditions

| | |
|----------------------|------|
| Degree of protection | IP65 |
| | IP67 |

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

Standards and regulations

| | |
|--------------------------|-----------------|
| Standard designation | M12 connector |
| Standards/specifications | IEC 61076-2-111 |

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-11.0 | 27060311 |
| ECLASS-12.0 | 27060311 |
| ECLASS-13.0 | 27060327 |

ETIM

| | |
|----------|----------|
| ETIM 9.0 | EC001855 |
|----------|----------|

UNSPSC

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

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Environmental product compliance

| | |
|------------|---|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
| | No hazardous substances above threshold values |

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