

SAC-5P-10,0-500/M12FRL FE SH - Power cable



1414828

<https://www.phoenixcontact.com/us/products/1414828>

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Power cable, 5-position, PVC, gray RAL 7001, shielded (Advanced Shielding Technology), free cable end, on Socket angled M12, coding: L, cable length: 10 m, for direct current up to 16 A/63 V

Your advantages

- Easy and safe: 100 % electrically tested plug-in components
- Protection against mismatching, thanks to special L-coding
- Shield power reliably – 360° shielding to reduce electromagnetic loads

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1414828 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | BF05 |
| Product key | AF1CDP |
| GTIN | 4055626034614 |
| Weight per piece (including packing) | 2,444.13 g |
| Weight per piece (excluding packing) | 2,444.13 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 | 5 |
| No. of cable outlets | 1 |
| Shielded | yes |
| 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 | 16 A |

Mechanical properties

Mechanical data

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

Connector

Connection 1

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

Connection 2

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

Cable/line

| | |
|--------------|------|
| Cable length | 10 m |
|--------------|------|

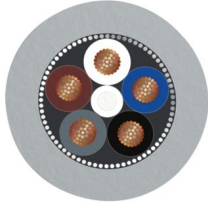
PVC gray [500]

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| | |
|---|--|
| Dimensional drawing |  |
| Cable weight | 231 kg/km |
| UL AWM Style | 20233 / 10493 (80°C/300 V) |
| Number of positions | 5 |
| Shielded | yes |
| Cable type | PVC gray [500] |
| Conductor structure, voltage supply | 141x 0.15 mm |
| AWG power supply | 14 |
| Conductor cross-section | 5x 2.5 mm ² |
| Wire diameter incl. insulation | 3 mm ±0.1 mm |
| External cable diameter | 10.80 mm ±0.3 mm |
| Outer sheath, material | PVC |
| External sheath, color | gray RAL 7001 |
| Conductor material | Bare Cu litz wires |
| Material wire insulation | PVC |
| Single wire, color | brown, white, blue, black, gray |
| Thickness, insulation | ≥ 0.36 mm |
| Thickness, outer sheath | approx. 0.76 mm |
| Max. conductor resistance | ≤ 8 Ω/km (at 20 °C) |
| Insulation resistance | ≥ 100 MΩ*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 | 54 mm |
| Smallest bending radius, movable installation | 108 mm |
| Dynamic load capacity (bending) | Max. bending cycles: 1000000, Bending radius: 10 x D, Traversing path: 10 m, Traversing rate: 3 m/s, Acceleration: 10 m/s ² |
| 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

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Ambient conditions

| | |
|---|----------------------------------|
| Degree of protection | IP65 |
| | IP67 |
| | IP68 |
| 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

Dimensional drawing



M12 x 1 socket, angled

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Schematic diagram



Pin assignment of M12 socket, 5-pos., L-coded, socket side view

Diagram



Base curve

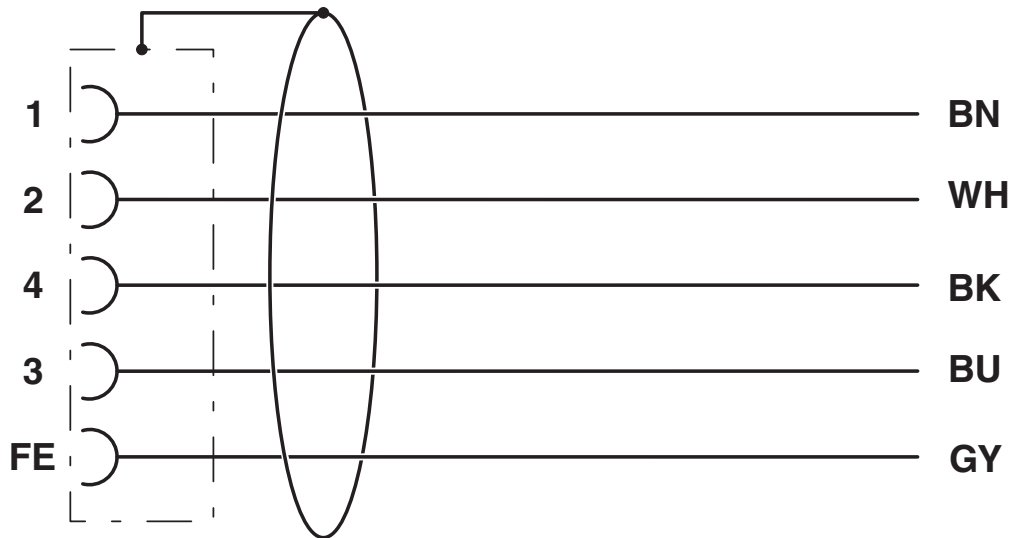
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Circuit diagram



Contact assignment of the M12 socket

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Approvals

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UL Listed

Approval ID: E468743



cUL Listed

Approval ID: E468743



EAC-RoHS

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

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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 | 20.247 kg CO2e |
|---------|----------------|

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