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

1414810

https://www.phoenixcontact.com/us/products/1414810

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Power cable, 5-position, PVC, gray RAL 7001, free cable end, on Socket angled M12, coding: L, cable length: 5 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

## Commercial data

| | |
|---|---|
| Item number | 1414810 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | BF05 |
| Product key | AF1CDP |
| GTIN | 4055626034447 |
| Weight per piece (including packing) | 1,052 g |
| Weight per piece (excluding packing) | 1,051.69 g |
| Customs tariff number | 85444290 |
| Country of origin | PL |

# Technical data

## Product properties

| | |
|---|---|
| Product type | Power cable |
| Application | Energy supply |
| Number of positions | 5 |
| 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 | ≥ 100 MΩ |
| 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 |

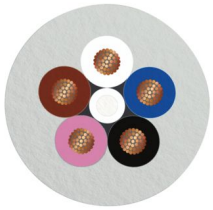
### Connection 2

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

## Cable/line

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

PVC gray [500]

| | |
|---|---|
| Dimensional drawing |  |
| Cable weight | 205 kg/km |
| UL AWM Style | 2464 (80°C/300 V) |
| Number of positions | 5 |
| Shielded | no |
| Cable type | PVC gray [500] |
| Conductor structure, voltage supply | 141x 0.15 mm |
| AWG power supply | 14 |
| Conductor cross-section | 5x 2.5 mm² |
| Wire diameter incl. insulation | 3 mm ±0.1 mm |
| External cable diameter | 10.10 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, pink |
| 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 | 51 mm |
| Smallest bending radius, movable installation | 101 mm |
| Dynamic load capacity (bending) | Max. bending cycles: 2000000, Bending radius: 10 x D, Traversing path: 10 m, Traversing rate: 3 m/s, Acceleration: 10 m/s² |
| 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

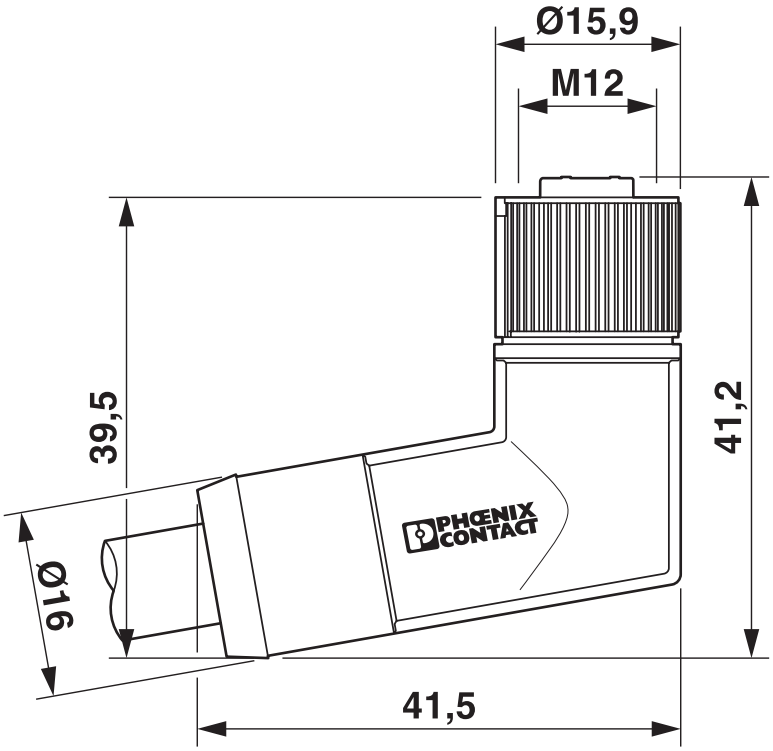
| | |
|---|---|
| Degree of protection | IP65 |
| | IP67 |
| Ambient temperature (operation) (male connector/female connector) | -25 °C ... 85 °C (Plug / socket) |

## Standards and regulations

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

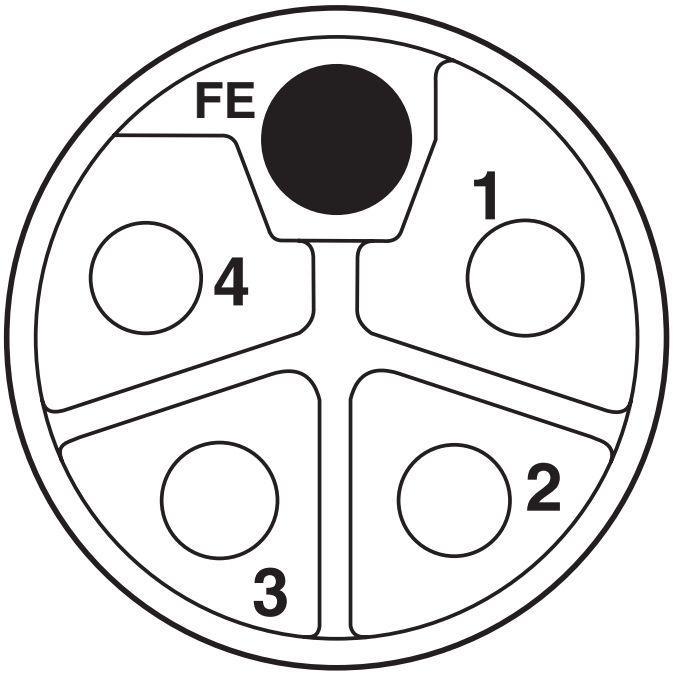
## Drawings

Dimensional drawing



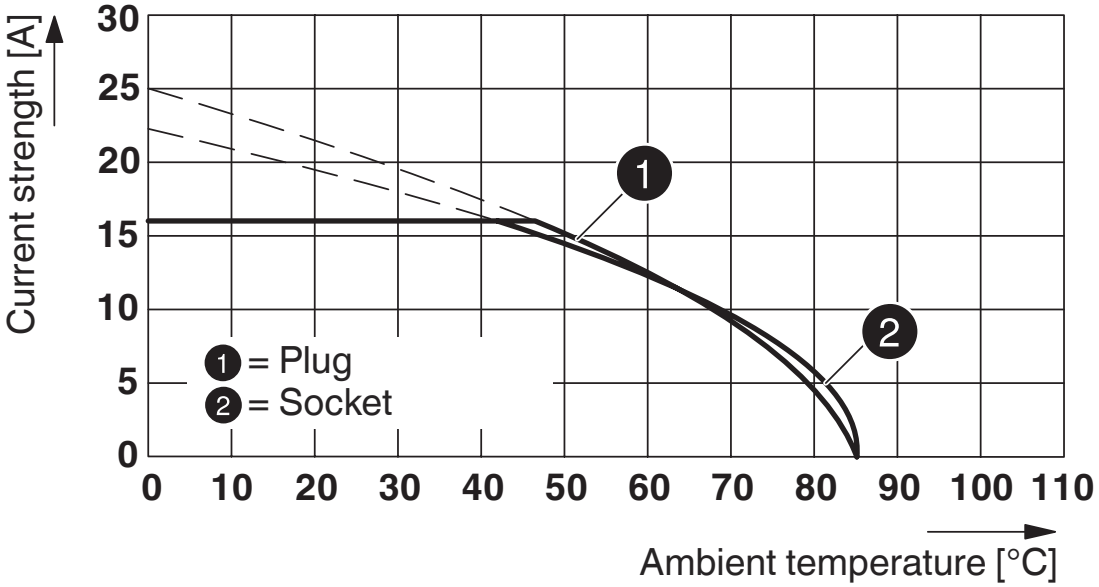

M12 x 1 socket, angled

Schematic diagram

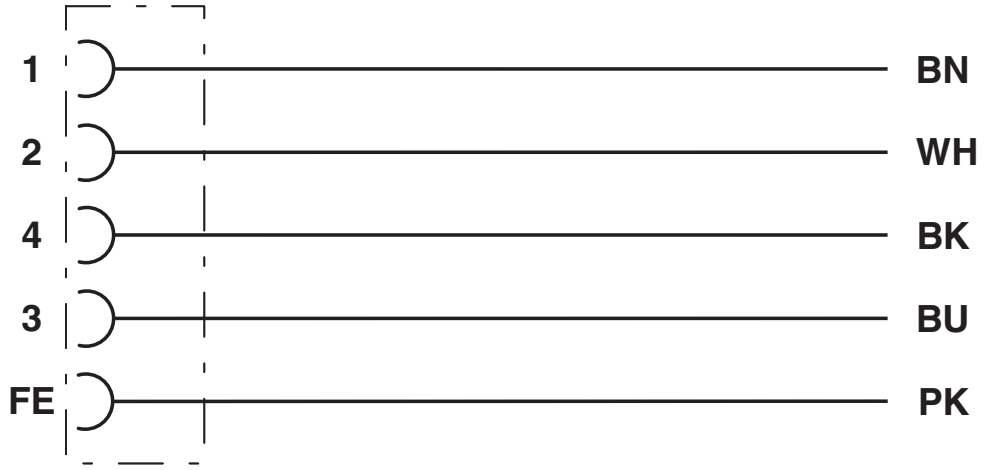



Pin assignment of M12 socket, 5-pos., L-coded, socket side view

Diagram



Circuit diagram




Contact assignment of the M12 socket

## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1414810

**UL Listed**
Approval ID: E468743

**cUL Listed**
Approval ID: E468743

**EAC-RoHS**
Approval ID: RU D-DE.HB35.B.00387

## Classifications

### ECLASS

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

### ETIM

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

### UNSPSC

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

## 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 | 8.354 kg CO2e |


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