

Power cable - SAC-5P-M12MSL/ 5,0-500 FE - 1414893

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)




Power cable, 5-position, PVC, gray RAL 7001, Plug straight M12, coding: L, on free cable end, cable length: 5 m, for direct current up to 16 A/63 V

Your advantages

- ✓ Easy and safe: 100% electrically tested plug-in components
- ✓ High-performance: DC connectors for up to 16 A and 63 V DC
- ✓ Protection against mismatching, thanks to special L-coding

RoHS

Key Commercial Data

| | |
|--------------|---|
| Packing unit | 1 pc |
| GTIN |  4 055626 035239 |
| GTIN | 4055626035239 |

Technical data

Dimensions

| | |
|-----------------|-----|
| Length of cable | 5 m |
|-----------------|-----|

Ambient conditions

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

General

| | |
|-----------------------|-----------|
| Rated current at 40°C | 16 A |
| Rated voltage | 63 V DC |
| Number of positions | 5 |
| Color handle area | black |
| Insulation resistance | ≥ 100 MΩ |
| Coding | L - Power |

Power cable - SAC-5P-M12MSL/ 5,0-500 FE - 1414893

Technical data

General

| | |
|------------------------------|-------------------------------|
| Standards/regulations | M12 connector IEC 61076-2-111 |
| Status display | No |
| Protective circuit/component | unwired |
| Overvoltage category | III |
| Degree of pollution | 3 |
| Insertion/withdrawal cycles | ≥ 100 |
| Torque | 0.4 Nm (M12 connector) |

Material

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

Standards and Regulations

| | |
|--|-------------------------------|
| Standards/specifications | M12 connector IEC 61076-2-111 |
| Flammability rating according to UL 94 | V0 |

Cable

| | |
|---|---------------------------------|
| UL AWM style | 20233 / 10493 (80°C/300 V) |
| Conductor cross section | 5x 2.5 mm ² |
| AWG power supply | 14 |
| Conductor structure, voltage supply | 141x 0.15 mm |
| Core diameter including insulation | 3 mm ±0.1 mm |
| Thickness, insulation | ≥ 0.36 mm |
| Wire colors | Brown, white, blue, black, gray |
| External sheath, color | gray RAL 7001 |
| Outer sheath thickness | approx. 0.76 mm |
| External cable diameter D | 10.1 mm ±0.3 mm |
| Minimum bending radius, fixed installation | 5 x D |
| Minimum bending radius, flexible installation | 10 x D |
| Number of bending cycles | 2000000 |
| Minimum bending radius, drag chain applications | 10 x D |
| Traversing path | 10 m |
| Traversing rate | 3 m/s |
| Acceleration | 10 m/s ² |
| Cable weight | 205 kg/km |
| Outer sheath, material | PVC |
| Material conductor insulation | PVC |
| Conductor material | Bare Cu litz wires |

Power cable - SAC-5P-M12MSL/ 5,0-500 FE - 1414893

Technical data

Cable

| | |
|---------------------------------|---|
| Insulation resistance | ≥ 100 MΩ*km (at 20 °C) |
| Conductor resistance | ≤ 8 Ω/km (at 20 °C) |
| Nominal voltage, cable | ≤ 300 V AC |
| Test voltage, cable | ≥ 3000 V AC (Spark test) |
| 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) |

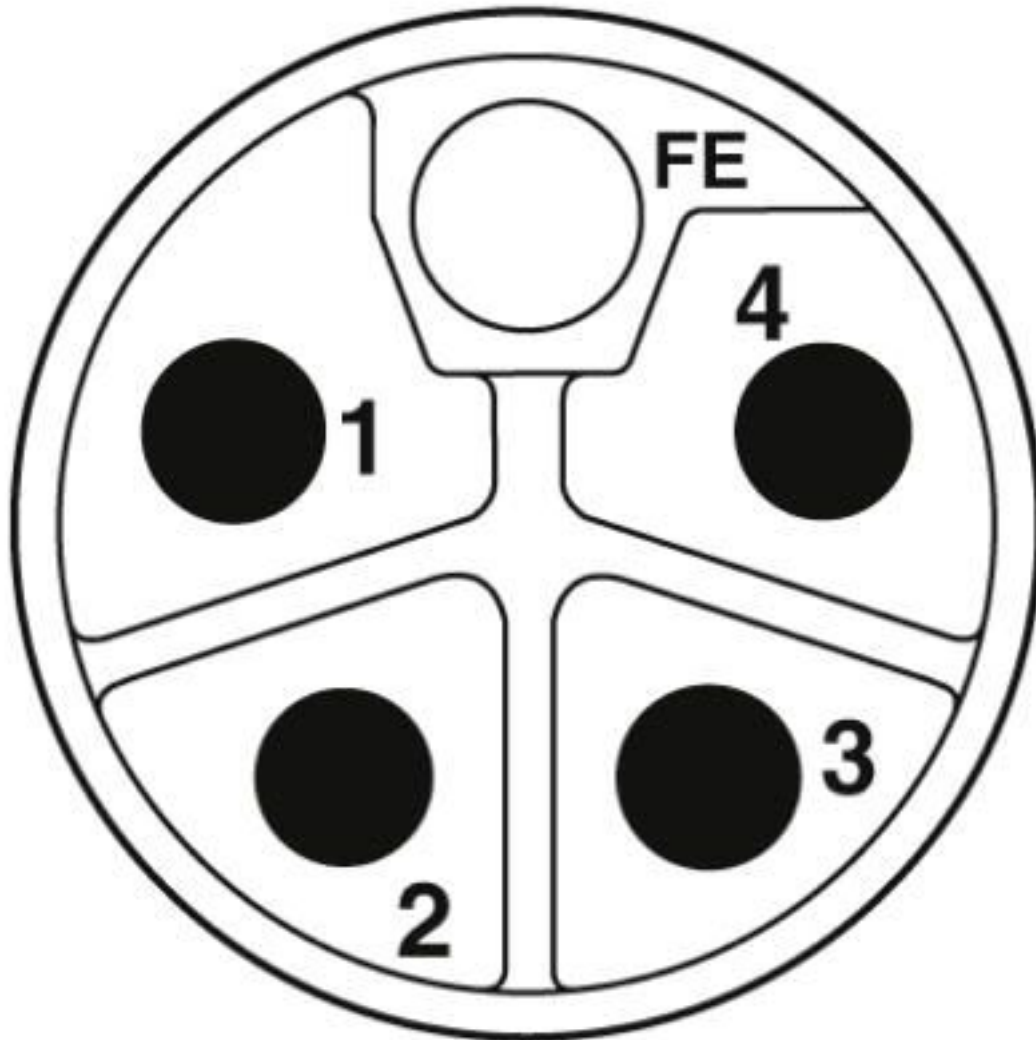
Environmental Product Compliance

| | |
|------------|---|
| REACH SVHC | Lead 7439-92-1 |
| China RoHS | Environmentally Friendly Use Period = 50 years |
| | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

Drawings

Power cable - SAC-5P-M12MSL/ 5,0-500 FE - 1414893

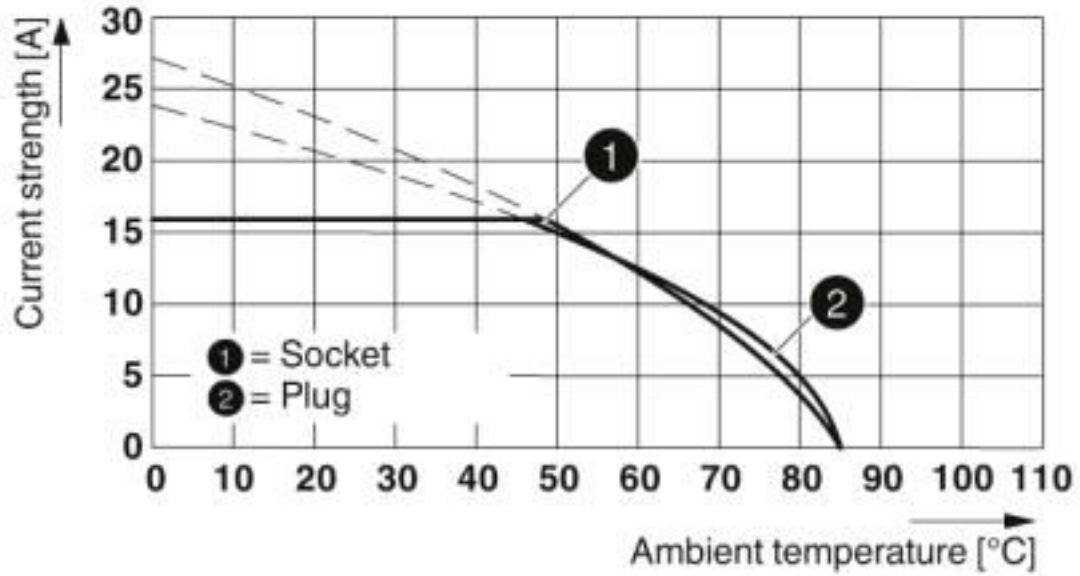
Schematic diagram



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

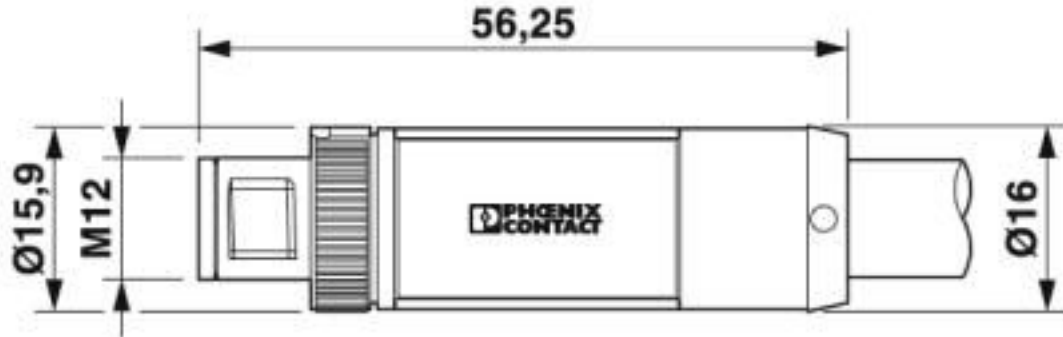
Power cable - SAC-5P-M12MSL/ 5,0-500 FE - 1414893

Diagram



Current carrying capacity

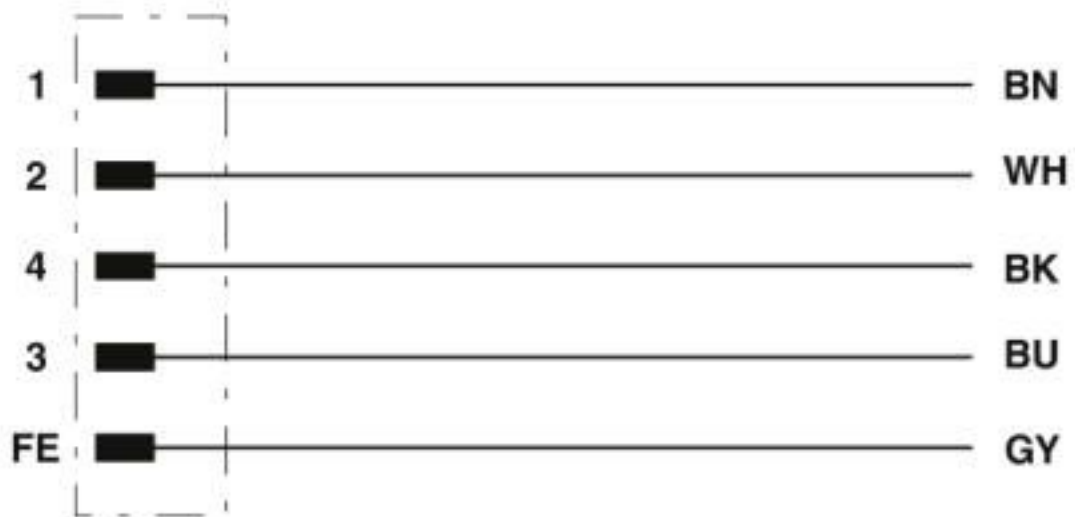
Dimensional drawing



Plug, M12 x 1, straight, shielded

Power cable - SAC-5P-M12MSL/ 5,0-500 FE - 1414893

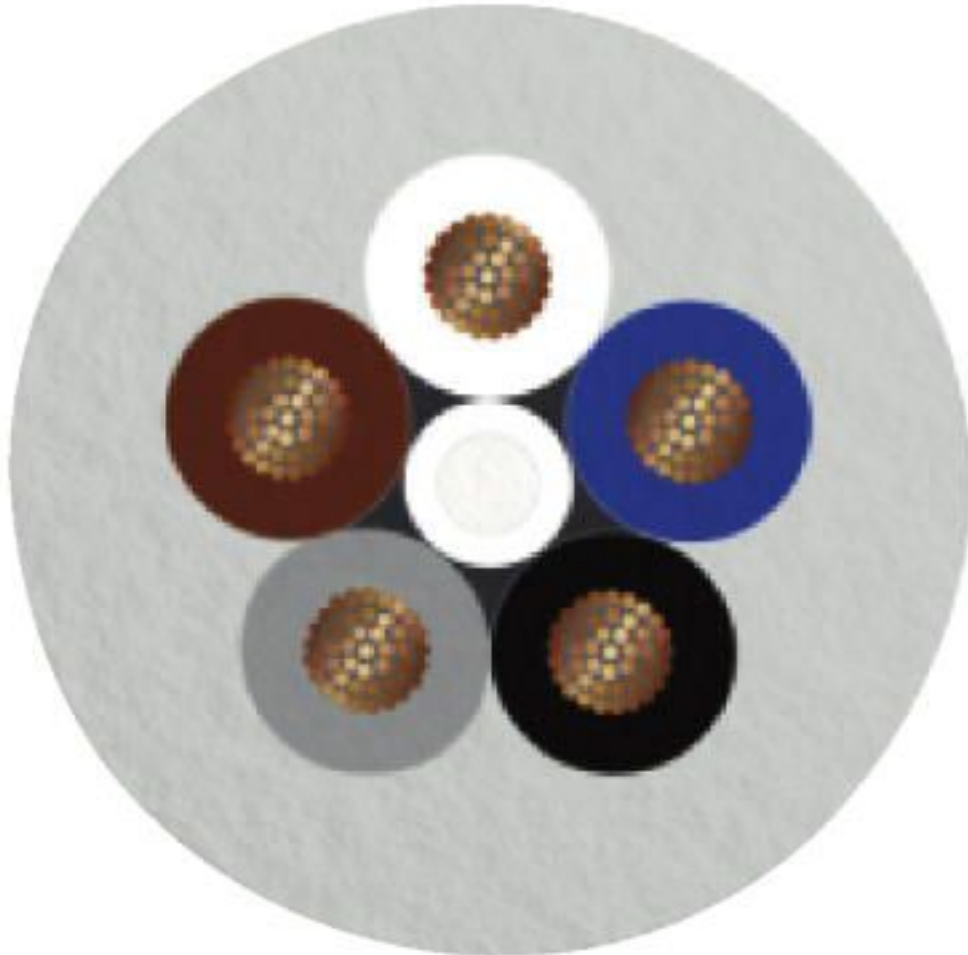
Circuit diagram



Contact assignment of the M12 plug

Power cable - SAC-5P-M12MSL/ 5,0-500 FE - 1414893

Cable cross section



PVC gray [500]

Classifications

eCl@ss

| | |
|---------------|----------|
| eCl@ss 10.0.1 | 27440203 |
| eCl@ss 4.0 | 24010400 |
| eCl@ss 4.1 | 24010400 |
| eCl@ss 5.0 | 19030300 |
| eCl@ss 5.1 | 19030300 |
| eCl@ss 6.0 | 27279200 |
| eCl@ss 7.0 | 27279218 |
| eCl@ss 8.0 | 27440203 |
| eCl@ss 9.0 | 27440203 |

Power cable - SAC-5P-M12MSL/ 5,0-500 FE - 1414893

Classifications

ETIM

| | |
|----------|----------|
| ETIM 5.0 | EC002311 |
| ETIM 6.0 | EC002311 |
| ETIM 7.0 | EC002311 |

Approvals

Approvals

Approvals

UL Listed / cUL Listed / EAC-RoHS / EAC / cULus Listed

Ex Approvals

Approval details

| | | | |
|----------------------------|--|---|---------|
| UL Listed | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | E468743 |
| Nominal voltage UN | | 63 V | |
| Nominal current IN | | 16 A | |
| mm ² /AWG/kcmil | | 14 | |

| | | | |
|----------------------------|--|---|---------|
| cUL Listed | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | E468743 |
| Nominal voltage UN | | 63 V | |
| Nominal current IN | | 16 A | |
| mm ² /AWG/kcmil | | 14 | |

| | | |
|----------|--|--------------------------|
| EAC-RoHS | | RU D- DE.HB35.B.00387 |
|----------|--|--------------------------|

| | | |
|-----|--|--------------------------|
| EAC | | RU C- DE.BL08.B.00286 |
|-----|--|--------------------------|

Power cable - SAC-5P-M12MSL/ 5,0-500 FE - 1414893

Approvals

cULus Listed



Accessories

Accessories

Protective cap

Sealing cap - PROT-M12 FS - 1560251



M12 sealing cap for unoccupied M12 plugs of the sensor/actuator cable, flush-type plugs and I/O devices in the field

Screwdriver tools

Tool - SAC BIT M12-D16 - 1200305



Nut for assembling sensor/actuator cables with M12 connector and M12 connectors for assembly, knurl diameter: 16 mm, for 4 mm hexagonal drive

Phoenix Contact 2020 © - all rights reserved
<http://www.phoenixcontact.com>

PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstr. 8
32825 Blomberg
Germany
Tel. +49 5235 300
Fax +49 5235 3 41200
<http://www.phoenixcontact.com>

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Sensor Cables / Actuator Cables](#) category:

Click to view products by [Phoenix Contact](#) manufacturer:

Other Similar products are found below :

[60963](#) [60964](#) [703000D02F2002](#) [703001D02F0602](#) [703001D02F300](#) [704000D02F120](#) [773032K02F030](#) [802027107404-1](#) [802027213811-1](#)
[804001A09M150](#) [805001A09M0502](#) [84914-0235](#) [84914-0237](#) [885030A09M020](#) [8R4J30E03C3003](#) [1200651332](#) [1200651713](#) [1200660844](#)
[1200660845](#) [1200661173](#) [1200680071](#) [1200720053](#) [1200720081](#) [1200720099](#) [1200720217](#) [1200800231](#) [1200860125](#) [1200870123](#)
[1200980102](#) [1200650267](#) [1200650298](#) [1200660183](#) [1200660782](#) [1200660849](#) [1200661295](#) [1200661297](#) [1200661342](#) [1200661343](#)
[1200670080](#) [1200670220](#) [1200680331](#) [1200720252](#) [1200730184](#) [1200860344](#) [1200870359](#) [1200870643](#) [1200980008](#) [1200980031](#)
[1210502211](#) [1210400542](#)