

## Power cable - SAC-5P-10,0-500/M12FSL FE - 1414831

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Power cable, 5-position, PVC, gray RAL 7001, Socket straight M12, L-coded, on free cable end, cable length: 10 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
- ✓

### Key Commercial Data

|                                      |   |
|--------------------------------------|---|
| Packing unit                         | 1 pc  |
| GTIN                                 | <br>4 055626 034645 |
| GTIN                                 | 4055626034645   |
| Weight per Piece (excluding packing) | 2,088.140 g   |
| Custom tariff number                 | 85444290  |
| Country of origin                    | Poland  |

### Technical data

#### Dimensions

|                 |      |
|-----------------|------|
| Length of cable | 10 m |
|-----------------|------|

#### Ambient conditions

|                                 |                                  |
|---------------------------------|----------------------------------|
| Ambient temperature (operation) | -25 °C ... 85 °C (Plug / socket) |
| Degree of protection            | IP65                             |
|                                 | IP67                             |
|                                 | IP68                             |

#### General

|                       |         |
|-----------------------|---------|
| Rated current at 40°C | 16 A    |
| Rated voltage         | 63 V DC |

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## Technical data

### General

|                              |                               |
|------------------------------|-------------------------------|
| Number of positions          | 5                             |
| Color handle area            | black                         |
| Insulation resistance        | ≥ 100 MΩ                      |
| Coding                       | L - Power                     |
| 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                       | CuSn                         |
| Contact surface material               | Ni/Au                        |
| Contact carrier material               | PA                           |
| Material of grip body                  | PA                           |
| Material, knurls                       | Zinc die-cast, nickel-plated |

### Standards and Regulations

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

### Cable

|   |                                 |
|---|---------------------------------|
| Cable type                                      | PVC                             |
| Cable type (abbreviation)                       | 500                             |
| UL AWM style                                    | 20233 / 10493 (80°C/300 V)      |
| Conductor cross section                         | 5x 2.5 mm <sup>2</sup>          |
| 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                          |

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## Technical data

### Cable

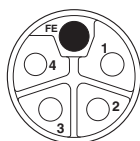
|                                 |   |
|---------------------------------|---|
| Traversing path                 | 10 m  |
| Traversing rate                 | 3 m/s   |
| Acceleration                    | 10 m/s <sup>2</sup>                             |
| Cable weight                    | 205 kg/km                                       |
| Outer sheath, material          | PVC   |
| Material conductor insulation   | PVC   |
| Conductor material              | Bare Cu litz wires                              |
| 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  |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

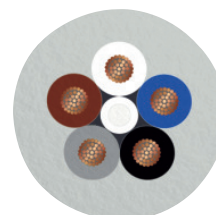
## Drawings

Schematic diagram



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

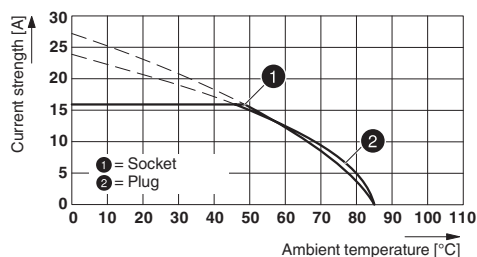
Cable cross section



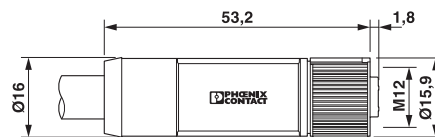
PVC [500]

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Diagram



Dimensional drawing



M12 x 1 socket, straight

Circuit diagram



Contact assignment of the M12 socket

## Classifications

eCl@ss

|            |          |
|------------|----------|
| 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 |

ETIM

|          |          |
|----------|----------|
| ETIM 3.0 | EC002061 |
| ETIM 4.0 | EC001855 |
| ETIM 5.0 | EC002311 |
| ETIM 6.0 | EC001855 |

## Approvals

Approvals

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Approvals

UL Listed / cUL Listed / EAC / cULus Listed

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Ex Approvals

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## Approvals

### Approval details

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

|                            |  |   |         |
|----------------------------|--|---|---------|
| cUL Listed                 |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | E468743 |
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|     |  |                          |
|-----|--|--------------------------|
| EAC |  | RU C-<br>DE.AI30.B.01102 |
|-----|--|--------------------------|

|              |  |
|--------------|--|
| cULus Listed |  |
|--------------|--|

## Accessories

### Accessories

#### 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