

# SAC-5P-M12MRL/ 3,0-500 FE - Power cable



1414856

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Power cable, 5-position, PVC, gray RAL 7001, Plug angled M12, coding: L, on free cable end, cable length: 3 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                          | 1414856             |
| Packing unit                         | 1 pc                |
| Minimum order quantity               | 1 pc                |
| Sales key                            | BF05                |
| Product key                          | BF1CDP              |
| Catalog page                         | Page 295 (C-2-2019) |
| GTIN                                 | 4055626034881       |
| Weight per piece (including packing) | 644.7 g             |
| Weight per piece (excluding packing) | 644.7 g             |
| Customs tariff number                | 85444290            |
| Country of origin                    | PL                  |

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## Technical data

### Product properties

|                      |              |
|----------------------|--------------|
| Product type         | Power cable  |
| Application          | Power 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 | $\geq 100 \text{ M}\Omega$ |
| Nominal voltage $U_N$ | 63 V DC                    |
| Nominal current $I_N$ | 16 A                       |

### Mechanical properties

#### Mechanical data

|                             |            |
|-----------------------------|------------|
| Insertion/withdrawal cycles | $\geq 100$ |
|-----------------------------|------------|

### Connector

#### Connection 1

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

#### Connection 2

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

### Cable/line

|              |     |
|--------------|-----|
| Cable length | 3 m |
|--------------|-----|

PVC gray [500]

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|                                               |                                                                                                         |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------|
| 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 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                                                                                                  |
| Max. bending cycles                           | 2000000                                                                                                 |
| Flame resistance                              | According to UL 758/1581 (Cable Flame)<br>according to UL 758/1581 FT1<br>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)<br>-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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