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Power cable, 4-position, PUR halogen-free, black-gray RAL 7021, free cable end, on Socket straight M12, coding: S, cable length: 10 m, for AC current up to 12 A/690 V

Your advantages

- Easy and safe: 100 % electrically tested plug-in components
- Protection against incorrect connection using special S-coding
- Our standard: robust halogen-free PUR cable

Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 1408846             |
| Packing unit                         | 1 pc                |
| Minimum order quantity               | 1 pc                |
| Sales key                            | BF05                |
| Product key                          | BF1CCP              |
| Catalog page                         | Page 289 (C-2-2019) |
| GTIN                                 | 4046356839914       |
| Weight per piece (including packing) | 1,100 g             |
| Weight per piece (excluding packing) | 1,085 g             |
| Customs tariff number                | 85444290            |
| Country of origin                    | DE                  |

# SAC-4P-10,0-PUR/M12FSS PE - Power cable



1408846

<https://www.phoenixcontact.com/us/products/1408846>

## Technical data

### Product properties

|                      |              |
|----------------------|--------------|
| Product type         | Power cable  |
| Application          | Power supply |
| Number of positions  | 4            |
| No. of cable outlets | 1            |
| Shielded             | no           |
| Coding               | S            |

### 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 $U_N$ | 690 V AC                   |
| Nominal current $I_N$ | 12 A                       |

### Mechanical properties

#### Mechanical data

|                             |       |
|-----------------------------|-------|
| Insertion/withdrawal cycles | > 100 |
|-----------------------------|-------|

### Connector

#### Connection 1

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

#### Connection 2

|             |                     |
|-------------|---------------------|
| Type        | Socket straight M12 |
| Coding type | S (Power)           |

### Cable/line

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

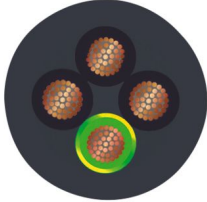
PUR halogen-free black [PUR]

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|                                               |                                                                                                         |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------|
| Dimensional drawing                           |                       |
| Cable weight                                  | 114 kg/km                                                                                               |
| UL AWM Style                                  | 20234 / 10492 (80°C/1000 V)                                                                             |
| Number of positions                           | 4                                                                                                       |
| Shielded                                      | no                                                                                                      |
| Cable type                                    | PUR halogen-free black [PUR]                                                                            |
| Conductor cross section                       | 4x 1.5 mm²                                                                                              |
| Wire diameter incl. insulation                | 2.45 mm ±0.05 mm                                                                                        |
| External cable diameter                       | 8.80 mm ±0.25 mm                                                                                        |
| Outer sheath, material                        | PUR                                                                                                     |
| External sheath, color                        | black-gray RAL 7021                                                                                     |
| Conductor material                            | Bare Cu litz wires                                                                                      |
| Material wire insulation                      | PP                                                                                                      |
| Single wire, color                            | black 1, black 2, black 3, green/yellow                                                                 |
| Thickness, insulation                         | ≥ 0.36 mm                                                                                               |
| Thickness, outer sheath                       | approx. 1.30 mm                                                                                         |
| Overall twist                                 | 4 wires, twisted                                                                                        |
| Length of twist, overall twist                | 93 mm                                                                                                   |
| Max. conductor resistance                     | ≤ 13 Ω/km (at 20 °C)                                                                                    |
| Insulation resistance                         | ≥ 1 GΩ*km (at 20 °C)                                                                                    |
| Nominal voltage, cable                        | ≤ 1000 V AC                                                                                             |
| Test voltage                                  | ≥ 10000 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   | 44 mm                                                                                                   |
| Smallest bending radius, movable installation | 88 mm                                                                                                   |
| Max. bending cycles                           | 2000000                                                                                                 |
| Halogen-free                                  | in accordance with DIN VDE 0472 part 815<br>in accordance with DIN EN 50267-2-1                         |
| 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 60811-2-1, 168 h at 100°C<br>According to UL 758, 168 h at 60°C                     |
| Other resistance                              | Hydrolysis and microbe resistant as per VDE 0282 section 10<br>Low adhesion<br>abrasion-resistant       |

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|                                 |                                                 |
|---------------------------------|-------------------------------------------------|
|                                 | Resistant to salt water                         |
| Ambient temperature (operation) | -50 °C ... 80 °C (cable, fixed installation)    |
|                                 | -30 °C ... 80 °C (Cable, flexible installation) |

## Environmental and real-life conditions

|                                 |                                                                            |
|---------------------------------|----------------------------------------------------------------------------|
| Ambient conditions              |                                                                            |
| Degree of protection            | IP65                                                                       |
|                                 | IP67 (without preloading, as additional test in accordance with IEC 60529) |
| 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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