

# SAC-4P- 5,0-PUR/M12FST - Power cable



1408825

<https://www.phoenixcontact.com/nz/products/1408825>

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Power cable, 4-position halogen-free, free cable end, on Socket straight M12, coding: T, cable length: 5 m, For direct current up to 12 A/63 V

## Your advantages

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

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 1408825             |
| Packing unit                         | 1 pc                |
| Minimum order quantity               | 1 pc                |
| Sales key                            | BF1CCQ              |
| Product key                          | BF1CCQ              |
| Catalog page                         | Page 185 (C-6-2019) |
| GTIN                                 | 4046356836258       |
| Weight per piece (including packing) | 543.3 g             |
| Weight per piece (excluding packing) | 543.3 g             |
| Country of origin                    | DE                  |

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## Technical data

### Product properties

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

### 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

|                       |                            |
|-----------------------|----------------------------|
| Contact resistance    | $\leq 5 \text{ m}\Omega$   |
| Insulation resistance | $\geq 100 \text{ M}\Omega$ |
| Nominal voltage $U_N$ | 63 V DC                    |
| Nominal current $I_N$ | 12 A                       |
| Protective circuit    | unwired                    |

### Mechanical properties

#### Mechanical data

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

### Connector

#### Connection 1

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

#### Connection 2

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

### Cable/line

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

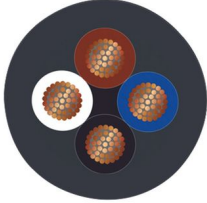
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PUR halogen-free black [PUR]

|                                                             |                                                                                                         |
|-------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| Dimensional drawing                                         |                       |
| Cable weight                                                | 109 kg/km                                                                                               |
| UL AWM Style                                                | 20233 / 10493 (80°C/300 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                              | 2.35 mm ±0.05 mm                                                                                        |
| External cable diameter                                     | 8.4 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                                          | brown, white, blue, black                                                                               |
| Thickness, insulation                                       | ≥ 0.25 mm                                                                                               |
| Thickness, outer sheath                                     | approx. 1.3 mm                                                                                          |
| Overall twist                                               | 4 wires, twisted                                                                                        |
| Length of twist, overall twist                              | 90 mm                                                                                                   |
| Max. conductor resistance                                   | ≤ 13 Ω/km (at 20 °C)                                                                                    |
| Insulation resistance                                       | ≥ 1 GΩ*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                 | 42 mm                                                                                                   |
| Smallest bending radius, movable installation               | 84 mm                                                                                                   |
| Max. bending cycles                                         | 4000000                                                                                                 |
| 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                     |
| Hydrolysis and microbe resistant as per VDE 0282 section 10 |                                                                                                         |

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|                                 |                                                 |
|---------------------------------|-------------------------------------------------|
| Other resistance                | Low adhesion                                    |
|                                 | abrasion-resistant                              |
|                                 | 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                             |
| 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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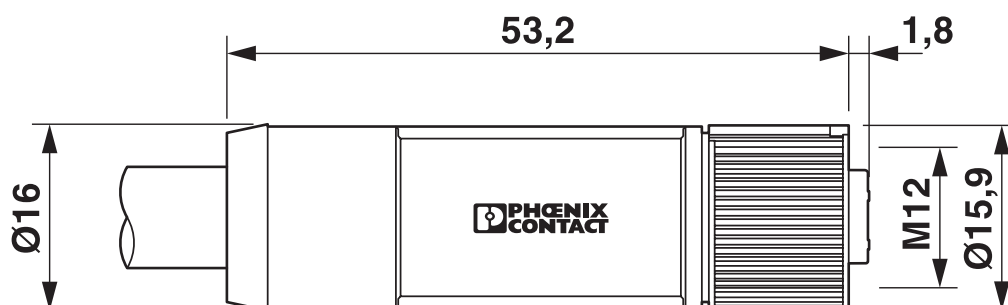
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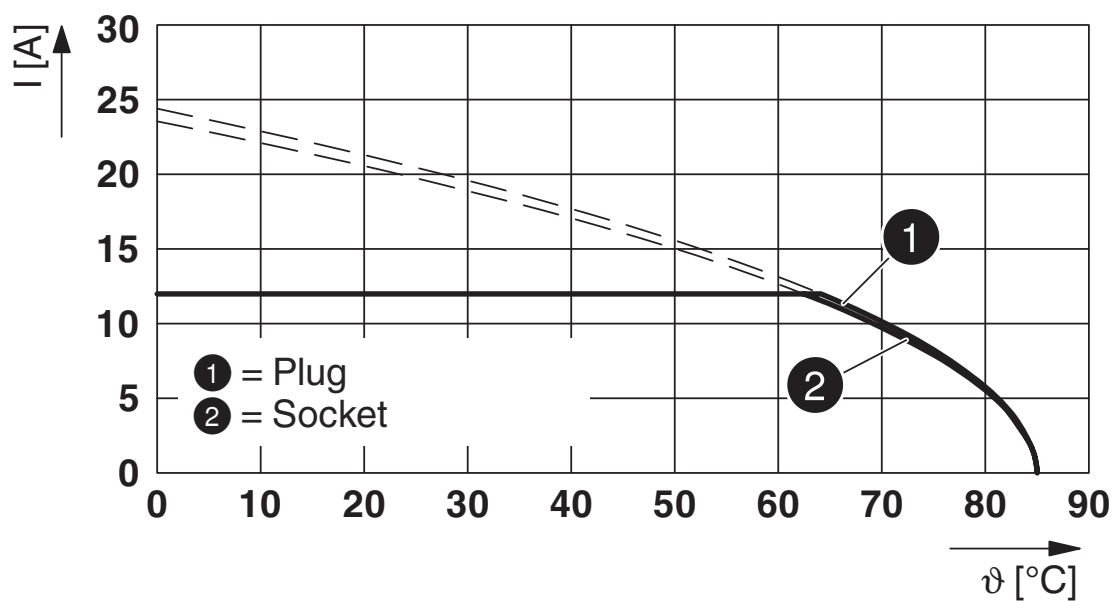
## Drawings

Dimensional drawing



M12 x 1 socket, straight

Diagram



Base curve

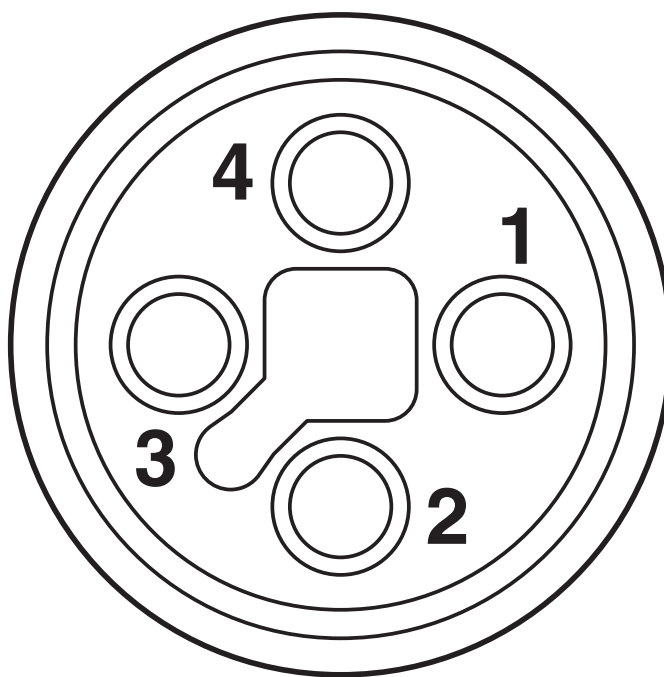
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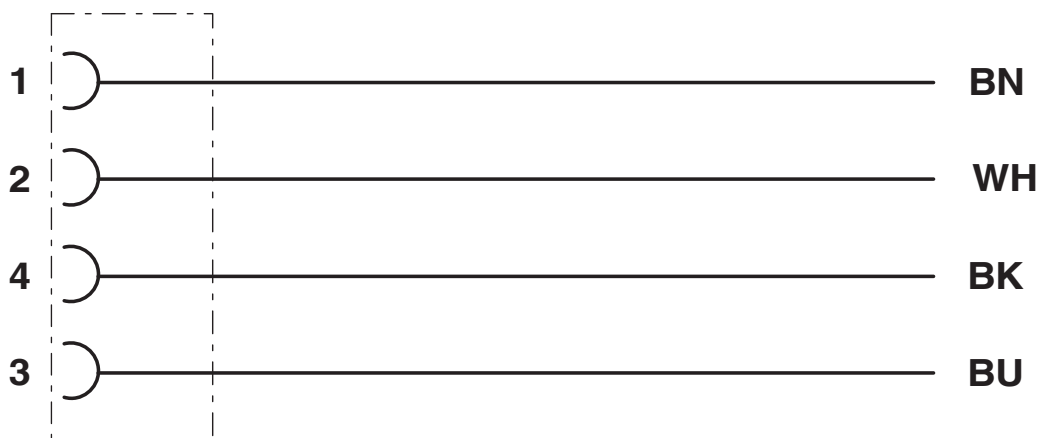


Schematic diagram



Pin assignment of M12 socket, 4-pos., T-coded, socket side view

Circuit diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/nz/products/1408825>



### UL Listed

Approval ID: E468743

|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  | 63 V                  | 12 A                  | -                 | - 16                        |



### cUL Listed

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|  | 63 V                  | 12 A                  | - 16              | -                           |



### EAC-RoHS

Approval ID: RU D-DE.HB35.B.00387

### cULus Listed

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27060311 |
| ECLASS-12.0 | 27060311 |
| ECLASS-13.0 | 27060327 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC001855 |
|----------|----------|

### UNSPSC

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

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## Environmental product compliance

|            |                                                         |
|------------|---------------------------------------------------------|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|            | No hazardous substances above threshold values          |

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