

# SAC-4P-10,0-PUR/M12FST SH - Power cable



1424115

<https://www.phoenixcontact.com/us/products/1424115>

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Power cable, 4-position, PUR halogen-free, black RAL 9005, shielded (Advanced Shielding Technology), free cable end, on Socket straight M12, coding: T, cable length: 10 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
- Shield power reliably – 360° shielding to reduce electromagnetic loads
- Our standard: robust halogen-free PUR cable

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1424115       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | BF05          |
| Product key                          | AF1CCQ        |
| GTIN                                 | 4046356693196 |
| Weight per piece (including packing) | 1,035 g       |
| Weight per piece (excluding packing) | 1,035 g       |
| Customs tariff number                | 85444290      |
| Country of origin                    | PL            |

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## Technical data

### Product properties

|                      |               |
|----------------------|---------------|
| Product type         | Power cable   |
| Application          | Energy supply |
| Number of positions  | 4             |
| No. of cable outlets | 1             |
| Shielded             | yes           |
| 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

|                       |                            |
|-----------------------|----------------------------|
| Insulation resistance | $\geq 100 \text{ M}\Omega$ |
| Nominal voltage $U_N$ | 63 V DC                    |
| 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 | T (Power)           |

### Cable/line

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

PUR halogen-free black [PUR]

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|   |   |
|---|---|
| Dimensional drawing                           |   |
| Cable weight                                  | 99 kg/km  |
| UL AWM Style                                  | 20549 / 10493 (80°C/300 V)  |
| Number of positions                           | 4   |
| Shielded                                      | yes   |
| Cable type                                    | PUR halogen-free black [PUR]  |
| Conductor structure, voltage supply           | 44x 0.20 mm   |
| AWG power supply                              | 16  |
| Conductor cross-section                       | 4x 1.5 mm <sup>2</sup>  |
| Wire diameter incl. insulation                | 2.2 mm ±0.05 mm   |
| External cable diameter                       | 7.50 mm ±0.3 mm   |
| Outer sheath, material                        | PUR   |
| External sheath, color                        | black RAL 9005  |
| Conductor material                            | Bare Cu litz wires  |
| Material wire insulation                      | PP  |
| Single wire, color                            | brown, white, blue, black   |
| Thickness, insulation                         | 0.80 mm (Outer cable sheath)  |
| Overall twist                                 | 4 wires optimally twisted   |
| Max. conductor resistance                     | ≤ 14.1 Ω/km (at 20 °C)  |
| Insulation resistance                         | ≥ 1 GΩ*km (at 20 °C)  |
| Nominal voltage, cable                        | 300 V AC  |
| Test voltage                                  | 3000 V AC   |
| Smallest bending radius, fixed installation   | 38 mm   |
| Smallest bending radius, movable installation | 75 mm   |
| Dynamic load capacity (bending)               | Max. bending cycles: 5000000, Bending radius: 75 mm, Bending radius: 10 x D, Traversing path: 10 m, Traversing rate: 3 m/s, Acceleration: 10 m/s <sup>2</sup> |
| Dynamic load capacity (torsion)               | Torsion: ±180 °/m, Torsion cycles: 500000, Torsional frequency: 35 cycles/min.  |
| Halogen-free                                  | in accordance with DIN VDE 0472 part 815<br>according to IEC 60754-1  |
| Flame resistance                              | in accordance with UL 758/1581 FT2<br>DIN EN 60332-2-2 (20 s)   |
| Resistance to oil                             | according to DIN EN 60811-404, 168 h at 100 °C  |
| Special properties                            | Flexible cable conduit capable  |
| Ambient temperature (operation)               | -50 °C ... 85 °C (cable, fixed installation)<br>-30 °C ... 85 °C (Cable, flexible installation)   |

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## Environmental and real-life conditions

### Ambient conditions

|   |  |
|---|--|
| Degree of protection  | IP65   |
|   | IP67   |
| Ambient temperature (operation) (male connector/female connector) | -25 °C ... 85 °C (Plug / socket)                         |
| Ambient temperature (operation) (GL)                              | 0 °C ... 55 °C (Temperature range in accordance with GL) |

## Standards and regulations

|                          |                 |
|--------------------------|-----------------|
| Standard designation     | M12 connector   |
| Standards/specifications | IEC 61076-2-111 |

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## Drawings

Dimensional drawing



M12 x 1 socket, straight

Schematic diagram

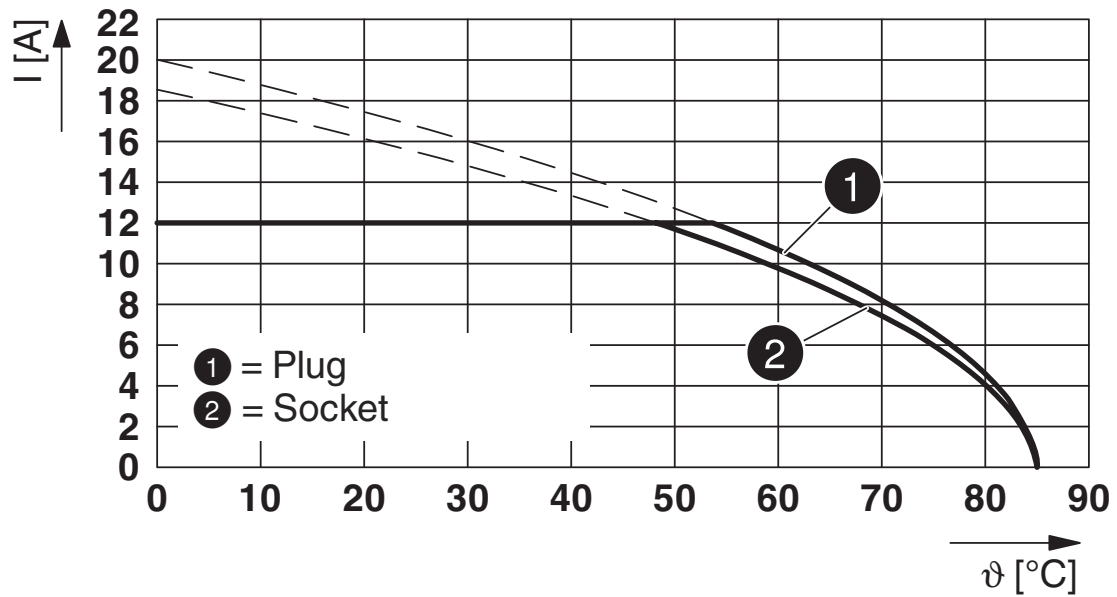


Pin assignment of M12 socket, 4-pos., T-coded, socket side view

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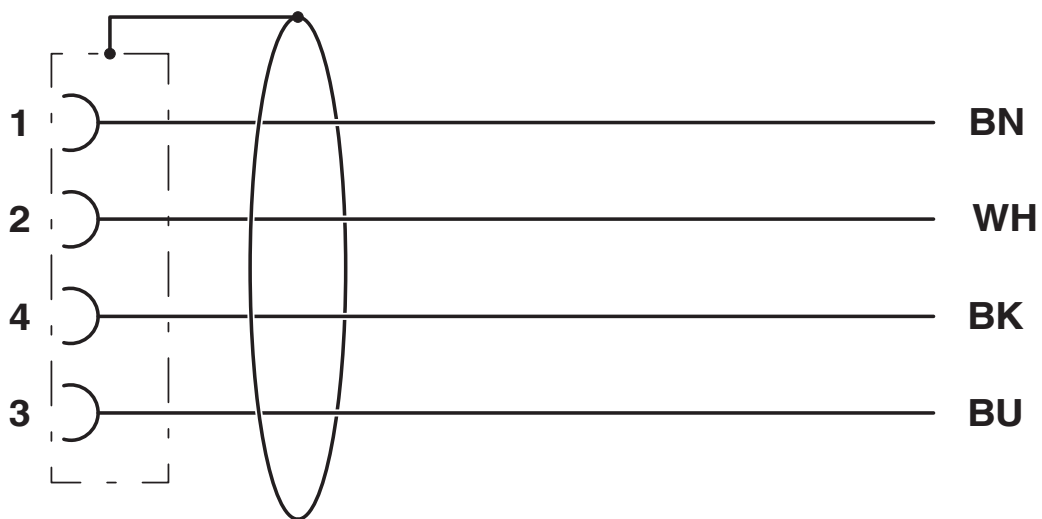
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Diagram



Base curve

Circuit diagram



Contact assignment of the M12 socket

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1424115>

### DNV

Approval ID: TAE00002K4



### UL Listed

Approval ID: E468743

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



### cUL Listed

Approval ID: E468743

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



### EAC-RoHS

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

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27060327 |
| ECLASS-15.0 | 27060327 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC001855 |
|-----------|----------|

### UNSPSC

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

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## Environmental product compliance

### EU RoHS

|   |                    |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|---|--------------------|

### China RoHS

|  |  |
|--|--|
| Environment friendly use period (EFUP) | EFUP-E                                   |
|  | No hazardous substances above the limits |

### EU REACH SVHC

|                                     |                            |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

### EF3.1 Climate Change

|         |                |
|---------|----------------|
| CO2e kg | 15.517 kg CO2e |
|---------|----------------|

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