

# SAC-4P- 1,5-PUR/M12FRL - Power cable



1425077

<https://www.phoenixcontact.com/nl/products/1425077>

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Power cable, 4-position, PUR halogen-free, black-gray RAL 7021, free cable end, on Socket angled M12, coding: L, cable length: 1.5 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
- Our standard: robust halogen-free PUR cable

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1425077       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | AF1CCR        |
| Product key                          | AF1CCR        |
| GTIN                                 | 4055626384153 |
| Weight per piece (including packing) | 232,5 g       |
| Weight per piece (excluding packing) | 240 g         |
| Customs tariff number                | 85444290      |
| Country of origin                    | PL            |

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## Technical data

### Product properties

|                      |               |
|----------------------|---------------|
| Application          | Energy supply |
| Number of positions  | 4             |
| 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 | free cable end |
|------|----------------|

#### Connection 2

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

### Cable/line

|              |       |
|--------------|-------|
| Cable length | 1.5 m |
|--------------|-------|

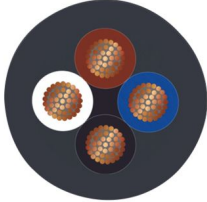
PUR halogen-free black [PUR]

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|                                               |                                                                                                                                   |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Dimensional drawing                           |                                                 |
| Cable weight                                  | 132 kg/km                                                                                                                         |
| Number of positions                           | 4                                                                                                                                 |
| Shielded                                      | no                                                                                                                                |
| Cable type                                    | PUR halogen-free black [PUR]                                                                                                      |
| Conductor structure, voltage supply           | 80x 0.20 mm                                                                                                                       |
| AWG power supply                              | 14                                                                                                                                |
| Conductor cross-section                       | 4x 2.5 mm²                                                                                                                        |
| Wire diameter incl. insulation                | 2.65 mm ±0.1 mm                                                                                                                   |
| External cable diameter                       | 7.90 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                         | ≥ 0.31 mm                                                                                                                         |
| Thickness, outer sheath                       | approx. 0.70 mm                                                                                                                   |
| Max. conductor resistance                     | ≤ 8 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   | 40 mm                                                                                                                             |
| Smallest bending radius, movable installation | 79 mm                                                                                                                             |
| Dynamic load capacity (bending)               | Max. bending cycles: 5000000, Bending radius: 10 x D, Traversing path: 10 m, Traversing rate: 3 m/s, Acceleration: 10 m/s²        |
| 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>in accordance with DIN EN 50267-2-1                                                   |
| Flame resistance                              | According to UL 758/1581 (Cable Flame)<br>according to UL 758/1581/2556 (horizontal, FT2)<br>According to DIN EN 60332-2-2 (20 s) |
| Resistance to oil                             | according to DIN EN 60811-404, 168 h at 100 °C<br>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) (male connector/female connector) | -25 °C ... 85 °C (Plug / socket) |

## Standards and regulations

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

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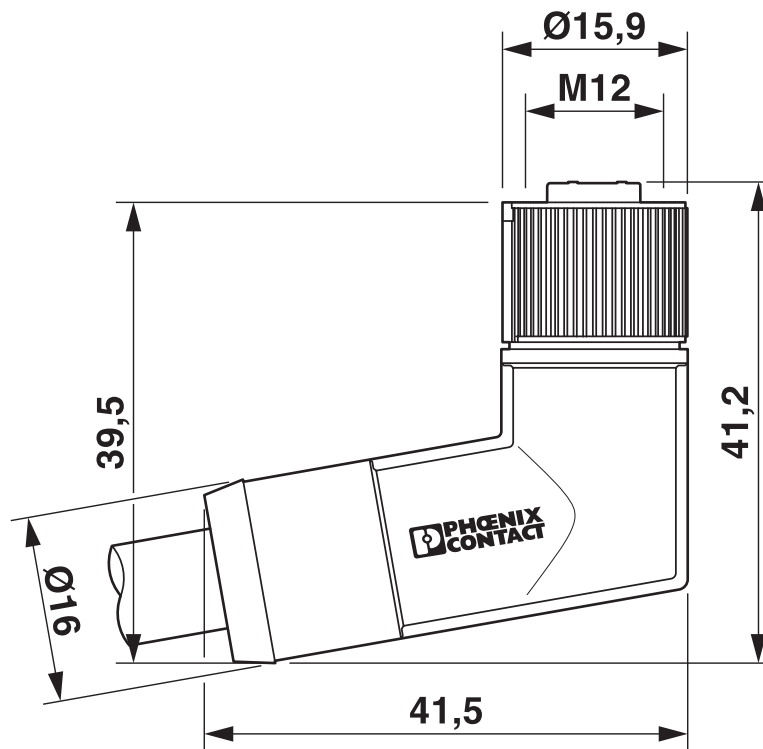
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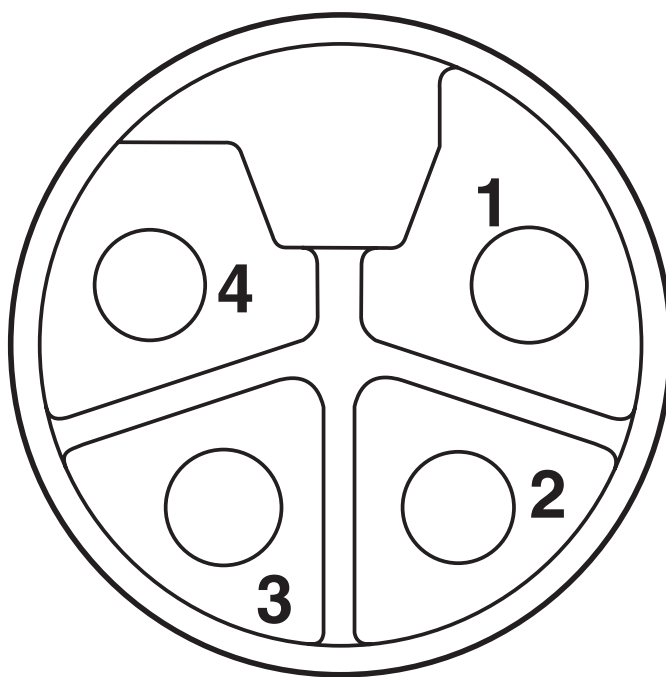
## Drawings

Dimensional drawing



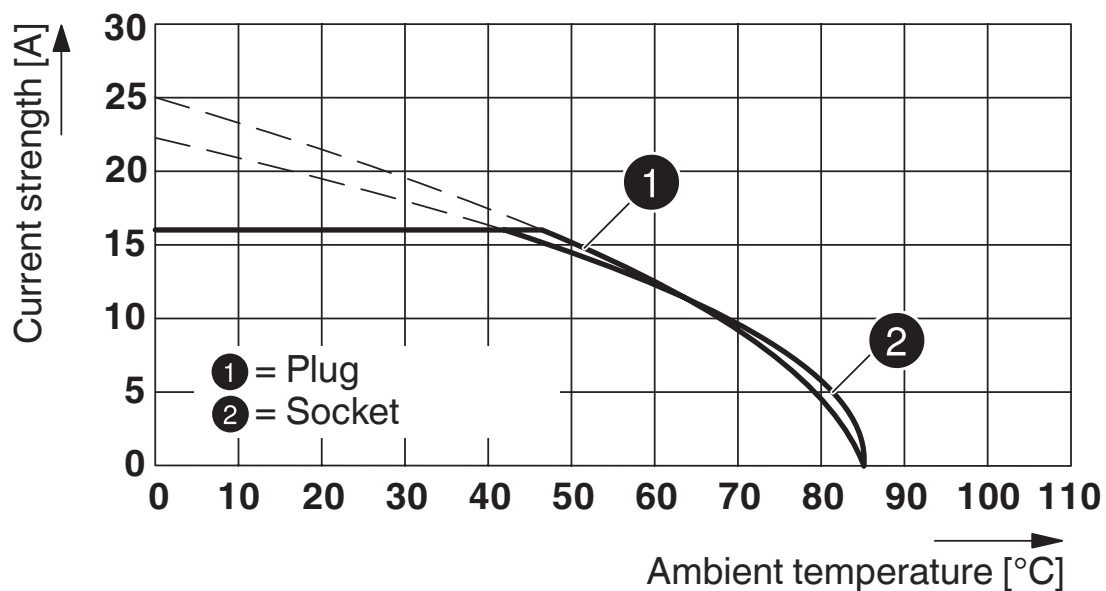
M12 x 1 socket, angled

Schematic diagram



Pin assignment of M12 socket, 4-pos.

Diagram



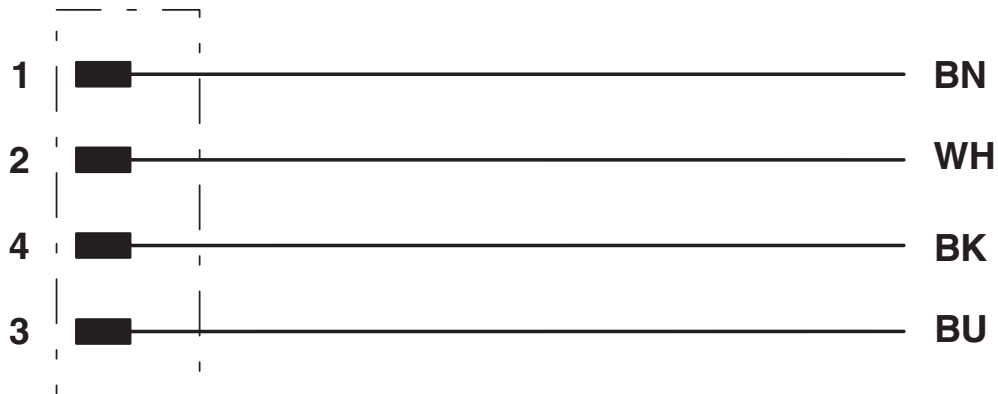
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Circuit diagram



Contact assignment of the M12 socket

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## Approvals

 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/nl/products/1425077>



**UL Listed**

Approval ID: E468743



**cUL Listed**

Approval ID: E468743



**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 | 3,513 kg CO2e |
|---------|---------------|

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