

# SAC-3P- 5,0-PUR/M12FSS PE - Power cable



1176846

<https://www.phoenixcontact.com/us/products/1176846>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Power cable, 3-position, PUR halogen-free, black, free cable end, on Socket straight M12, coding: S, cable length: 5 m, For alternating current up to 16 A/690 V

## Your advantages

- Easy and safe: 100 % electrically tested plug-in components
- Protection against incorrect connection using special S-coding

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1176846       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | BF05          |
| Product key                          | AF1CCP        |
| GTIN                                 | 4063151209537 |
| Weight per piece (including packing) | 379.3 g       |
| Weight per piece (excluding packing) | 379.3 g       |
| Customs tariff number                | 85444290      |
| Country of origin                    | PL            |

# SAC-3P- 5,0-PUR/M12FSS PE - Power cable



1176846

<https://www.phoenixcontact.com/us/products/1176846>

## Technical data

### Product properties

|                      |               |
|----------------------|---------------|
| Product type         | Power cable   |
| Application          | Energy supply |
| Number of positions  | 3             |
| 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 $I_N$ | 16 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 | 5 m |
|--------------|-----|

#### PUR black [PUR]

|              |          |
|--------------|----------|
| Cable weight | 66 kg/km |
|--------------|----------|

# SAC-3P- 5,0-PUR/M12FSS PE - Power cable



1176846

<https://www.phoenixcontact.com/us/products/1176846>

|   |  |
|---|--|
| UL AWM Style                                  | 20549 / 10493 (80°C/300 V)   |
| Number of positions                           | 3  |
| Shielded                                      | no   |
| Cable type                                    | PUR black [PUR]  |
| Conductor structure, voltage supply           | 44x 0.20 mm  |
| AWG power supply                              | 16   |
| Conductor cross-section                       | 3x 1.5 mm <sup>2</sup>   |
| Wire diameter incl. insulation                | 2.25 mm ±0.05 mm   |
| External cable diameter                       | 6.20 mm ±0.2 mm  |
| Outer sheath, material                        | PUR  |
| External sheath, color                        | black  |
| Conductor material                            | Bare Cu litz wires   |
| Material wire insulation                      | PP   |
| Single wire, color                            | black 1, black 2, green/yellow   |
| Overall twist                                 | 3 wires, 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   |
| Minimum bending radius, fixed installation    | 5 x D  |
| Minimum bending radius, flexible installation | 10 x D   |
| Smallest bending radius, fixed installation   | 31 mm  |
| Smallest bending radius, movable installation | 62 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/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>in accordance with DIN EN 50267-2-1  |
| Flame resistance                              | According to UL 758/1581 (Cable Flame)<br>in accordance with UL 758/1581 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   |
| Other resistance                              | Hydrolysis and microbe resistant as per VDE 0282 section 10<br>Low adhesion<br>abrasion-resistant<br>Resistant to salt water           |
| Ambient temperature (operation)               | -40 °C ... 80 °C (cable, fixed installation)<br>-25 °C ... 80 °C (Cable, flexible installation)  |

## Environmental and real-life conditions

### Ambient conditions

|                      |      |
|----------------------|------|
| Degree of protection | IP65 |
|----------------------|------|

# SAC-3P- 5,0-PUR/M12FSS PE - Power cable



1176846

<https://www.phoenixcontact.com/us/products/1176846>

|   |  |
|---|--|
|   | IP67 (without preloading, as additional test in accordance with IEC 60529) |
| 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 |

# SAC-3P- 5,0-PUR/M12FSS PE - Power cable

1176846

<https://www.phoenixcontact.com/us/products/1176846>

## Drawings

Dimensional drawing



M12 x 1 socket, straight

Schematic diagram



Pin assignment of M12 socket, 3-pos., S-coded, socket side view

# SAC-3P- 5,0-PUR/M12FSS PE - Power cable





1176846


<https://www.phoenixcontact.com/us/products/1176846>


## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1176846>

|  <b>UL Listed</b><br>Approval ID: FILE E 468743 |                       |                       |                   |                             |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine  |                       |                       |                   |                             |
|  | 600 V                 | 12 A                  | - 16              | - 16                        |

|  <b>cUL Listed</b><br>Approval ID: FILE E 468743 |                       |                       |                   |                             |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
|   | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine   |                       |                       |                   |                             |
|   | 600 V                 | 12 A                  | - 16              | -                           |

|  <b>cUL Listed</b><br>Approval ID: FILE E 468743 |                       |                       |                   |                             |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
|   | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine   |                       |                       |                   |                             |
|   | 300 V                 | 12 A                  | -                 | -                           |

|  <b>UL Listed</b><br>Approval ID: FILE E 468743 |                       |                       |                   |                             |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine  |                       |                       |                   |                             |
|  | 300 V                 | 12 A                  | -                 | -                           |

# SAC-3P- 5,0-PUR/M12FSS PE - Power cable



1176846

<https://www.phoenixcontact.com/us/products/1176846>

## Classifications

### ECLASS

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

### ETIM

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

### UNSPSC

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

# SAC-3P- 5,0-PUR/M12FSS PE - Power cable



1176846

<https://www.phoenixcontact.com/us/products/1176846>

## 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 | 18.293 kg CO2e |
|---------|----------------|

Phoenix Contact 2026 © - all rights reserved  
<https://www.phoenixcontact.com>

Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)