

# SAC-3P-M12MRS/ 1,0-PVC PE WD - Power cable



1423054

<https://www.phoenixcontact.com/us/products/1423054>

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, PVC, black, Plug angled M12, coding: S, on free cable end, cable length: 1 m, for AC current up to 16 A/230 V

## Your advantages

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

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1423054       |
| Packing unit                         | 50 pc         |
| Minimum order quantity               | 50 pc         |
| Product key                          | AF1CBB        |
| GTIN                                 | 4055626327310 |
| Weight per piece (including packing) | 22.22 g       |
| Weight per piece (excluding packing) | 22.22 g       |
| Country of origin                    | DE            |

## 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 $U_N$ | 230 V AC                   |
| Nominal current $I_N$ | 16 A                       |

### Mechanical properties

#### Mechanical data

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

### Connector

#### Connection 1

|             |                 |
|-------------|-----------------|
| Type        | Plug angled M12 |
| Coding type | S (Power)       |

#### Connection 2

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

### Cable/line

|              |     |
|--------------|-----|
| Cable length | 1 m |
|--------------|-----|

PVC black [PVC]

# SAC-3P-M12MRS/ 1,0-PVC PE WD - Power cable



1423054

<https://www.phoenixcontact.com/us/products/1423054>

|                                               |                                                                                                    |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------|
| Dimensional drawing                           |                  |
| Cable weight                                  | 80 kg/km                                                                                           |
| UL AWM Style                                  | 2517 (105 °C / 300 V)                                                                              |
| Number of positions                           | 3                                                                                                  |
| Shielded                                      | no                                                                                                 |
| Cable type                                    | PVC black [PVC]                                                                                    |
| Conductor structure, voltage supply           | 30x 0.25 mm                                                                                        |
| AWG power supply                              | 16                                                                                                 |
| Conductor cross section                       | 3x 1.5 mm²                                                                                         |
| Wire diameter incl. insulation                | 2.4 mm ±0.1 mm                                                                                     |
| External cable diameter                       | 6.80 mm ±0.2 mm                                                                                    |
| Outer sheath, material                        | PVC                                                                                                |
| External sheath, color                        | black                                                                                              |
| Conductor material                            | Bare Cu litz wires                                                                                 |
| Material wire insulation                      | PVC                                                                                                |
| Single wire, color                            | black 1, black 2, green/yellow                                                                     |
| Overall twist                                 | 3 wires, twisted                                                                                   |
| Max. conductor resistance                     | ≤ 13.3 Ω/km (at 20 °C)                                                                             |
| Insulation resistance                         | ≥ 10 MΩ*km (at 20 °C)                                                                              |
| Nominal voltage, cable                        | 300 V AC                                                                                           |
| Test voltage                                  | 2000 V AC                                                                                          |
| Minimum bending radius, fixed installation    | 5 x D                                                                                              |
| Minimum bending radius, flexible installation | 12 x D                                                                                             |
| Smallest bending radius, fixed installation   | 34 mm                                                                                              |
| Smallest bending radius, movable installation | 82 mm                                                                                              |
| Flame resistance                              | according to IEC 60332-1<br>According to DIN EN 60332-1-2<br>According to VW-1<br>According to FT1 |
| Ambient temperature (operation)               | -40 °C ... 90 °C (cable, fixed installation)<br>-5 °C ... 90 °C (Cable, flexible installation)     |

## Environmental and real-life conditions

### Ambient conditions

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

# SAC-3P-M12MRS/ 1,0-PVC PE WD - Power cable



1423054

<https://www.phoenixcontact.com/us/products/1423054>

|                                                                   |
|-------------------------------------------------------------------|
| 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 |
|-----------------|

1423054

<https://www.phoenixcontact.com/us/products/1423054>

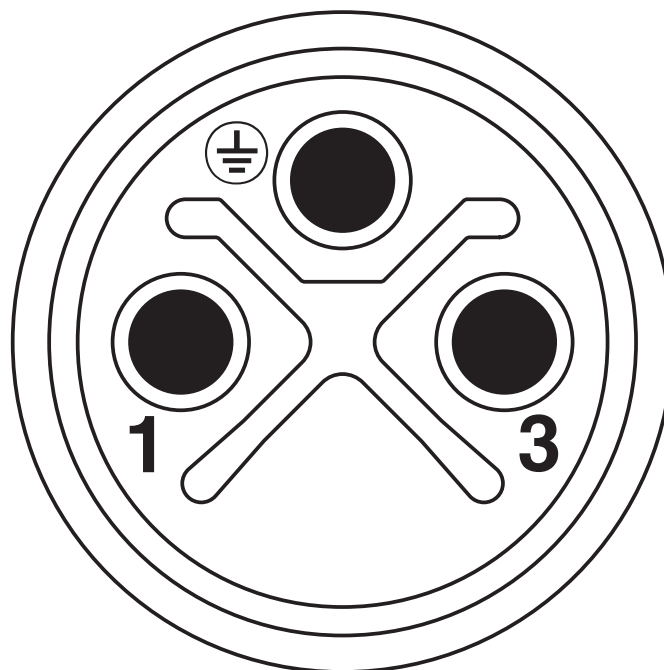
## Drawings

Dimensional drawing



M12 x 1 male plug, angled

Schematic diagram



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

# SAC-3P-M12MRS/ 1,0-PVC PE WD - Power cable



1423054

<https://www.phoenixcontact.com/us/products/1423054>

## Classifications

### ECLASS

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

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 31251501 |
|-------------|----------|

Phoenix Contact 2025 © - 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)