

# SAC-3P-M12MSS/ 1,5-PVC PE - Power cable



1425623

<https://www.phoenixcontact.com/us/products/1425623>

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 straight M12, coding: S, on free cable end, cable length: 1.5 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	1425623
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Product key	AF1CBB
GTIN	4055626428321
Weight per piece (including packing)	148.5 g
Weight per piece (excluding packing)	148.5 g
Country of origin	PL

# SAC-3P-M12MSS/ 1,5-PVC PE - Power cable



1425623

<https://www.phoenixcontact.com/us/products/1425623>

## 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	Plug straight M12
Coding type	S (Power)

#### Connection 2

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

### Cable/line

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

PVC black [PVC]

# SAC-3P-M12MSS/ 1,5-PVC PE - Power cable



1425623

<https://www.phoenixcontact.com/us/products/1425623>

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 mm <sup>2</sup>
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 According to DIN EN 60332-1-2 According to VW-1 According to FT1
Ambient temperature (operation)	-40 °C ... 90 °C (cable, fixed installation) -5 °C ... 90 °C (Cable, flexible installation)

## Environmental and real-life conditions

### Ambient conditions

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

# SAC-3P-M12MSS/ 1,5-PVC PE - Power cable



1425623

<https://www.phoenixcontact.com/us/products/1425623>

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-M12MSS/ 1,5-PVC PE - Power cable



1425623

<https://www.phoenixcontact.com/us/products/1425623>

## Drawings



Plug, M12 x 1, straight

Schematic diagram



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

# SAC-3P-M12MSS/ 1,5-PVC PE - Power cable



1425623

<https://www.phoenixcontact.com/us/products/1425623>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1425623>

 <b>UL Listed</b> 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	- 16	- 16

 <b>cUL Listed</b> 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	- 16	-

# SAC-3P-M12MSS/ 1,5-PVC PE - Power cable



1425623

<https://www.phoenixcontact.com/us/products/1425623>

## Classifications

### ECLASS

ECLASS-13.0	27060327
ECLASS-15.0	27060327

### ETIM

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

### UNSPSC

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

# SAC-3P-M12MSS/ 1,5-PVC PE - Power cable



1425623

<https://www.phoenixcontact.com/us/products/1425623>

## 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%
-------------------------------------	----------------------------

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)