

# SAC-5P- 5,0-PVC/M12FRK PE - Power cable



1414808

<https://www.phoenixcontact.com/us/products/1414808>

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, 5-position, PVC, black-gray RAL 7021, free cable end, on Socket angled M12, coding: K, cable length: 5 m, for AC current up to 16 A/690 V

## Your advantages

- Easy and safe: 100 % electrically tested plug-in components
- Protection against mismatching, thanks to special K-coding

## Commercial data

Item number	1414808
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF05
Product key	AF1CDQ
GTIN	4055626034423
Weight per piece (including packing)	1,100.54 g
Weight per piece (excluding packing)	1,100.54 g
Customs tariff number	85444290
Country of origin	PL

# SAC-5P- 5,0-PVC/M12FRK PE - Power cable



1414808

<https://www.phoenixcontact.com/us/products/1414808>

## Technical data

### Product properties

Product type	Power cable
Application	Energy supply
Number of positions	5
No. of cable outlets	1
Shielded	no
Coding	K

### 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	$\geq 100$
-----------------------------	------------

### Connector

#### Connection 1

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

#### Connection 2

Type	Socket angled M12
Coding type	K (Power)

### Cable/line

Cable length	5 m
--------------	-----


PVC black [PVC]

# SAC-5P- 5,0-PVC/M12FRK PE - Power cable



1414808

<https://www.phoenixcontact.com/us/products/1414808>

Dimensional drawing	
Cable weight	220 kg/km
UL AWM Style	2570 / 10914 (80°C/1000 V)
Number of positions	5
Shielded	no
Cable type	PVC black [PVC]
Conductor structure, voltage supply	141x 0.15 mm
AWG power supply	14
Conductor cross-section	5x 2.5 mm <sup>2</sup>
Wire diameter incl. insulation	3 mm ±0.1 mm
External cable diameter	10.75 mm ±0.3 mm
Outer sheath, material	PVC
External sheath, color	black-gray RAL 7021
Conductor material	Bare Cu litz wires
Material wire insulation	PVC
Single wire, color	black 1, black 2, black 3, black 4, green/yellow
Thickness, insulation	≥ 0.36 mm
Thickness, outer sheath	approx. 0.76 mm
Max. conductor resistance	≤ 8 Ω/km (at 20 °C)
Insulation resistance	≥ 100 MΩ*km (at 20 °C)
Nominal voltage, cable	≤ 1000 V AC
Test voltage	≥ 10000 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	54 mm
Smallest bending radius, movable installation	108 mm
Dynamic load capacity (bending)	Max. bending cycles: 2000000, Bending radius: 10 x D, Traversing path: 10 m, Traversing rate: 3 m/s, Acceleration: 10 m/s <sup>2</sup>
Flame resistance	According to UL 758/1581 (Cable Flame) according to UL 758/1581 FT1 According to DIN EN 60332-1-2
Resistance to oil	according to DIN EN 60811-404, 168 h at 60 °C
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation) -20 °C ... 80 °C (Cable, flexible installation)

## Environmental and real-life conditions

# SAC-5P- 5,0-PVC/M12FRK PE - Power cable



1414808

<https://www.phoenixcontact.com/us/products/1414808>

## Ambient conditions

Degree of protection	IP65
	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-5P- 5,0-PVC/M12FRK PE - Power cable

1414808

<https://www.phoenixcontact.com/us/products/1414808>



## Drawings

Dimensional drawing



M12 x 1 socket, angled

1414808

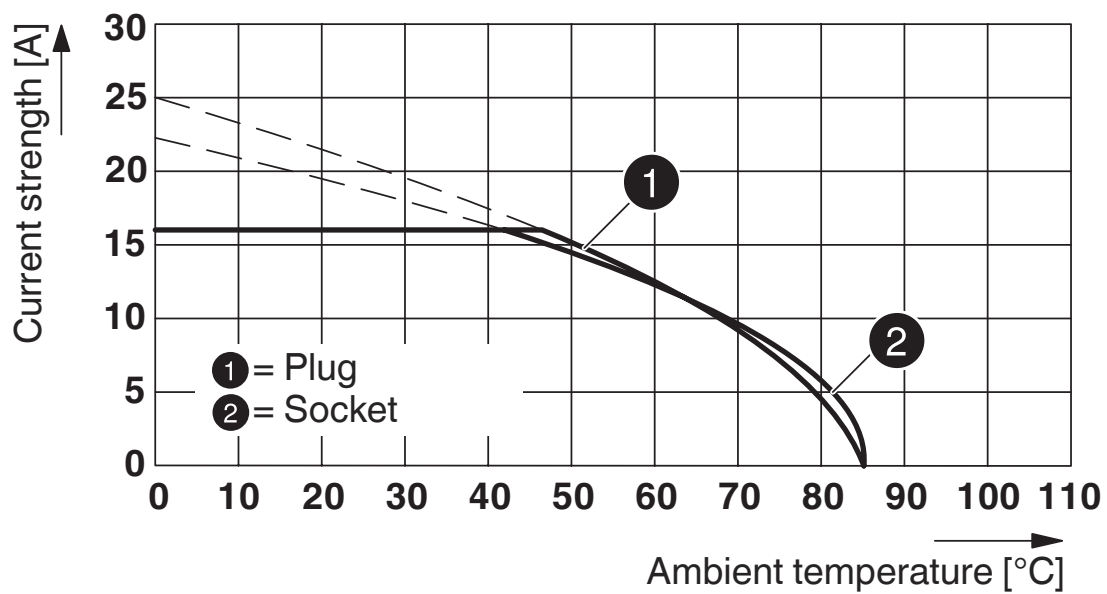
<https://www.phoenixcontact.com/us/products/1414808>

Schematic diagram



Pin assignment of M12 socket, 5-pos., K-coded, socket side view

Diagram



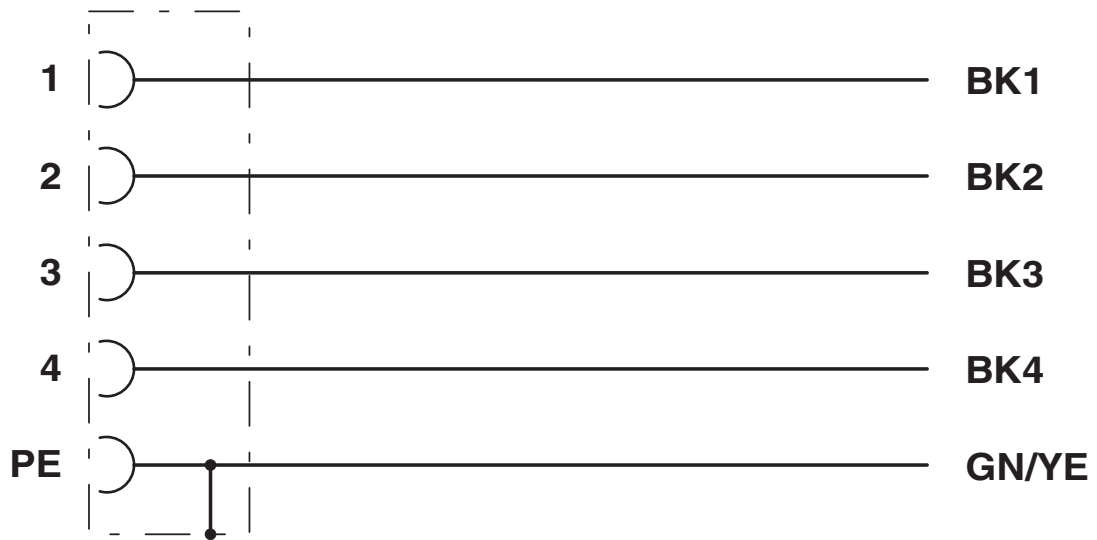
# SAC-5P- 5,0-PVC/M12FRK PE - Power cable



1414808

<https://www.phoenixcontact.com/us/products/1414808>

Circuit diagram



Contact assignment of the M12 socket

# SAC-5P- 5,0-PVC/M12FRK PE - Power cable




1414808

<https://www.phoenixcontact.com/us/products/1414808>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1414808>

 <b>UL Listed</b> Approval ID: E468743				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine				
	600 V	16 A	- 14	- 14

 <b>cUL Listed</b> Approval ID: E468743				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine				
	600 V	16 A	- 14	-

 <b>EAC-RoHS</b> Approval ID: RU D-DE.HB35.B.00387	
--	--

# SAC-5P- 5,0-PVC/M12FRK PE - Power cable



1414808

<https://www.phoenixcontact.com/us/products/1414808>

## Classifications

### ECLASS

ECLASS-13.0	27060327
ECLASS-15.0	27060327

### ETIM

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

### UNSPSC

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

# SAC-5P- 5,0-PVC/M12FRK PE - Power cable



1414808

<https://www.phoenixcontact.com/us/products/1414808>

## 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	9.05 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)