chanhvinh.com

SAC-5P-M12MSK/ 1,5-PVC PE - Power cable

1414868

https://www.phoenixcontact.com/gb/products/1414868

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, Plug straight M12, coding: K, on free cable end, cable length: 1.5 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	1414868
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF1CDQ
Product key	BF1CDQ
Catalog page	Page 293 (C-2-2019)
GTIN	4055626035000
Weight per piece (including packing)	365 g
Weight per piece (excluding packing)	353.6 g
Customs tariff number	85444290
Country of origin	PL

chanhvinh.com

SAC-5P-M12MSK/ 1,5-PVC PE - Power cable

1414868

https://www.phoenixcontact.com/gb/products/1414868

Technical data

Product properties

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

Data management status

Article revision	06

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	≥ 100 MΩ
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	K (Power)

Connection 2

Type	free cable end

Cable/line

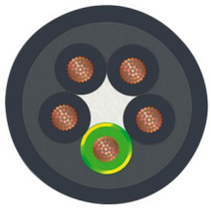
Cable length	1.5 m

SAC-5P-M12MSK/ 1,5-PVC PE - Power cable

1414868

https://www.phoenixcontact.com/gb/products/1414868

PVC black [PVC]

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 cross section	5x 2.5 mm²
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/s²
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

chanhvinh.com

SAC-5P-M12MSK/ 1,5-PVC PE - Power cable

1414868

https://www.phoenixcontact.com/gb/products/1414868

Ambient conditions

Degree of protection	IP65
	IP67 (without preloading, as additional test in accordance with IEC 60529)
Ambient temperature (operation)	-25 °C ... 85 °C (Plug / socket)

Standards and regulations

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

chanhvinh.com

SAC-5P-M12MSK/ 1,5-PVC PE - Power cable

1414868

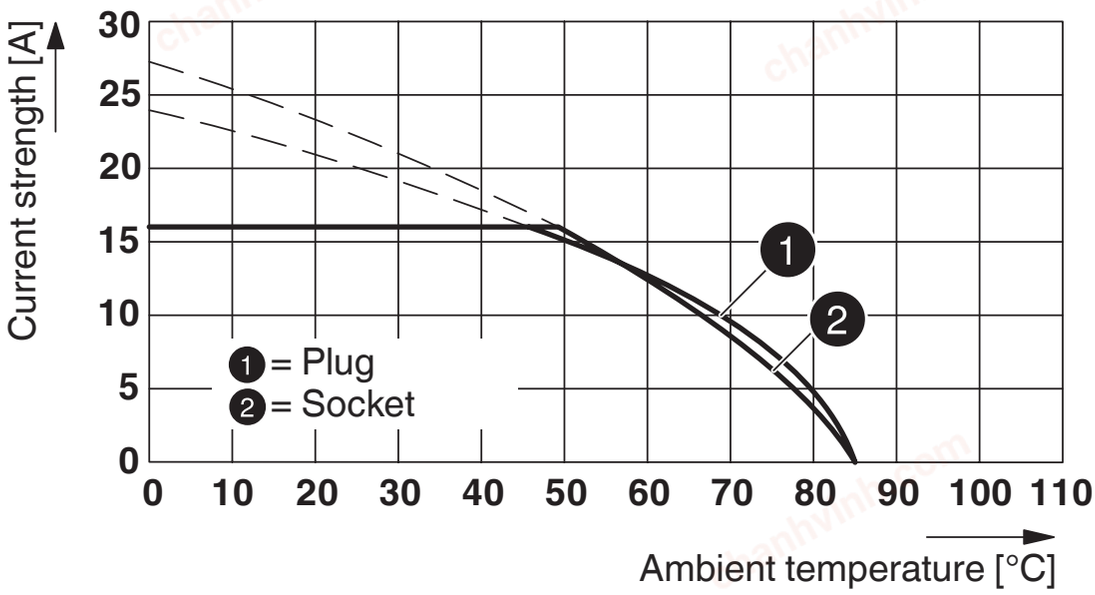
https://www.phoenixcontact.com/gb/products/1414868

Drawings

Circuit diagram



Diagram



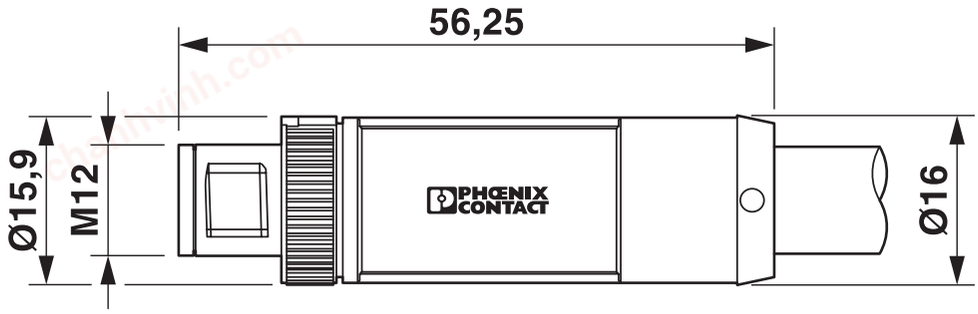
chanhvinh.com

SAC-5P-M12MSK/ 1,5-PVC PE - Power cable

1414868

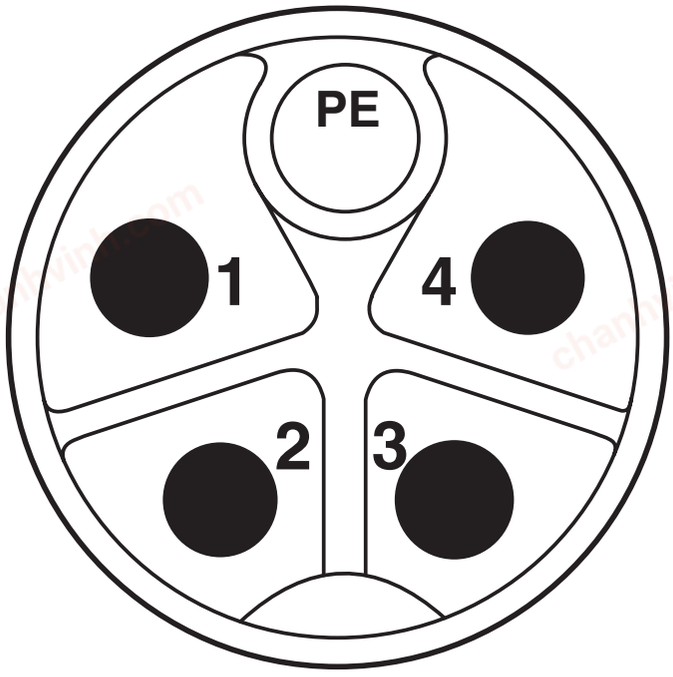
https://www.phoenixcontact.com/gb/products/1414868

Dimensional drawing



Plug, M12 x 1, straight, shielded

Schematic diagram



Connector pin assignment of M12 plug, 5-pos., K-coded, pin side view

chanhvinh.com

SAC-5P-M12MSK/ 1,5-PVC PE - Power cable

1414868

https://www.phoenixcontact.com/gb/products/1414868

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/gb/products/1414868

UL Listed
Approval ID: E468743

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	600 V	16 A	-	- 14

cUL Listed
Approval ID: E468743

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	600 V	16 A	- 14	-

EAC-RoHS
Approval ID: RU D-DE.HB35.B.00387

cULus Listed

chanhvinh.com

SAC-5P-M12MSK/ 1,5-PVC PE - Power cable

1414868

https://www.phoenixcontact.com/gb/products/1414868

Classifications

ECLASS

ECLASS-11.0	27060311
ECLASS-12.0	27060311
ECLASS-13.0	27060327

ETIM

ETIM 9.0	EC001855

UNSPSC

UNSPSC 21.0	26121600

chanhvinh.com

SAC-5P-M12MSK/ 1,5-PVC PE - Power cable

1414868

https://www.phoenixcontact.com/gb/products/1414868

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%

EF3.0 Climate Change

CO2e kg	3.778 kg CO2e

Phoenix Contact 2024 © - all rights reserved
https://www.phoenixcontact.com

PHOENIX CONTACT Ltd
Halesfield 13, Telford
Shropshire, TF7 4PG
01952 681700
info@phoenixcontact.co.uk