chanhvinh.com

SAC-6P-10,0-PVC/M12FSM PE SH - Power cable

1414931

https://www.phoenixcontact.com/gb/products/1414931

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, 6-position, PVC, orange RAL 2003, shielded (Advanced Shielding Technology), free cable end, on Socket straight M12, coding: M, cable length: 10 m, for AC current up to 8 A/690 V

Your advantages

- Easy and safe: 100 % electrically tested plug-in components
- Protection against mismatching, thanks to special M-coding
- Shield power reliably – 360° shielding to reduce electromagnetic loads

Commercial data

Item number	1414931
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF1CGP
Product key	BF1CGP
Catalog page	Page 299 (C-2-2019)
GTIN	4055626035598
Weight per piece (including packing)	2,016.39 g
Weight per piece (excluding packing)	2,016.39 g
Customs tariff number	85444290
Country of origin	PL

chanhvinh.com

SAC-6P-10,0-PVC/M12FSM PE SH - Power cable

1414931

https://www.phoenixcontact.com/gb/products/1414931

Technical data

Product properties

Product type	Power cable
Application	Power supply
Number of positions	6
No. of cable outlets	1
Shielded	yes
Coding	M

Data management status

Article revision	00

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	8 A

Connector

Connection 1

Type	free cable end

Connection 2

Type	Socket straight M12
Coding type	M (Power)

Cable/line

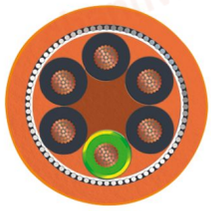
Cable length	10 m

PVC orange [PVC]

SAC-6P-10,0-PVC/M12FSM PE SH - Power cable

1414931

https://www.phoenixcontact.com/gb/products/1414931

Dimensional drawing	
Cable weight	192 kg/km
UL AWM Style	2570 / 10914 (80°C/1000 V)
Number of positions	6
Shielded	yes
Cable type	PVC orange [PVC]
Conductor cross section	6x 1.5 mm²
Wire diameter incl. insulation	2.4 mm ±0.05 mm
External cable diameter	10.40 mm ±0.25 mm
Outer sheath, material	PVC
External sheath, color	orange RAL 2003
Conductor material	Bare Cu litz wires
Material wire insulation	PVC
Single wire, color	black 1, black 2, black 3, black 4, black 5, green/yellow
Thickness, insulation	≥ 0.36 mm
Thickness, outer sheath	approx. 0.76 mm
Max. conductor resistance	≤ 15 Ω/m (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	52 mm
Smallest bending radius, movable installation	104 mm
Dynamic load capacity (bending)	Max. bending cycles: 1000000, 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

Ambient conditions

Degree of protection	IP65

chanhvinh.com

SAC-6P-10,0-PVC/M12FSM PE SH - Power cable

1414931

https://www.phoenixcontact.com/gb/products/1414931

	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

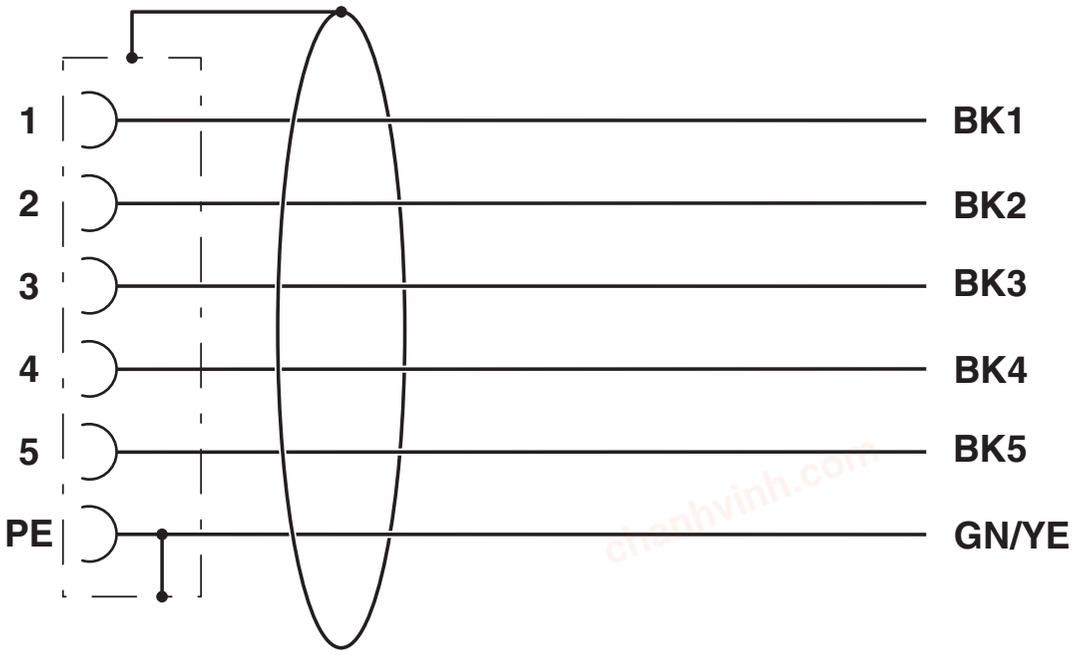
SAC-6P-10,0-PVC/M12FSM PE SH - Power cable

1414931

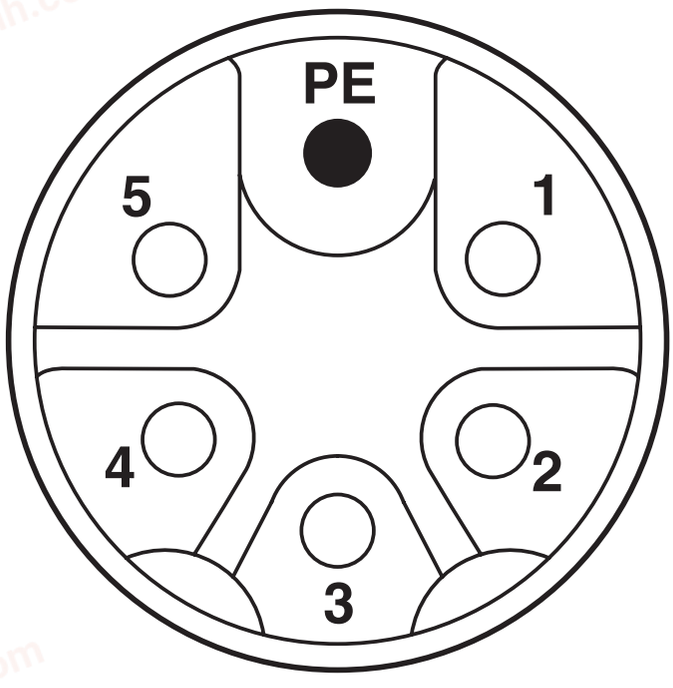
https://www.phoenixcontact.com/gb/products/1414931

Drawings

Circuit diagram



Schematic diagram



Pin assignment of M12 socket, 6-pos., M-coded, socket side view

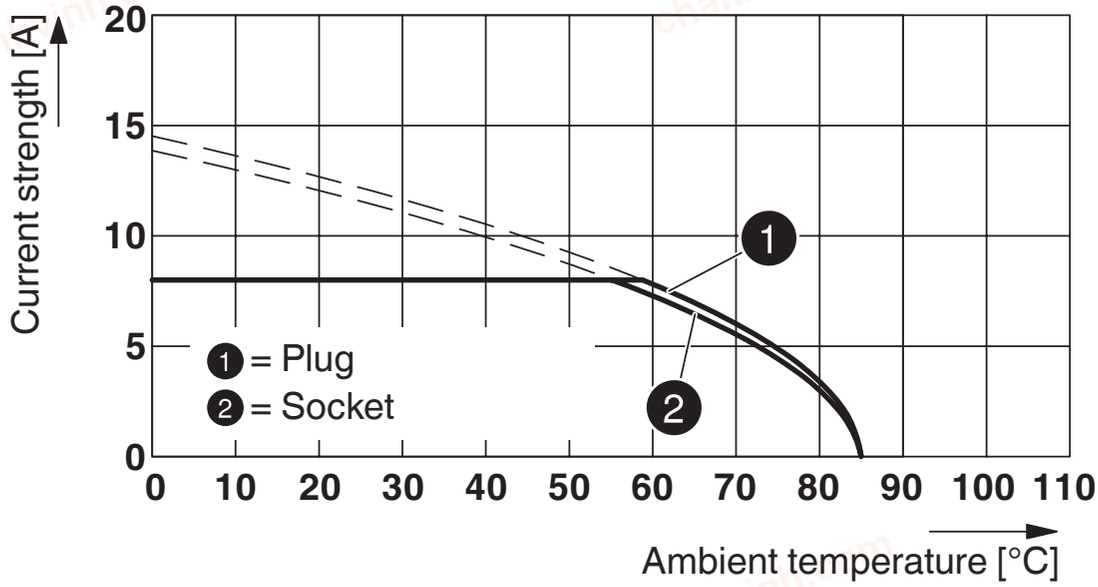
chanhvinh.com

SAC-6P-10,0-PVC/M12FSM PE SH - Power cable

1414931

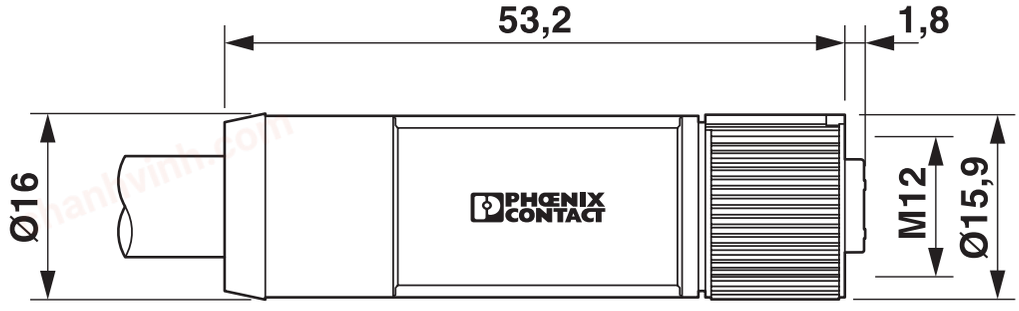
https://www.phoenixcontact.com/gb/products/1414931

Diagram



Derating diagram

Dimensional drawing



M12 x 1 socket, straight

chanhvinh.com

SAC-6P-10,0-PVC/M12FSM PE SH - Power cable

1414931

https://www.phoenixcontact.com/gb/products/1414931

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/gb/products/1414931

UL Listed
Approval ID: E468743

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	600 V	10 A	-	- 16

cUL Listed
Approval ID: E468743

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	600 V	10 A	- 16	-

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

cULus Listed

chanhvinh.com

SAC-6P-10,0-PVC/M12FSM PE SH - Power cable

1414931

https://www.phoenixcontact.com/gb/products/1414931

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-6P-10,0-PVC/M12FSM PE SH - Power cable

1414931

https://www.phoenixcontact.com/gb/products/1414931

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

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