chanhvinh.com

SAC-4P- 5,0-PVC/M12FRL - Power cable

1425099

https://www.phoenixcontact.com/gb/products/1425099

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, 4-position, PVC, black-gray RAL 7021, free cable end, on Socket angled M12, coding: L, cable length: 5 m, for direct current up to 16 A/63 V

Your advantages

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

Commercial data

Item number	1425099
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF1CCR
Product key	BF1CCR
Catalog page	Page 297 (C-2-2019)
GTIN	4055626384375
Weight per piece (including packing)	871.1 g
Weight per piece (excluding packing)	871.1 g
Customs tariff number	85444290
Country of origin	PL

chanhvinh.com

SAC-4P- 5,0-PVC/M12FRL - Power cable

1425099

https://www.phoenixcontact.com/gb/products/1425099

Technical data

Product properties

Product type	Power cable
Application	Power supply
Number of positions	4
No. of cable outlets	1
Shielded	no
Coding	L

Data management status

Article revision	04

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	63 V DC
Nominal current I_N	16 A

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100

Connector

Connection 1

Type	free cable end

Connection 2

Type	Socket angled M12
Coding type	L (Power)

Cable/line

Cable length	5 m

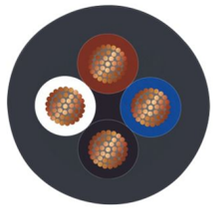
chanhvinh.com

SAC-4P- 5,0-PVC/M12FRL - Power cable

1425099

https://www.phoenixcontact.com/gb/products/1425099

PVC black [PVC]

Dimensional drawing	
Cable weight	168 kg/km
UL AWM Style	20233 / 10493 (80°C/300 V)
Number of positions	4
Shielded	no
Cable type	PVC black [PVC]
Conductor cross section	4x 2.5 mm²
Wire diameter incl. insulation	3 mm ±0.1 mm
External cable diameter	9.50 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	brown, white, blue, black
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	≤ 300 V AC
Test voltage	≥ 3000 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	48 mm
Smallest bending radius, movable installation	95 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-4P- 5,0-PVC/M12FRL - Power cable

1425099

https://www.phoenixcontact.com/gb/products/1425099

Ambient conditions

Degree of protection	IP65
	IP67
Ambient temperature (operation)	-25 °C ... 85 °C (Plug / socket)

Standards and regulations

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

chanhvinh.com

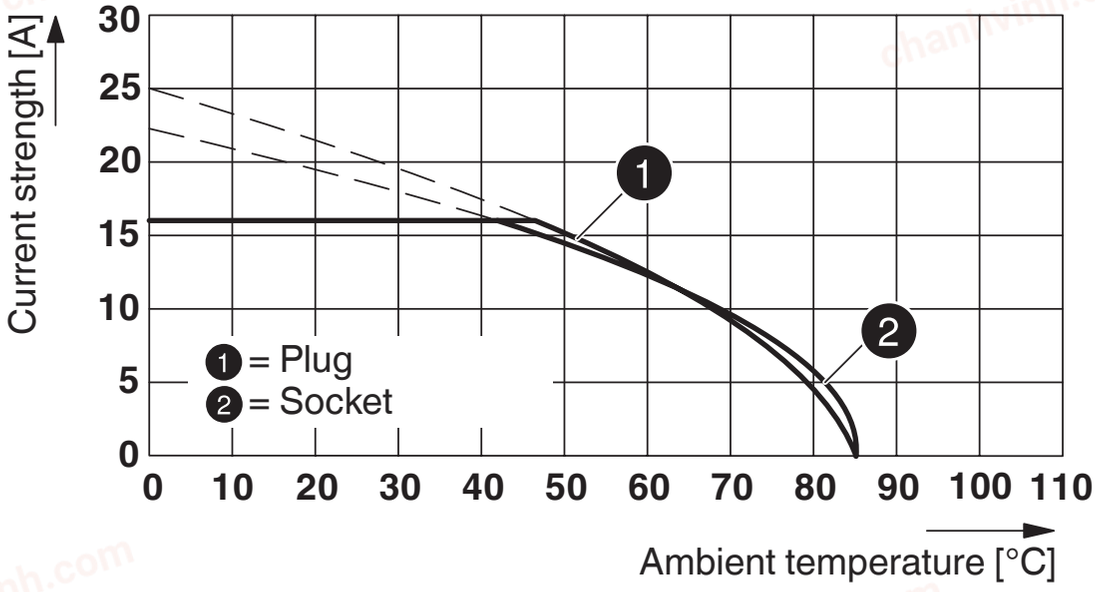
SAC-4P- 5,0-PVC/M12FRL - Power cable

1425099

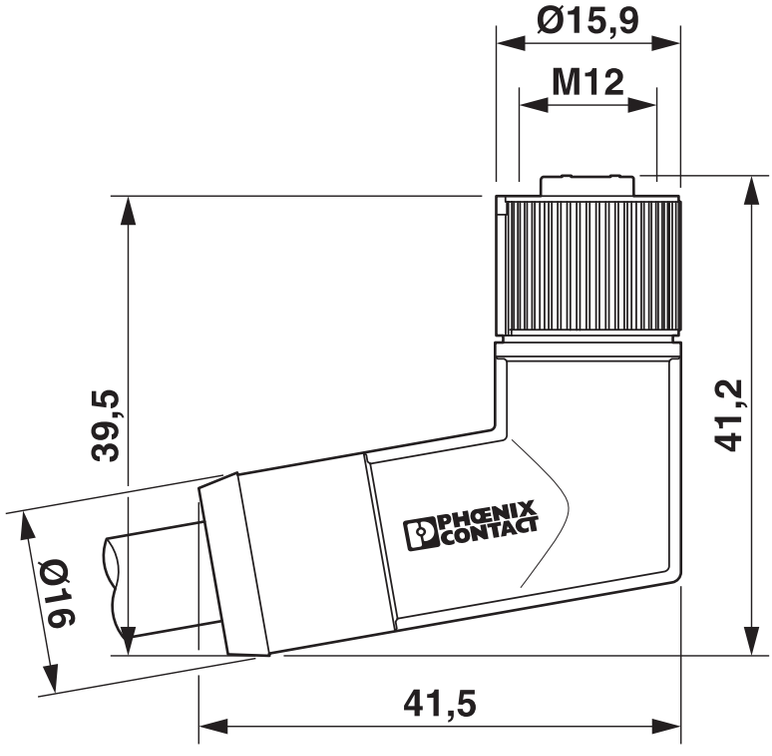
https://www.phoenixcontact.com/gb/products/1425099

Drawings

Diagram



Dimensional drawing



M12 x 1 socket, angled

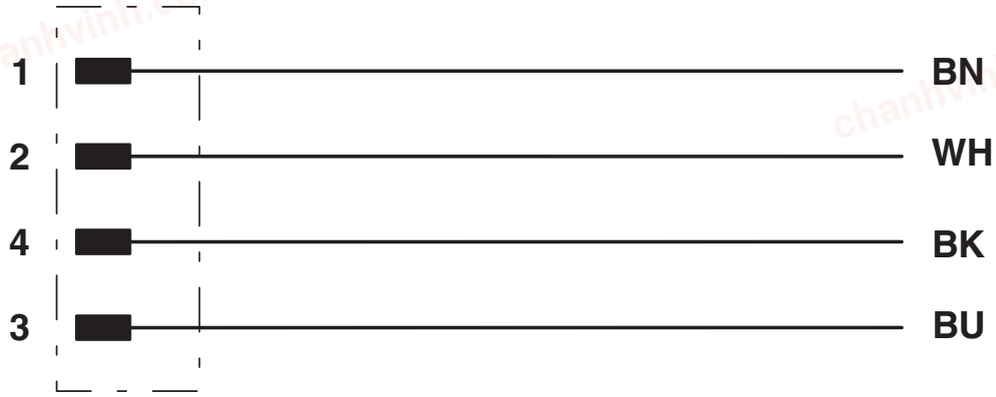
chanhvinh.com

SAC-4P- 5,0-PVC/M12FRL - Power cable

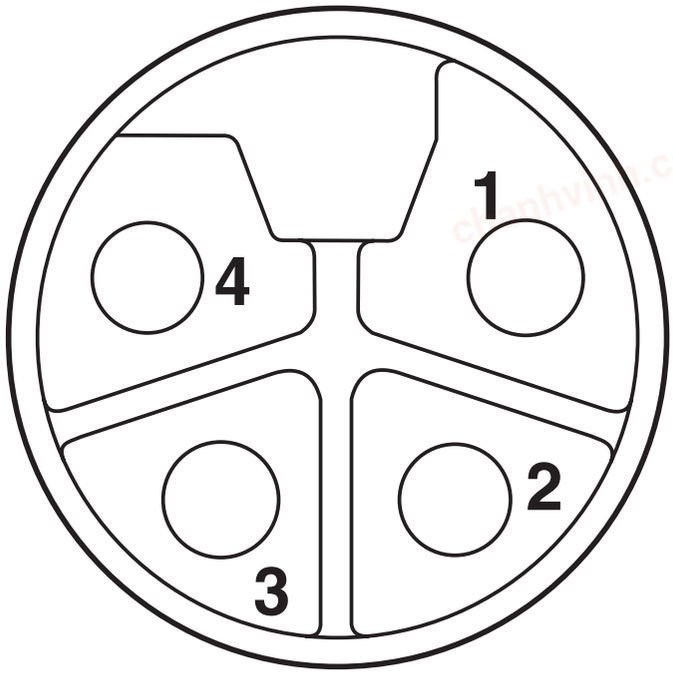
1425099

https://www.phoenixcontact.com/gb/products/1425099

Circuit diagram



Schematic diagram



Pin assignment of M12 socket, 4-pos.

chanhvinh.com

SAC-4P- 5,0-PVC/M12FRL - Power cable

1425099

https://www.phoenixcontact.com/gb/products/1425099

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/gb/products/1425099

UL Listed
Approval ID: E468743

cUL Listed
Approval ID: E468743

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

cULus Listed

chanhvinh.com

SAC-4P- 5,0-PVC/M12FRL - Power cable

1425099

https://www.phoenixcontact.com/gb/products/1425099

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-4P- 5,0-PVC/M12FRL - Power cable

1425099

https://www.phoenixcontact.com/gb/products/1425099

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	7.396 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