chanhvinh.com

SAC-4P-M12MRT/10,0-PUR/M12FRT - Power cable

1415199

https://www.phoenixcontact.com/gb/products/1415199

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, PUR halogen-free, black-gray RAL 7021, Plug angled M12, coding: T, on Socket angled M12, coding: T, cable length: 10 m, For direct current up to 12 A/63 V

Your advantages

- Easy and safe: 100 % electrically tested plug-in components
- Protection against incorrect connection using special T-coding
- Our standard: robust halogen-free PUR cable

Commercial data

Item number	1415199
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	BF1CCQ
Product key	BF1CCQ
Catalog page	Page 185 (C-6-2019)
GTIN	4055626041247
Weight per piece (including packing)	1,102.6 g
Weight per piece (excluding packing)	1,102.6 g
Customs tariff number	85444290
Country of origin	PL

chanhvinh.com

SAC-4P-M12MRT/10,0-PUR/M12FRT - Power cable

1415199

https://www.phoenixcontact.com/gb/products/1415199

Technical data

Product properties

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

Data management status

Article revision	08

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	12 A

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	> 100

Connector

Connection 1

Type	Plug angled M12
Coding type	T (Power)

Connection 2

Type	Socket angled M12
Coding type	T (Power)

Cable/line

chanhvinh.com

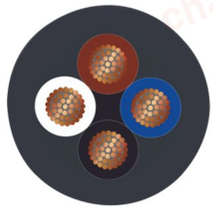
SAC-4P-M12MRT/10,0-PUR/M12FRT - Power cable

1415199

https://www.phoenixcontact.com/gb/products/1415199

Cable length	10 m

PUR halogen-free black [PUR]

Dimensional drawing	
Cable weight	83 kg/km
UL AWM Style	20549 / 10493 (80°C/300 V)
Number of positions	4
Shielded	no
Cable type	PUR halogen-free black [PUR]
Conductor cross section	4x 1.5 mm²
Wire diameter incl. insulation	2.2 mm ±0.05 mm
External cable diameter	6.75 mm ±0.2 mm
Outer sheath, material	PUR
External sheath, color	black-gray RAL 7021
Conductor material	Bare Cu litz wires
Material wire insulation	PP
Single wire, color	brown, white, blue, black
Thickness, insulation	≥ 0.26 mm
Thickness, outer sheath	approx. 0.70 mm
Overall twist	4 wires, twisted
Max. conductor resistance	≤ 14.1 Ω/km (at 20 °C)
Insulation resistance	≥ 1 GΩ*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	34 mm
Smallest bending radius, movable installation	68 mm
Dynamic load capacity (bending)	Max. bending cycles: 4000000, Bending radius: 10 x D, Traversing path: 10 m, Traversing rate: 3 m/s, Acceleration: 10 m/s²
Halogen-free	in accordance with DIN VDE 0472 part 815
	in accordance with DIN EN 50267-2-1
Flame resistance	According to UL 758/1581 (Cable Flame)
	in accordance with UL 758/1581 FT2
	according to DIN EN 60332-2-2
Resistance to oil	according to DIN EN 60811-404, 168 h at 100 °C
	according to UL 758, 168 h at 60 °C

chanhvinh.com

Other resistance	Hydrolysis and microbe resistant as per VDE 0282 section 10
	Low adhesion
	abrasion-resistant
	Resistant to salt water
Ambient temperature (operation)	-50 °C ... 80 °C (cable, fixed installation)
	-30 °C ... 80 °C (Cable, flexible installation)

Environmental and real-life conditions

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

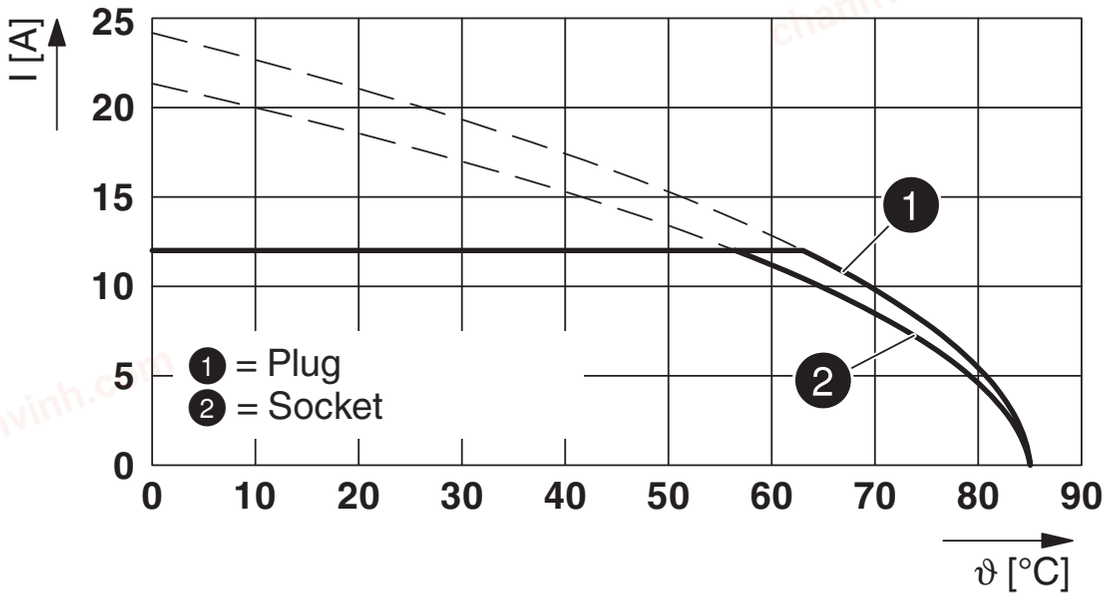
SAC-4P-M12MRT/10,0-PUR/M12FRT - Power cable

1415199

https://www.phoenixcontact.com/gb/products/1415199

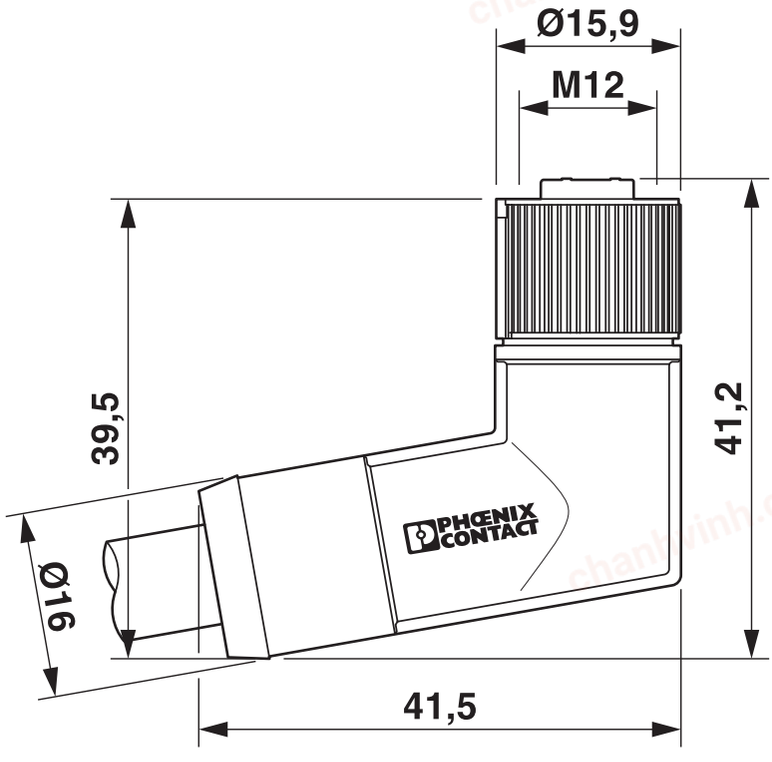
Drawings

Diagram



Base curve

Dimensional drawing



M12 x 1 socket, angled

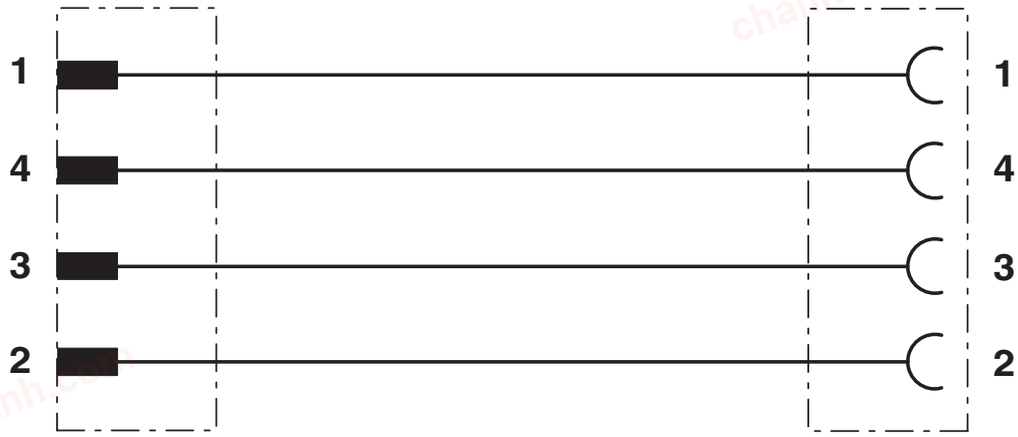
chanhvinh.com

SAC-4P-M12MRT/10,0-PUR/M12FRT - Power cable

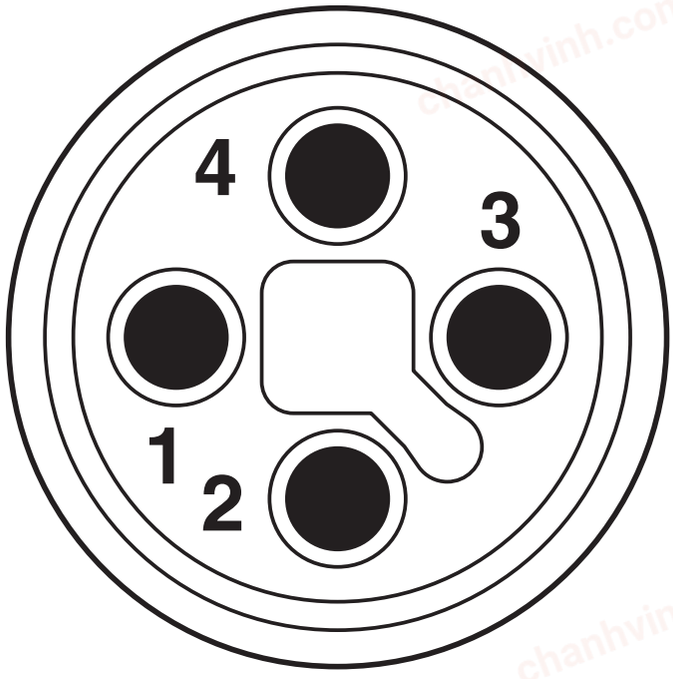
1415199

https://www.phoenixcontact.com/gb/products/1415199

Circuit diagram



Schematic diagram



Pin assignment for M12 plug, 4-pos., T-coded, view of plug side

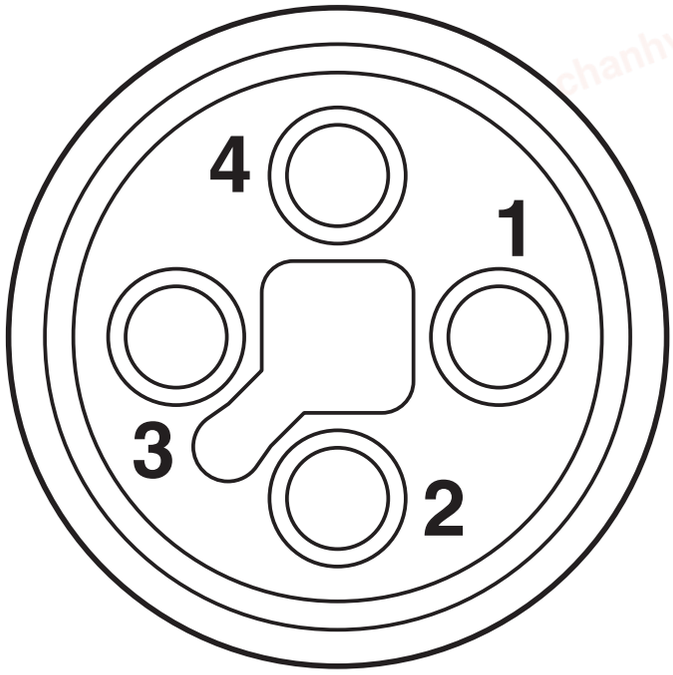
chanhvinh.com

SAC-4P-M12MRT/10,0-PUR/M12FRT - Power cable

1415199

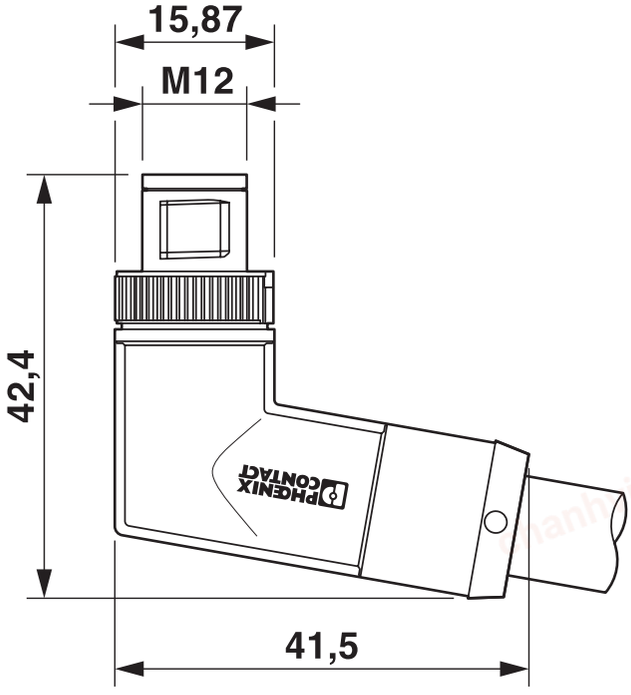
https://www.phoenixcontact.com/gb/products/1415199

Schematic diagram



Pin assignment of M12 socket, 4-pos., T-coded, socket side view

Dimensional drawing



M12 x 1 male plug, angled

chanhvinh.com

SAC-4P-M12MRT/10,0-PUR/M12FRT - Power cable

1415199

https://www.phoenixcontact.com/gb/products/1415199

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/gb/products/1415199

UL Listed
Approval ID: E468743

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	63 V	12 A	-	- 16

cUL Listed
Approval ID: E468743

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	63 V	12 A	- 16	-

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

cULus Listed

chanhvinh.com

SAC-4P-M12MRT/10,0-PUR/M12FRT - Power cable

1415199

https://www.phoenixcontact.com/gb/products/1415199

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-M12MRT/10,0-PUR/M12FRT - Power cable

1415199

https://www.phoenixcontact.com/gb/products/1415199

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	5.94 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