chanhvinh.com

SAC-4P-M12MST/ 5,0-PUR/FST SH - Power cable

1417687

https://www.phoenixcontact.com/gb/products/1417687

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 RAL 9005, shielded (Advanced Shielding Technology), Plug straight M12, coding: T, on Socket straight M12, coding: T, cable length: 5 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
- Shield power reliably – 360° shielding to reduce electromagnetic loads

Commercial data

Item number	1417687
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	AF1CCQ
Product key	AF1CCQ
GTIN	4055626124827
Weight per piece (including packing)	758 g
Weight per piece (excluding packing)	758 g
Customs tariff number	85444290
Country of origin	PL

chanhvinh.com

SAC-4P-M12MST/ 5,0-PUR/FST SH - Power cable

1417687

https://www.phoenixcontact.com/gb/products/1417687

Technical data

Product properties

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

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 straight M12
Coding type	T (Power)

Connection 2

Type	Socket straight M12
Coding type	T (Power)

Cable/line

Cable length	5 m

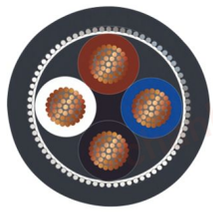
PUR halogen-free black [PUR]

chanhvinh.com

SAC-4P-M12MST/ 5,0-PUR/FST SH - Power cable

1417687

https://www.phoenixcontact.com/gb/products/1417687

Dimensional drawing	
Cable weight	99 kg/km
UL AWM Style	20549 / 10493 (80°C/300 V)
Number of positions	4
Shielded	yes
Cable type	PUR halogen-free black [PUR]
Conductor structure, voltage supply	44x 0.20 mm
AWG power supply	16
Conductor cross section	4x 1.5 mm²
Wire diameter incl. insulation	2.2 mm ±0.05 mm
External cable diameter	7.50 mm ±0.3 mm
Outer sheath, material	PUR
External sheath, color	black RAL 9005
Conductor material	Bare Cu litz wires
Material wire insulation	PP
Single wire, color	brown, white, blue, black
Thickness, insulation	0.80 mm (Outer cable sheath)
Overall twist	4 wires optimally 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
Smallest bending radius, fixed installation	38 mm
Smallest bending radius, movable installation	75 mm
Dynamic load capacity (bending)	Max. bending cycles: 5000000, Bending radius: 75 mm, Bending radius: 10 x D, Traversing path: 10 m, Traversing rate: 3 m/s, Acceleration: 10 m/s²
Dynamic load capacity (torsion)	Torsion: ±180 °/m, Torsion cycles: 500000, Torsional frequency: 35 cycles/min.
Halogen-free	in accordance with DIN VDE 0472 part 815
	according to IEC 60754-1
Flame resistance	in accordance with UL 758/1581 FT2
	DIN EN 60332-2-2 (20 s)
Resistance to oil	according to DIN EN 60811-404, 168 h at 100 °C
Ambient temperature (operation)	-50 °C ... 85 °C (cable, fixed installation)
	-30 °C ... 85 °C (Cable, flexible installation)

Environmental and real-life conditions

chanhvinh.com

SAC-4P-M12MST/ 5,0-PUR/FST SH - Power cable

1417687

https://www.phoenixcontact.com/gb/products/1417687

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

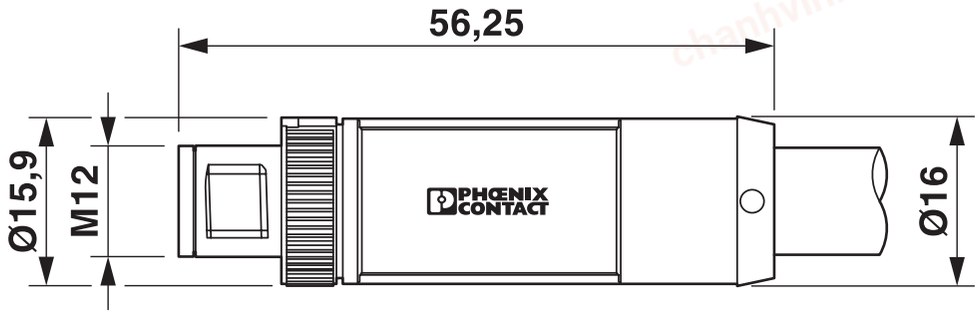
SAC-4P-M12MST/ 5,0-PUR/FST SH - Power cable

1417687

https://www.phoenixcontact.com/gb/products/1417687

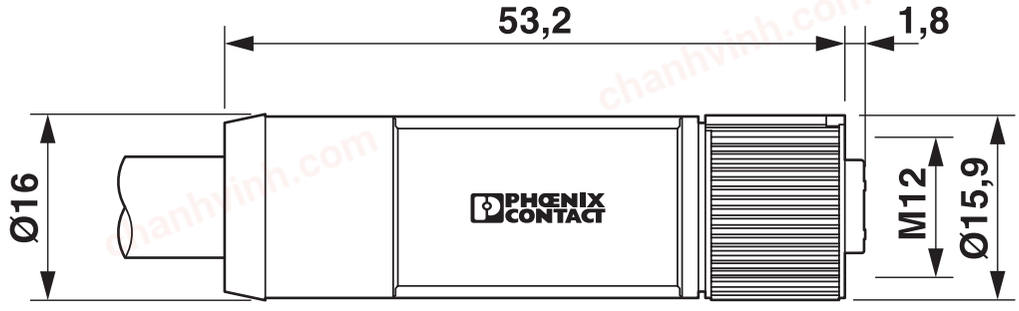
Drawings

Dimensional drawing



Plug, M12 x 1, straight

Dimensional drawing



M12 x 1 socket, straight

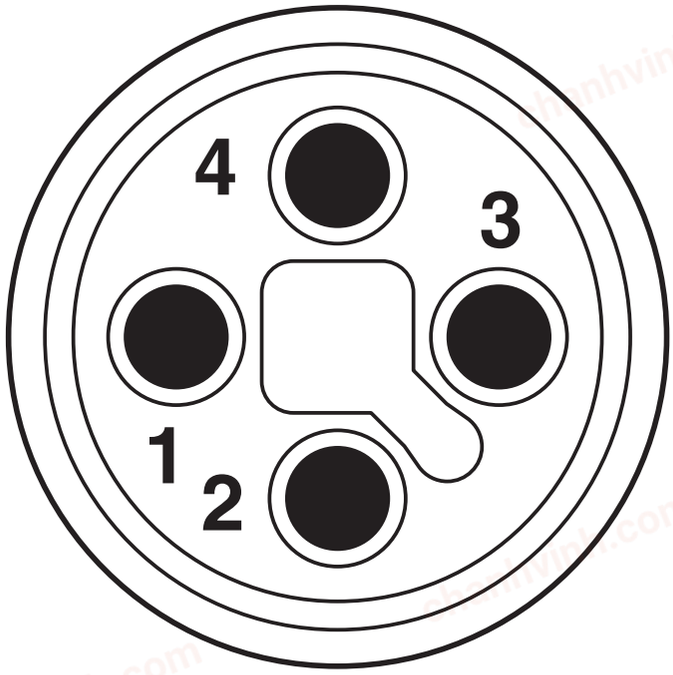
chanhvinh.com

SAC-4P-M12MST/ 5,0-PUR/FST SH - Power cable

1417687

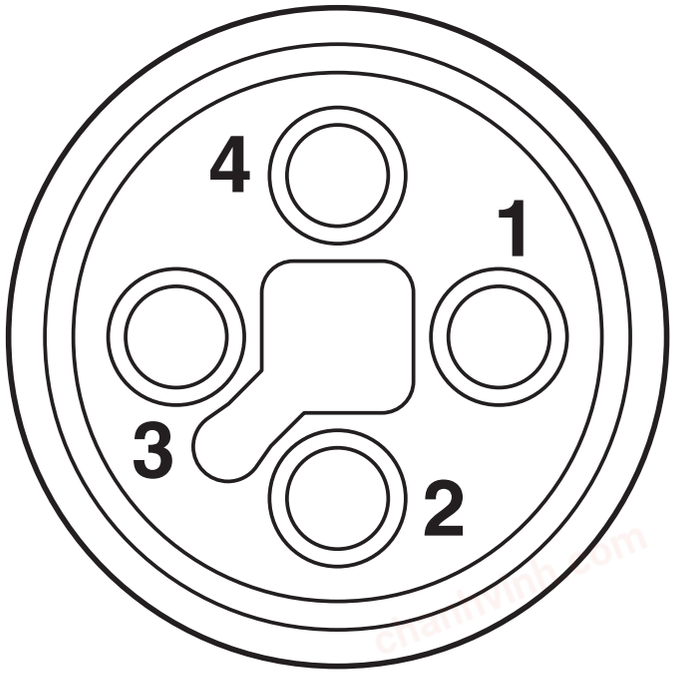
https://www.phoenixcontact.com/gb/products/1417687

Schematic diagram



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

Schematic diagram



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

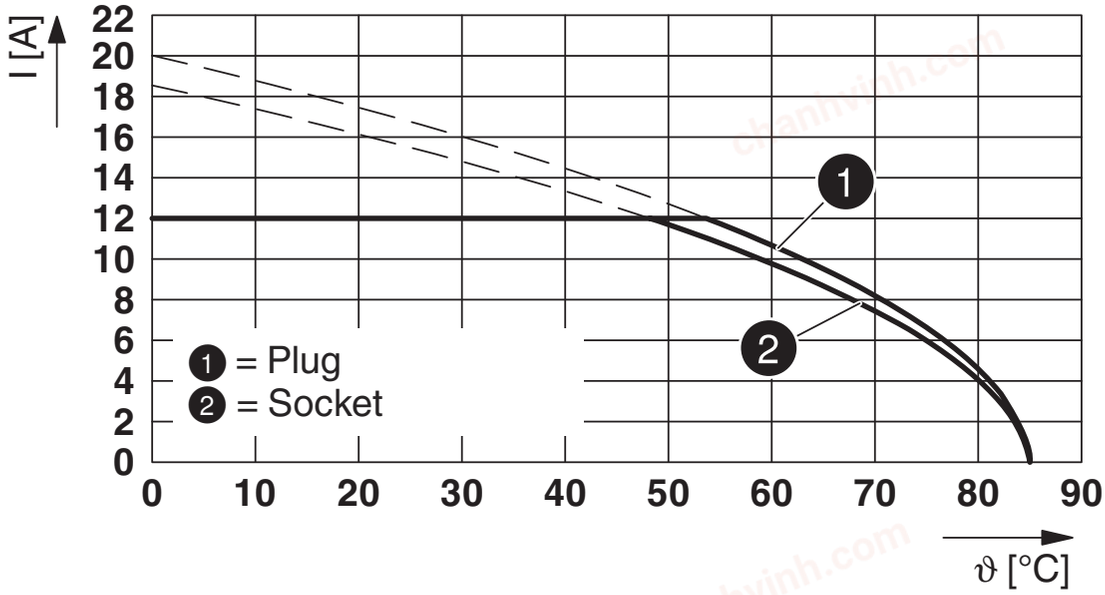
chanhvinh.com

SAC-4P-M12MST/ 5,0-PUR/FST SH - Power cable

1417687

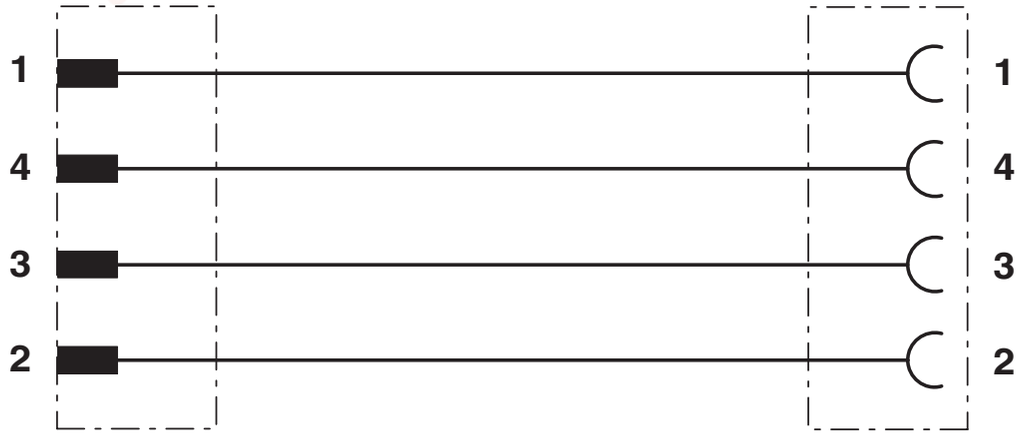
https://www.phoenixcontact.com/gb/products/1417687

Diagram



Base curve

Circuit diagram



Contact assignment of the M12 connector and the M12 socket

chanhvinh.com

SAC-4P-M12MST/ 5,0-PUR/FST SH - Power cable

1417687

https://www.phoenixcontact.com/gb/products/1417687

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/gb/products/1417687

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	-

chanhvinh.com

SAC-4P-M12MST/ 5,0-PUR/FST SH - Power cable

1417687

https://www.phoenixcontact.com/gb/products/1417687

Classifications

ECLASS

ECLASS-12.0	27060311
ECLASS-13.0	27060327

ETIM

ETIM 9.0	EC001855

UNSPSC

UNSPSC 21.0	26121600

chanhvinh.com

SAC-4P-M12MST/ 5,0-PUR/FST SH - Power cable

1417687

https://www.phoenixcontact.com/gb/products/1417687

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 2025 © - all rights reserved
https://www.phoenixcontact.com

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