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Power cable - SAC-4P-10,0-PUR/M12FST SH

1424115

https://www.phoenixcontact.com/gb/products/1424115

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Power cable, 4-position, PUR halogen-free, black RAL 9005, shielded (Advanced Shielding Technology), free cable end, on Socket straight 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
- Shield power reliably – 360° shielding to reduce electromagnetic loads
- Our standard: robust halogen-free PUR cable

Commercial Data

Item number	1424115
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	BF1CCQ
Product Key	BF1CCQ
Catalog Page	Page 290 (C-2-2019)
GTIN	4046356693196
Weight per Piece (including packing)	1,428 g
Weight per Piece (excluding packing)	1,428 g
Customs tariff number	85444290
Country of origin	PL

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Technical Data

Product properties

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

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Ambient conditions

Degree of protection	IP65
	IP67
Ambient temperature (operation)	-25 °C ... 85 °C (Plug / socket)
	0 °C ... 55 °C (Temperature range in accordance with GL)

Electrical properties

Contact resistance	≤ 5 mΩ
Insulation resistance	≥ 100 MΩ
Nominal voltage U_N	63 V DC
Nominal current I_N	12 A
Protective circuit	unwired

Connector

Insertion/withdrawal cycles	> 100

Connection 1

Head design	free cable end

Head 2

Head design	Socket
Head cable outlet	straight
Head thread type	M12
Coding	T

Material specifications

Color Handle area	black
Flammability rating according to UL 94	V0
Material of grip body	PP
Contact material	CuZn
Contact surface material	Ni/Au

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Contact carrier material	PA
Cable gland material	Zinc die-cast, nickel-plated

Cable / line

Cable length	10 m
Cable weight	133 kg/km
UL AWM Style	20233 / 10493 (80°C/300 V)
Number of positions	4
Shielded	yes
Cable type	PUR halogen-free black [PUR]
Conductor cross section	4x 1.5 mm²
Wire diameter incl. insulation	2.4 mm
External cable diameter	9.7 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	1.2 mm (Outer cable sheath)
Overall twist	4 wires optimally twisted
Max. conductor resistance	≤ 13.3 Ω/km (at 20 °C)
Insulation resistance	≥ 10 MΩ*km (at 20 °C)
Nominal voltage, cable	300 V AC
Test voltage	1500 V AC (5 min.)
Smallest bending radius, fixed installation	49 mm
Smallest bending radius, movable installation	73 mm
Max. bending cycles	4000000
Torsion force	± 25 °/m
Halogen-free	in accordance with DIN VDE 0472 part 815
	according to IEC 60754-1
Flame resistance	according to EN 60332-1-2
	in acc. to UL 1581 VW1
Resistance to oil	in accordance with DIN EN 60811-2-1
	According to DIN EN 50363-10-2
Ambient temperature (operation)	-40 °C ... 90 °C (cable, fixed installation)
	-30 °C ... 90 °C (Cable, flexible installation)

Standards and regulations

Standards/specifications	IEC 61076-2-111

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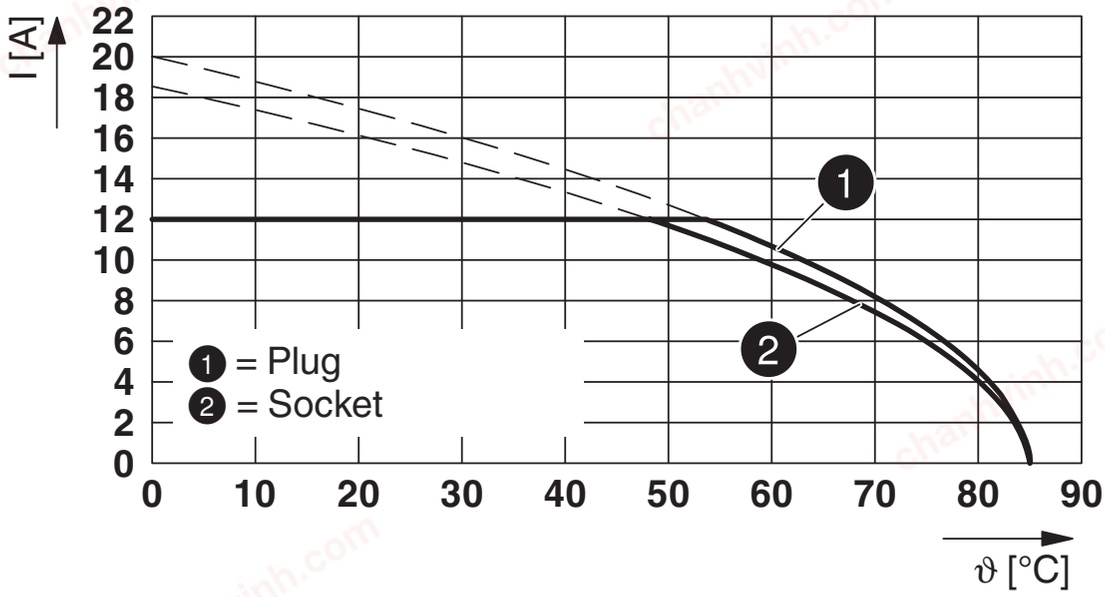
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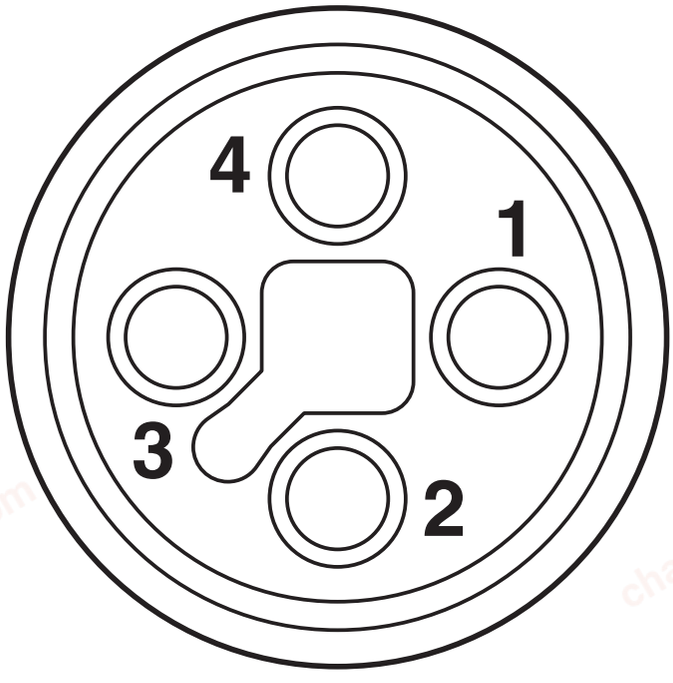
Drawings

Diagram



Current carrying capacity

Schematic diagram



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

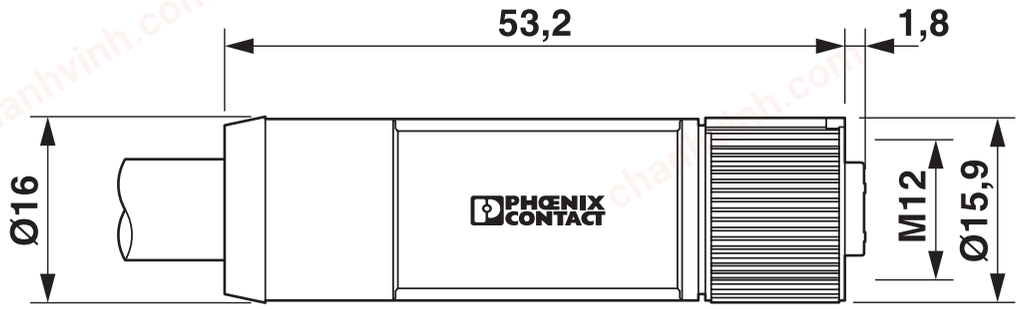
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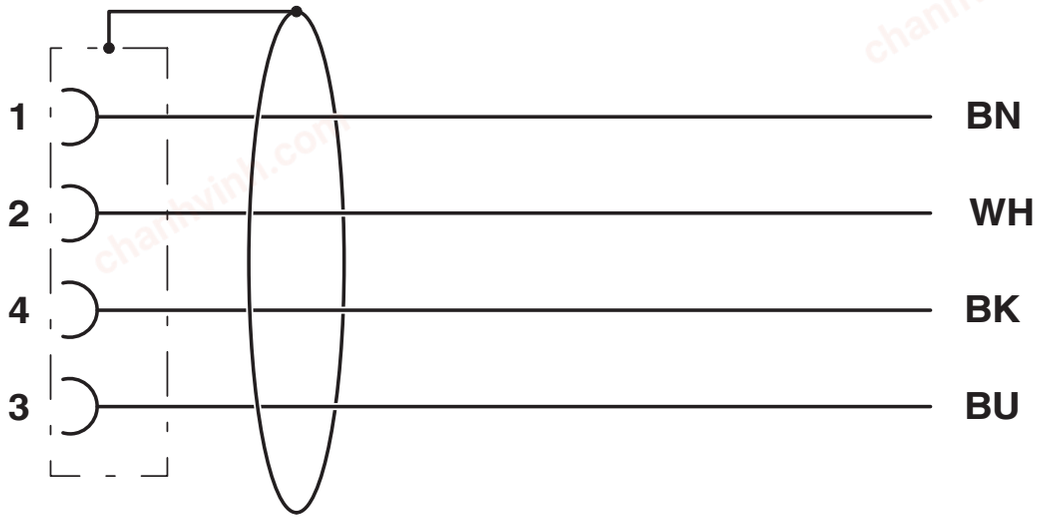
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Dimensional drawing



M12 x 1 socket, straight

Circuit diagram



Contact assignment of the M12 socket

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Approvals

DNV
Approval ID: TAE00002K4

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

cULus Listed

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Classifications

ECLASS

ECLASS-9.0	27060311
ECLASS-10.0.1	27060311
ECLASS-11.0	27060311

ETIM

ETIM 8.0	EC001855

UNSPSC

UNSPSC 21.0	26121600

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Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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Accessories

Tool

Tool - SAC BIT M12-D16 - 1200305

https://www.phoenixcontact.com/gb/products/1200305



Nut for assembling sensor/actuator cables with M12 connector and M12 connectors for assembly, knurl diameter: 16 mm, for 4 mm hexagonal drive

Sealing cap

Sealing cap - PROT-M12 FS - 1560251

https://www.phoenixcontact.com/gb/products/1560251



M12 sealing cap for unoccupied M12 plugs of the sensor/actuator cable, flush-type plugs and I/O devices in the field

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