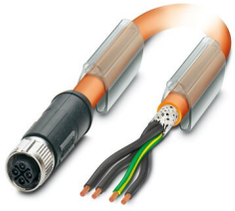
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Power cable - SAC-4P- 5,0-PUR/M12FSS PE SH

1424098

https://www.phoenixcontact.com/gb/products/1424098

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Power cable, 4-position, PUR halogen-free, orange RAL 2003, shielded (Advanced Shielding Technology), free cable end, on Socket straight M12, coding: S, cable length: 5 m, for AC current up to 12 A/690 V

Your advantages

- Easy and safe: 100% electrically tested plug-in components
- Protection against incorrect connection using special S-coding
- Our standard: robust halogen-free PUR cable
- Shield power reliably – 360° shielding to reduce electromagnetic loads

Commercial Data

Item number	1424098
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	BF1CCP
Product Key	BF1CCP
Catalog Page	Page 289 (C-2-2019)
GTIN	4046356693035
Weight per Piece (including packing)	751.8 g
Weight per Piece (excluding packing)	22.22 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	S power

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Ambient conditions

Degree of protection	IP65
	IP67 (without preloading, as additional test in accordance with IEC 60529)
Ambient temperature (operation)	-25 °C ... 85 °C (Plug / socket)

Electrical properties

Contact resistance	≤ 5 mΩ
Insulation resistance	≥ 100 MΩ
Nominal voltage U_N	690 V AC
Nominal current I_N	12 A
Protective circuit	unwired

Connector

Insertion/withdrawal cycles	> 100

Header 1

Head design	free cable end

Head 2

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

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	5 m
UL AWM Style	20234 / 10492 (80°C/1000 V)
Number of positions	4
Shielded	yes
Cable type	PUR halogen-free orange shielded [PUR]
Conductor cross section	4x 1.5 mm²
Wire diameter incl. insulation	≤ 2.5 mm
External cable diameter	9.7 mm ±0.3 mm
Outer sheath, material	PUR
External sheath, color	orange RAL 2003
Conductor material	Bare Cu litz wires
Material wire insulation	PP
Single wire, color	Black 1, black 2, black 3, green/yellow
Thickness, insulation	0.4 mm
Thickness, outer sheath	1.2 mm
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	1000 V AC
Test voltage	4260 V AC (5 min.)
Minimum bending radius, fixed installation	5 x D
Minimum bending radius, flexible installation	7.5 x D
Max. bending cycles	4000000
Torsion force	± 25 °/m
Halogen-free	according to VDE 0282-13 Appendix C
Flame resistance	according to EN 60332-1-2
	in acc. to UL 1581 VW1
	According to CSA C 22.2 No. 210-05 FT1
Resistance to oil	in accordance with DIN EN 60811-2-1
	According to DIN EN 50363-10-2
Other resistance	UV resistant
	Low adhesion
Ambient temperature (operation)	-40 °C ... 90 °C (cable, fixed installation)
	-30 °C ... 90 °C (Cable, flexible installation)

Cable structure

Outer sheath, material	PUR
External sheath, color	Orange (RAL 2003), matt

Standards and regulations

Standards/specifications	IEC 61076-2-111

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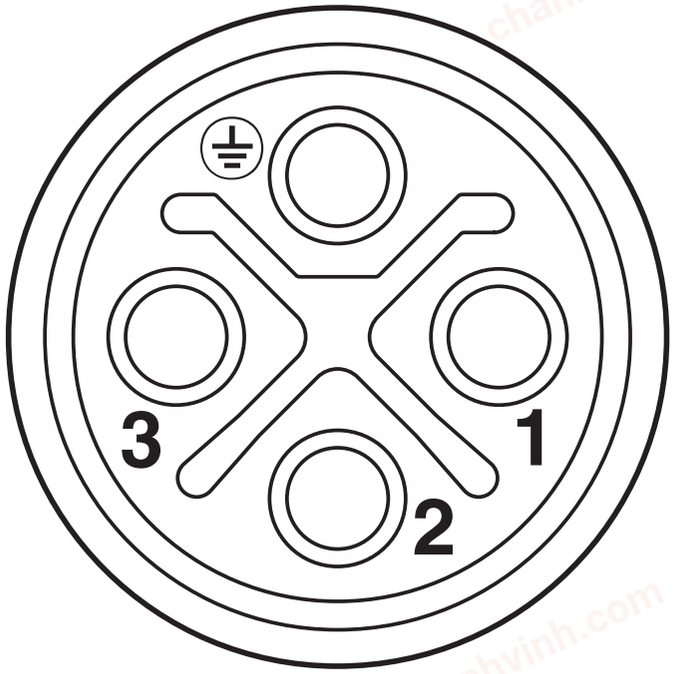
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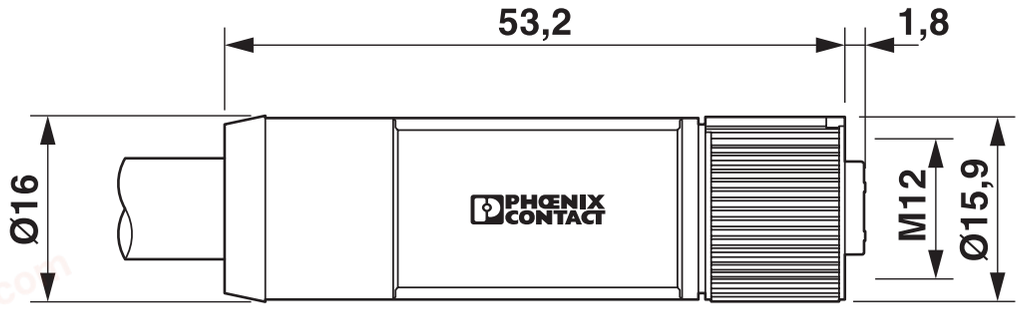
Drawings

Schematic diagram



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

Dimensional drawing



M12 x 1 socket, straight

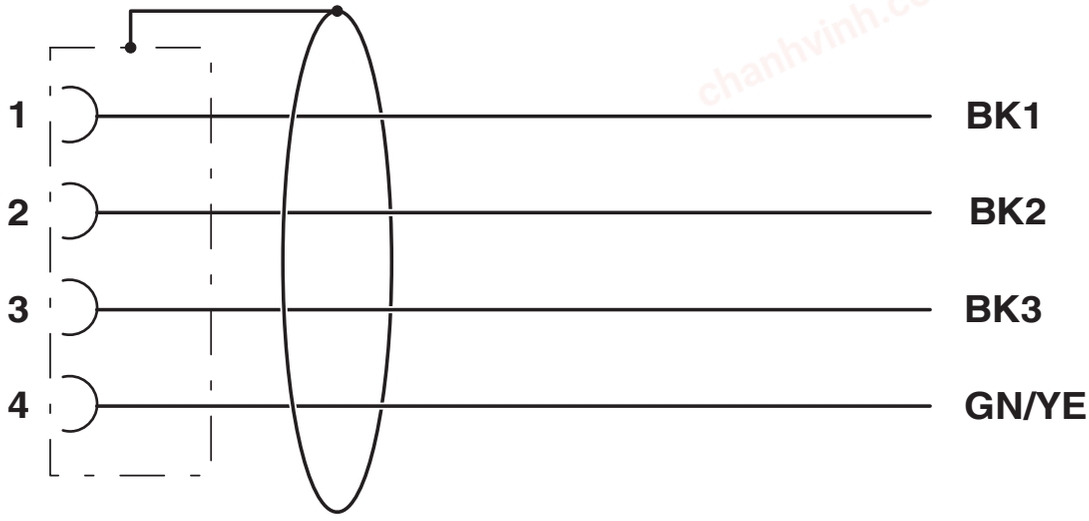
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Circuit diagram



Contact assignment of the M12 socket

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Approvals

EAC
Approval ID: RU C-DE.BL08.B.00286

UL Listed
Approval ID: FILE E 468743

	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
	600 V	12 A	-	- 16

cUL Listed
Approval ID: FILE E 468743

	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
	600 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

REACh SVHC	Lead 7439-92-1

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

Screw plug

Screw plug - PROT M12 MS PWR - 1092802

https://www.phoenixcontact.com/gb/products/1092802



An M12 screw plug for the unoccupied M12 females of the M12 POWER connectors, boxes, and flush-type connectors

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