

Power cable - SAC-3P- 1,0-PUR/M12FSS PE



1176479

<https://www.phoenixcontact.com/in/products/1176479>

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Power cable, 3-position, PUR halogen-free, black, free cable end, on Socket straight M12, coding: S, cable length: 1 m, for AC current up to 16 A/230 V

Your advantages

- Easy and safe: 100% electrically tested plug-in components
- Protection against incorrect connection using special S-coding

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Commercial Data

Item number	1176479
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to Order (non-returnable)
Product Key	BF1CCP
GTIN	4063151207656
Weight per Piece (including packing)	96.1 g
Weight per Piece (excluding packing)	96.1 g
Customs tariff number	85444290
Country of origin	PL

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Technical Data

Product properties

Product type	Power cable
Number of positions	3
Application	Power supply
No. of cable outlets	1
Shielded	no
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	230 V AC 230 V DC
Nominal current I_N	16 A
Protective circuit	unwired

Connector

Insertion/withdrawal cycles	> 100
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Header 1

Head design	free cable end
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Header 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

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Contact surface material	Ni/Au
Contact carrier material	PA
Cable gland material	Zinc die-cast, nickel-plated

Cable / line

Cable length	1 m
Cable weight	74 kg/km
UL AWM Style	20233 / 10493 (80°C/300 V)
Number of positions	3
Shielded	no
Cable type	PUR black [PUR]
Conductor cross section	3x 1.5 mm ²
Wire diameter incl. insulation	2.25 mm ±0.05 mm
External cable diameter	6.8 mm ±0.2 mm
Outer sheath, material	PUR
External sheath, color	black
Conductor material	Bare Cu litz wires
Material wire insulation	PP
Single wire, color	black 1, black 2, green/yellow
Overall twist	3 wires, twisted
Max. conductor resistance	≤ 14.1 Ω/m (at 20 °C)
Insulation resistance	≥ 1 GΩ*km (at 20 °C)
Nominal voltage, cable	300 V AC
Test voltage	3000 V
Minimum bending radius, fixed installation	5 x D
Minimum bending radius, flexible installation	10 x D
Max. bending cycles	4000000
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) 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 100 °C
Other resistance	Hydrolysis and microbe resistant as per VDE 0282 section 10 Low adhesion abrasion-resistant Resistant to salt water
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation) -25 °C ... 80 °C (Cable, flexible installation)

Standards and regulations

Standards/specifications	IEC 61076-2-111
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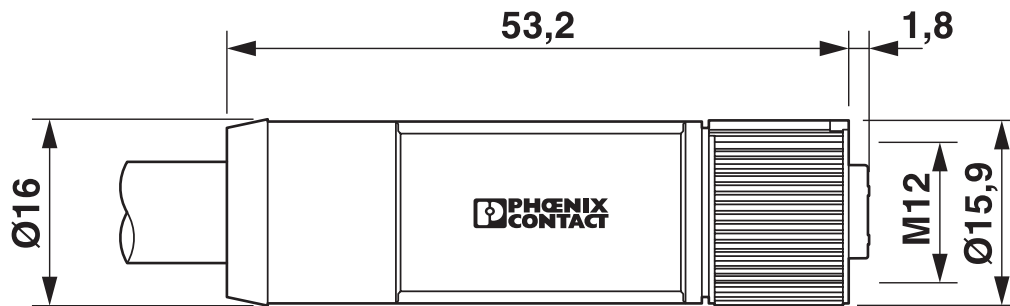


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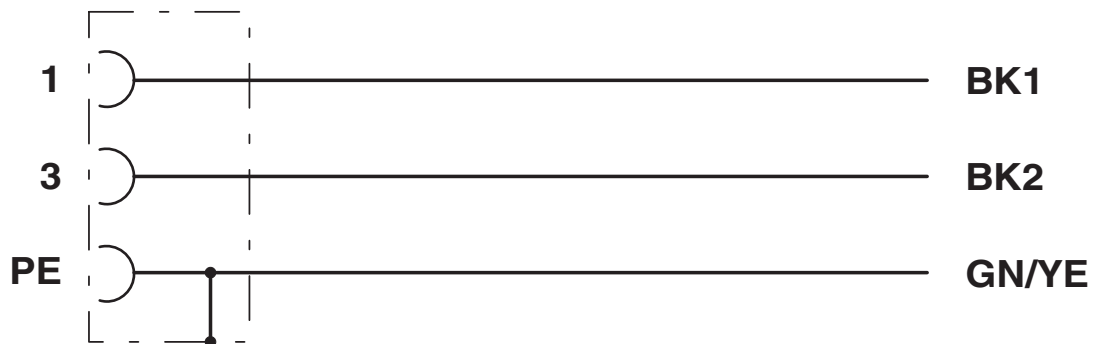
Drawings

Dimensional drawing



M12 x 1 socket, straight

Circuit diagram



Contact assignment of the M12 socket

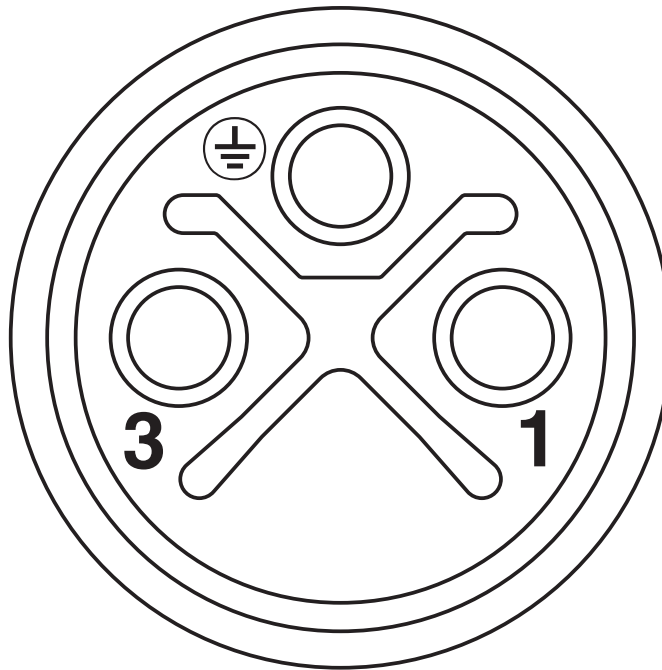
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Schematic diagram



Pin assignment of M12 socket, 3-pos., S-coded, socket side view

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Approvals

 UL Listed Approval ID: FILE E 468743				
	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
	300 V	12 A	-	- 16

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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
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UNSPSC

UNSPSC 21.0	
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Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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Accessories

Sealing cap

Sealing cap - PROT-M12 FS - 1560251

<https://www.phoenixcontact.com/in/products/1560251>



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

Tool

Tool - SAC BIT M12-D16 - 1200305

<https://www.phoenixcontact.com/in/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

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