#### 1425405

https://www.phoenixcontact.com/us/products/1425405

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Power cable, 4-position halogen-free, Plug straight M12, coding: S, on free cable end, cable length: 3.3 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

### Commercial data

Item number	1425405
Packing unit	1 pc
Minimum order quantity	50 рс
Note	Made to order (non-returnable)
Sales key	BF05
Product key	BF1CCP
GTIN	4055626399430
Weight per piece (including packing)	384.4 g
Weight per piece (excluding packing)	380 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	no	
Coding	S	
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		
Contact resistance	≤ 5 mΩ	
Insulation resistance	≥ 100 MΩ	
Nominal voltage U <sub>N</sub>	690 V AC	
Nominal current I <sub>N</sub>	12 A	

### Mechanical properties

Protective circuit

Mechanical data	
Insertion/withdrawal cycles	> 100

unwired

#### Connector

	Connection 1		
	Туре	Plug straight M12	
	Coding type	S (Power)	
	Connection 2		
	Туре	free cable end	
Cable/line			
	Cable length	3.3 m	

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#### PUR halogen-free black [PUR]

Dimensional drawing



Cable weight	114 kg/km
UL AWM Style	20234 / 10492 (80°C/1000 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	2.45 mm ±0.05 mm
External cable diameter	8.8 mm ±0.25 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	black 1, black 2, black 3, green/yellow
Thickness, insulation	≥ 0.36 mm
Thickness, outer sheath	approx. 1.3 mm
Overall twist	4 wires, twisted
Length of twist, overall twist	93 mm
Max. conductor resistance	≤ 13 Ω/km (at 20 °C)
Insulation resistance	≥ 1 GΩ*km (at 20 °C)
Nominal voltage, cable	≤ 1000 V AC
Test voltage	≥ 10000 V AC (Spark test)
Minimum bending radius, fixed installation	5 x D
Minimum bending radius, flexible installation	10 x D
Max. bending cycles	2000000
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 60811-2-1, 168 h at 100°C
	According to UL 758, 168 h at 60°C
Other resistance	Hydrolysis and microbe resistant as per VDE 0282 section 10
	Low adhesion
	abrasion-resistant

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	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 (without preloading, as additional test in accordance with IEC 60529)	
Ambient temperature (operation)	-25 °C 85 °C (Plug / socket)	
Standards and regulations		
Standard designation	M12 connector	
Standards/specifications	IEC 61076-2-111	

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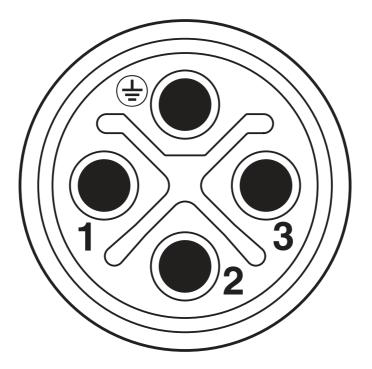


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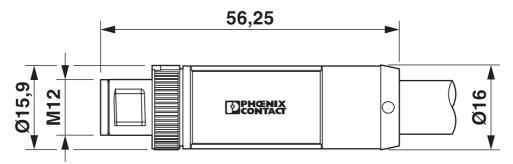
# Drawings

Schematic diagram



M12 plug pin assignment, 4-pos., S-coded, plug side view

Dimensional drawing

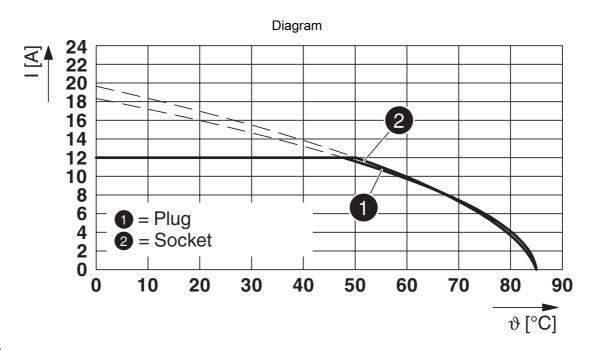


Plug, M12 x 1, straight



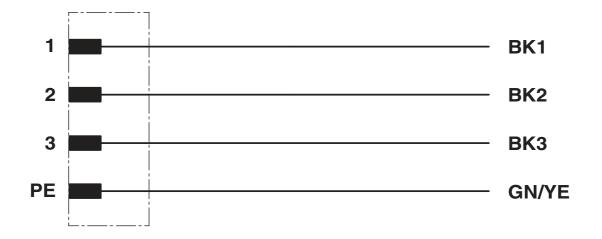
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Base curve

Circuit diagram





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## Approvals

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<b>UL Listed</b> Approval ID: FILE E 468743				
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
	600 V	12 A	-	- 16

<b>B</b>	<b>CUL Listed</b> Approval ID: FILE E 46874	43			
		Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
		600 V	12 A	- 16	-

cULus Listed

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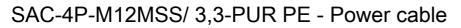
# Classifications

#### ECLASS

ECLASS-11.0	27060311
ECLASS-12.0	27060311
ECLASS-13.0	27060311

#### ETIM

	ETIM 8.0	EC001855
UN	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

PROT-M12 FS - Sealing cap

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



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

#### SAC BIT M12-D16 - Tool

1200305 https://www.phoenixcontact.com/us/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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Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com