

# Power cable - SAC-4P-M12MSL/ 1,5-105



1425025

<https://www.phoenixcontact.com/in/products/1425025>

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Power cable, 4-position, PUR halogen-free, black-gray RAL 7021, Plug straight M12, coding: L, on free cable end, cable length: 1.5 m, For direct current up to 12 A/63 V

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## Your advantages

- Easy and safe: 100% electrically tested plug-in components
- Protection against mismatching, thanks to special L-coding
- Our standard: robust halogen-free PUR cable

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## Commercial Data

Item number	1425025
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	BF1
Product Key	BF1CCR
Catalog Page	Page 296 (C-2-2019)
GTIN	4055626383620
Weight per Piece (including packing)	177 g
Weight per Piece (excluding packing)	177 g
Customs tariff number	85444290
Country of origin	PL

## Technical Data

### Product properties

Product type	Power cable
Number of positions	4
Application	Power supply
No. of cable outlets	1
Shielded	no
Coding	L - 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)

### 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
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#### Header 1

Head design	Plug
Head cable outlet	straight
Head thread type	M12
Coding	L

#### Head 2

Head design	free cable end
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### 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
Contact carrier material	PA

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Cable gland material	Zinc die-cast, nickel-plated
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## Cable / line

Cable length	1.5 m
Cable weight	109 kg/km
UL AWM Style	20233 / 10493 (80°C/300 V)
Number of positions	4
Shielded	no
Cable type	PUR halogen-free black [PUR]
Conductor cross section	4x 1.5 mm <sup>2</sup>
Wire diameter incl. insulation	2.35 mm ±0.05 mm
External cable diameter	8.4 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	brown, white, blue, black
Thickness, insulation	≥ 0.25 mm
Thickness, outer sheath	approx. 1.3 mm
Overall twist	4 wires, twisted
Length of twist, overall twist	90 mm
Max. conductor resistance	≤ 13 Ω/km (at 20 °C)
Insulation resistance	≥ 1 GΩ*km (at 20 °C)
Nominal voltage, cable	≤ 300 V AC
Test voltage	≥ 3000 V AC (Spark test)
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 60811-2-1, 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 Resistant to salt water
Ambient temperature (operation)	-50 °C ... 80 °C (cable, fixed installation) -30 °C ... 80 °C (Cable, flexible installation)

## Standards and regulations

Standards/specifications	IEC 61076-2-111
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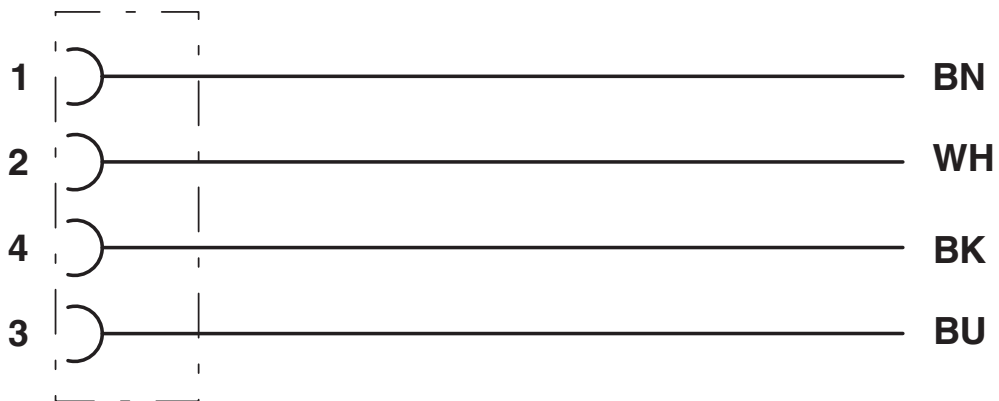
# Power cable - SAC-4P-M12MSL/ 1,5-105

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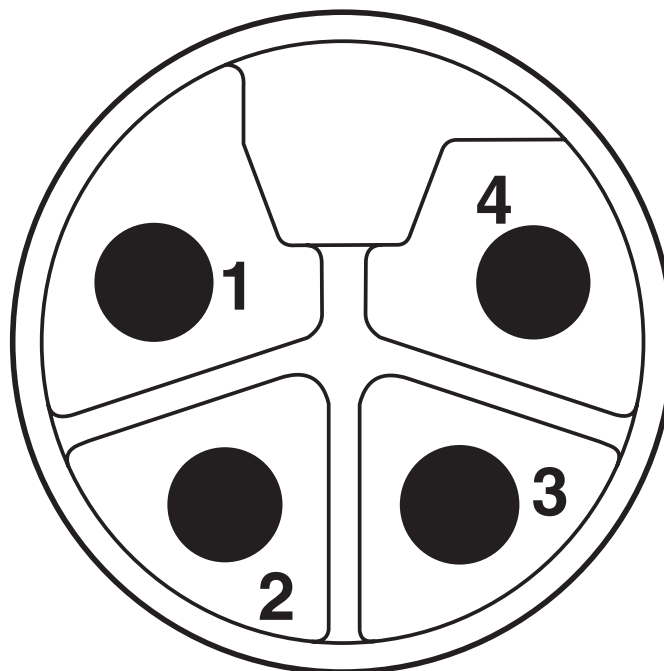
## Drawings

Circuit diagram



Contact assignment of the M12 plug

Schematic diagram



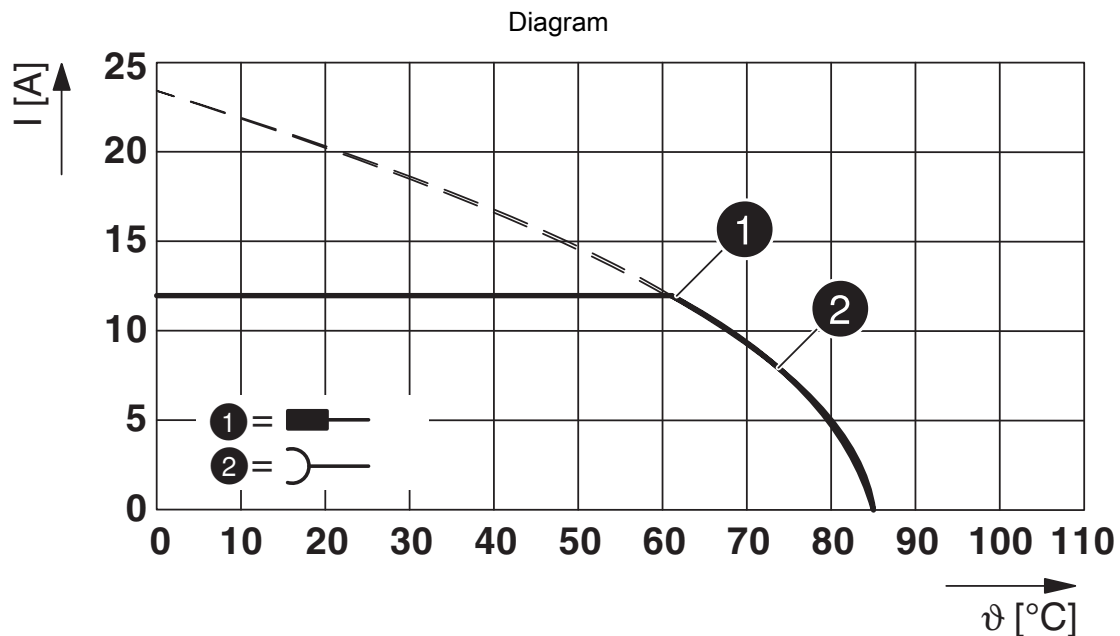
Pin assignment M12 male connector, 4-pos.

# Power cable - SAC-4P-M12MSL/ 1,5-105

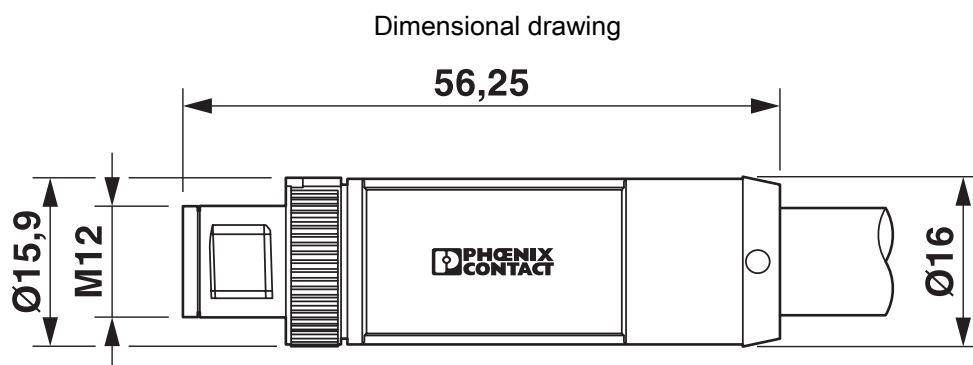


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Current carrying capacity



Plug, M12 x 1, straight, shielded

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## Approvals



**EAC**

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



**UL Listed**

Approval ID: E468743



**cUL Listed**

Approval ID: E468743



**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
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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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