

## Power cable - SAC-4P-M12MSL/0,6-PVC/FSL - 1425102

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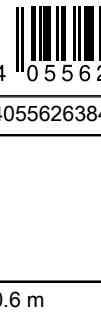


Power cable, 4-position, PVC, black-gray RAL 7021, Plug straight M12, L-coded, on Socket straight M12, L-coded, cable length: 0.6 m, for direct current up to 16 A/63 V

### Your advantages

- ✓ Easy and safe: 100% electrically tested plug-in components
- ✓ High-performance: DC connectors for up to 16 A and 63 V DC
- ✓ Protection against mismatching, thanks to special L-coding

### Key Commercial Data

Packing unit	1 pc
GTIN	 4 055626 384405
GTIN	4055626384405

### Technical data

#### Dimensions

Length of cable	0.6 m
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#### Ambient conditions

Ambient temperature (operation)	-25 °C ... 85 °C (Plug / socket)
Degree of protection	IP65/IP67

#### General

Rated current at 40°C	16 A
Rated voltage	63 V DC
Number of positions	4
Color handle area	black
Insulation resistance	≥ 100 MΩ
Coding	L - Power
Standards/regulations	M12 connector IEC 61076-2-111

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## Technical data

### General

Status display	No
Protective circuit/component	unwired
Overvoltage category	III
Degree of pollution	3
Insertion/withdrawal cycles	≥ 100
Torque	0.4 Nm (M12 connector)

### Material

Flammability rating according to UL 94	V0
Contact material	CuZn
Contact surface material	Ni/Au
Contact carrier material	PA
Material of grip body	PP
Material, knurls	Zinc die-cast, nickel-plated

### Standards and Regulations

Standard designation	M12 connector
Standards/regulations	IEC 61076-2-111
Flammability rating according to UL 94	V0

### Cable

Cable type	PVC
Cable type (abbreviation)	PVC
UL AWM style	20233 / 10493 (80°C/300 V)
Conductor cross section	4x 2.5 mm <sup>2</sup>
AWG power supply	14
Conductor structure, voltage supply	141x 0.15 mm
Core diameter including insulation	3 mm ±0.1 mm
Thickness, insulation	≥ 0.36 mm
Wire colors	brown, white, blue, black
External sheath, color	black-gray RAL 7021
Outer sheath thickness	approx. 0.76 mm
External cable diameter D	9.5 mm ±0,3 mm
Minimum bending radius, fixed installation	5 x D
Minimum bending radius, flexible installation	10 x D
Number of bending cycles	2000000
Minimum bending radius, drag chain applications	10 x D
Traversing path	10 m
Traversing rate	3 m/s
Acceleration	10 m/s <sup>2</sup>
Outer sheath, material	PVC
Material conductor insulation	PVC

## Power cable - SAC-4P-M12MSL/0,6-PVC/FSL - 1425102

### Technical data

#### Cable

Conductor material	Bare Cu litz wires
Insulation resistance	≥ 100 MΩ*km (at 20 °C)
Conductor resistance	≤ 8 Ω/km (at 20 °C)
Nominal voltage, cable	≤ 300 V AC
Test voltage, cable	≥ 3000 V AC (Spark test)
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 60 °C
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation)
	-20 °C ... 80 °C (cable, flexible installation)

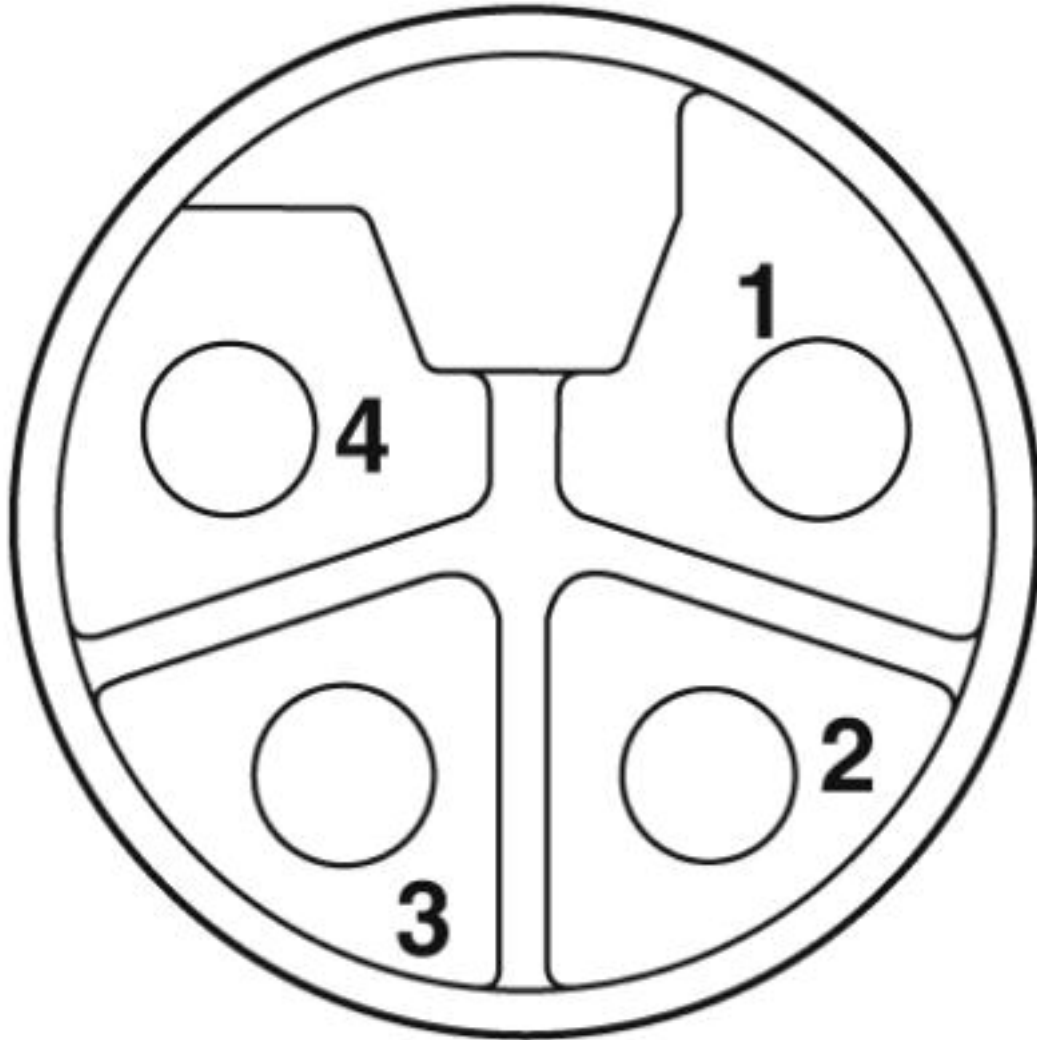
#### Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

### Drawings

## Power cable - SAC-4P-M12MSL/0,6-PVC/FSL - 1425102

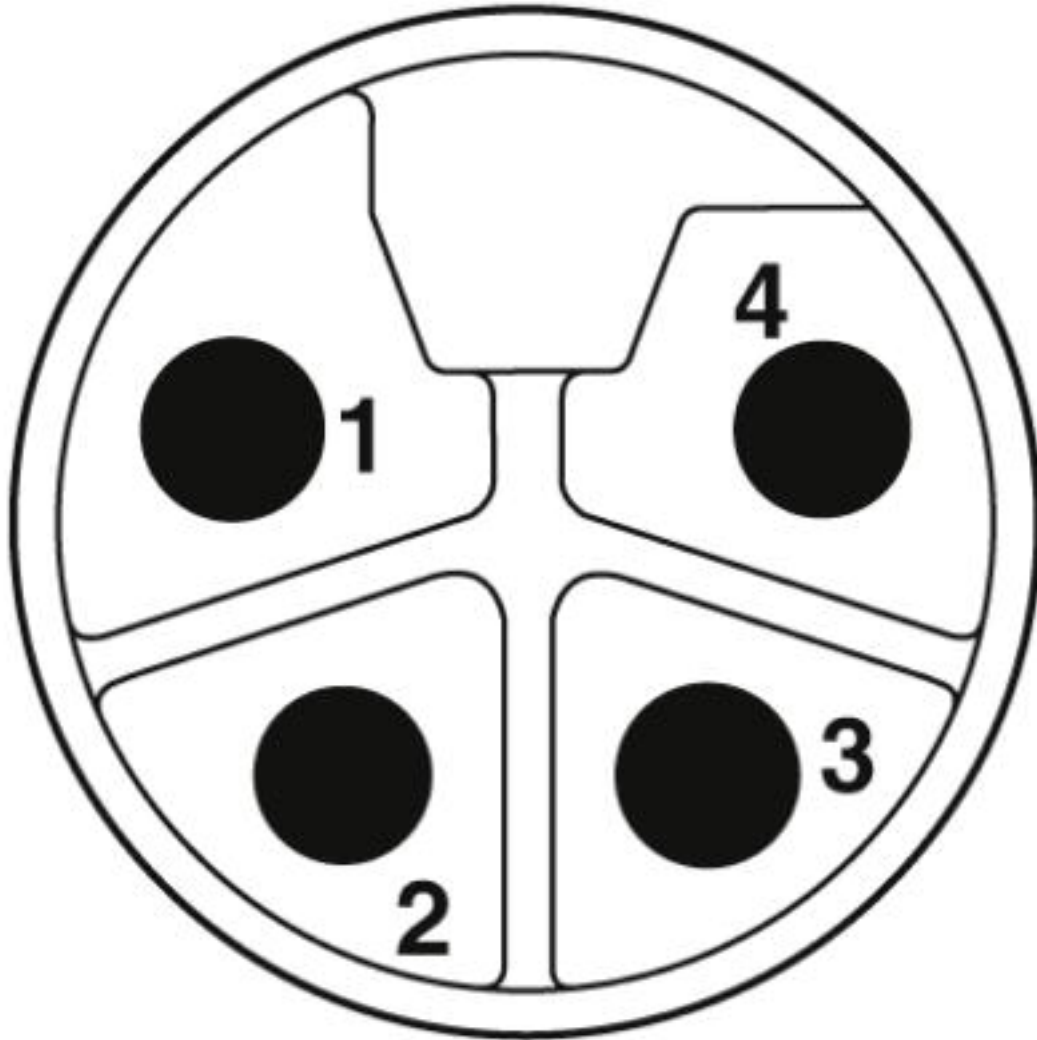
Schematic diagram



Pin assignment of M12 socket, 4-pos.

## Power cable - SAC-4P-M12MSL/0,6-PVC/FSL - 1425102

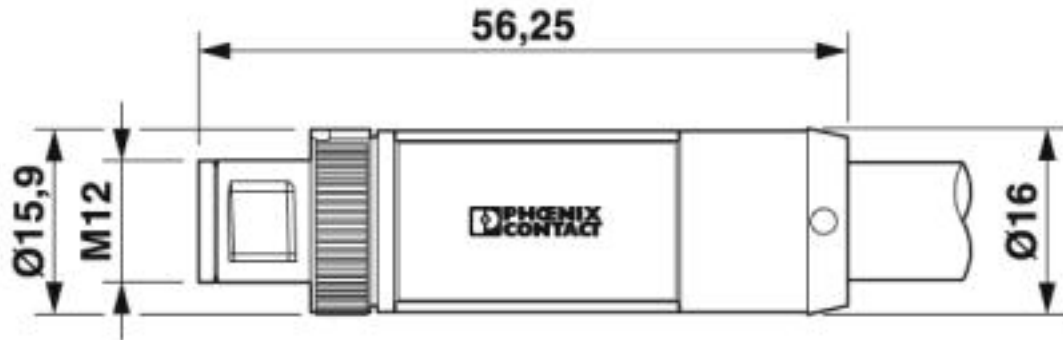
Schematic diagram



Pin assignment M12 male connector, 4-pos.

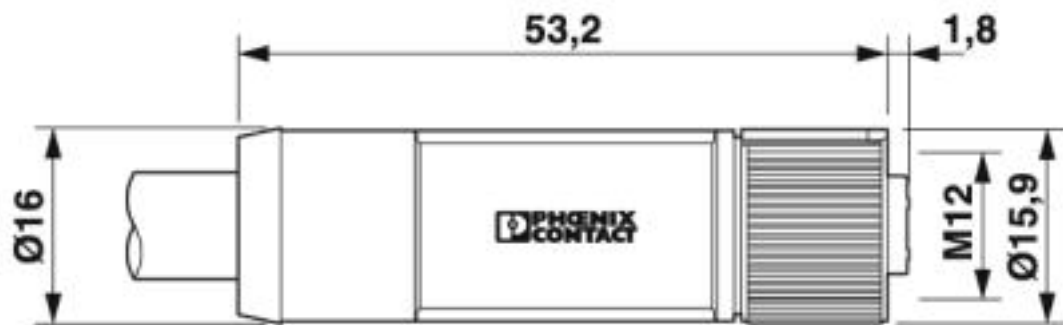
# Power cable - SAC-4P-M12MSL/0,6-PVC/FSL - 1425102

Dimensional drawing



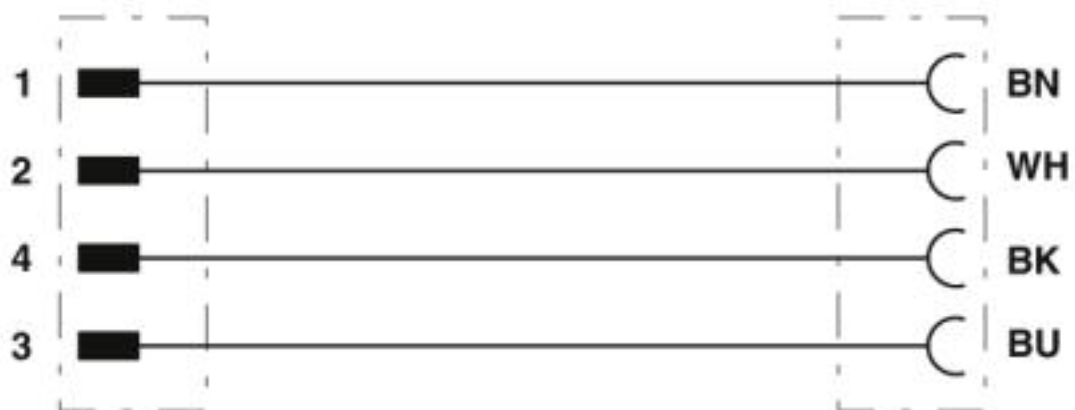
Plug, M12 x 1, straight, shielded

Dimensional drawing



M12 x 1 socket, straight

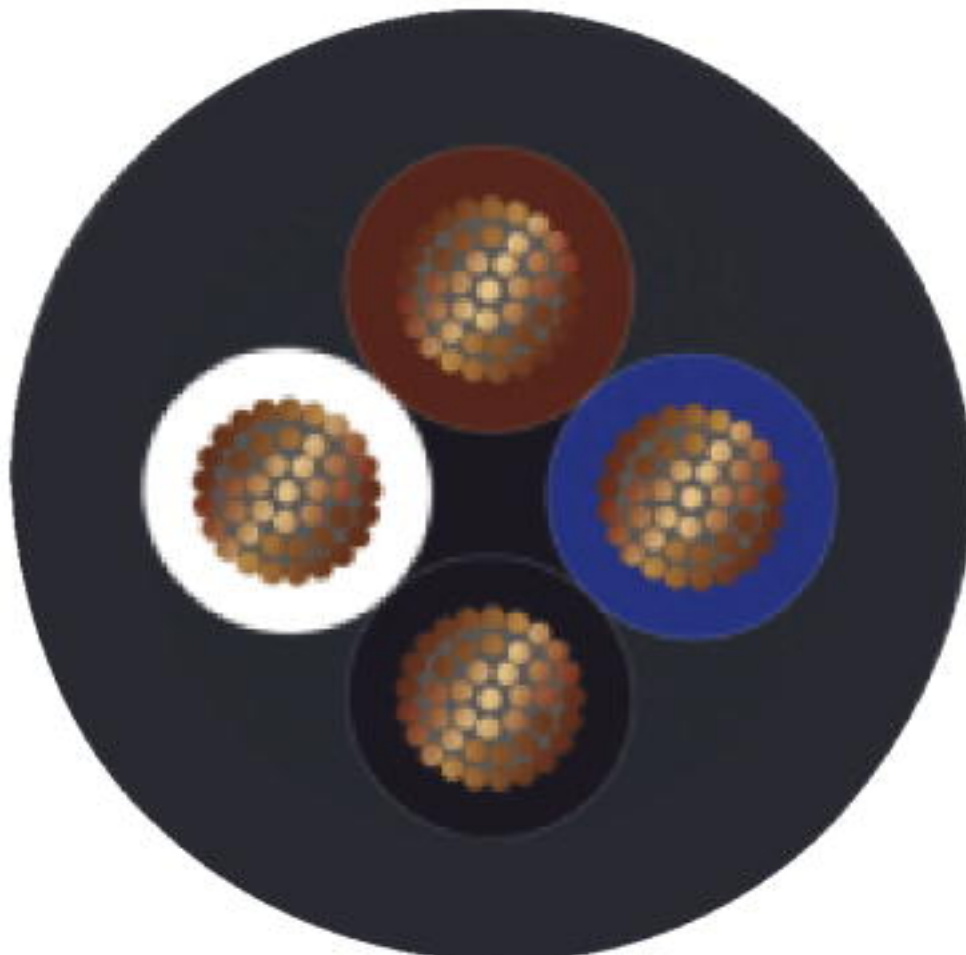
Circuit diagram



Contact assignment of M12 connector/socket

# Power cable - SAC-4P-M12MSL/0,6-PVC/FSL - 1425102

Cable cross section



PVC [PVC]

## Approvals

Approvals

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Approvals

UL Listed / cUL Listed / EAC / cULus Listed

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Ex Approvals

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Approval details

# Power cable - SAC-4P-M12MSL/0,6-PVC/FSL - 1425102

## Approvals

UL Listed		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	E468743
Nominal voltage UN	63 V		
Nominal current IN	16 A		
mm <sup>2</sup> /AWG/kcmil	14		

cUL Listed		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	E468743
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EAC		RU C- DE.BL08.B.00286
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cULus Listed	
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