

## Power cable - SAC-5P-M12MSL/0,6-500/FSL FE - 1425014

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Power cable, 5-position, PVC, gray RAL 7001, Plug straight M12, coding: L, on Socket straight M12, coding: L, 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 383514
GTIN	4055626383514

### 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	5
Color handle area	black
Insulation resistance	≥ 100 MΩ
Coding	L - Power

# Power cable - SAC-5P-M12MSL/0,6-500/FSL FE - 1425014

## Technical data

### General

Standards/regulations	M12 connector IEC 61076-2-111
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

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

### Cable

UL AWM style	20233 / 10493 (80°C/300 V)
Conductor cross section	5x 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, gray
External sheath, color	gray RAL 7001
Outer sheath thickness	approx. 0.76 mm
External cable diameter D	10.1 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>
Cable weight	205 kg/km
Outer sheath, material	PVC
Material conductor insulation	PVC
Conductor material	Bare Cu litz wires

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### Technical data

#### Cable

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)

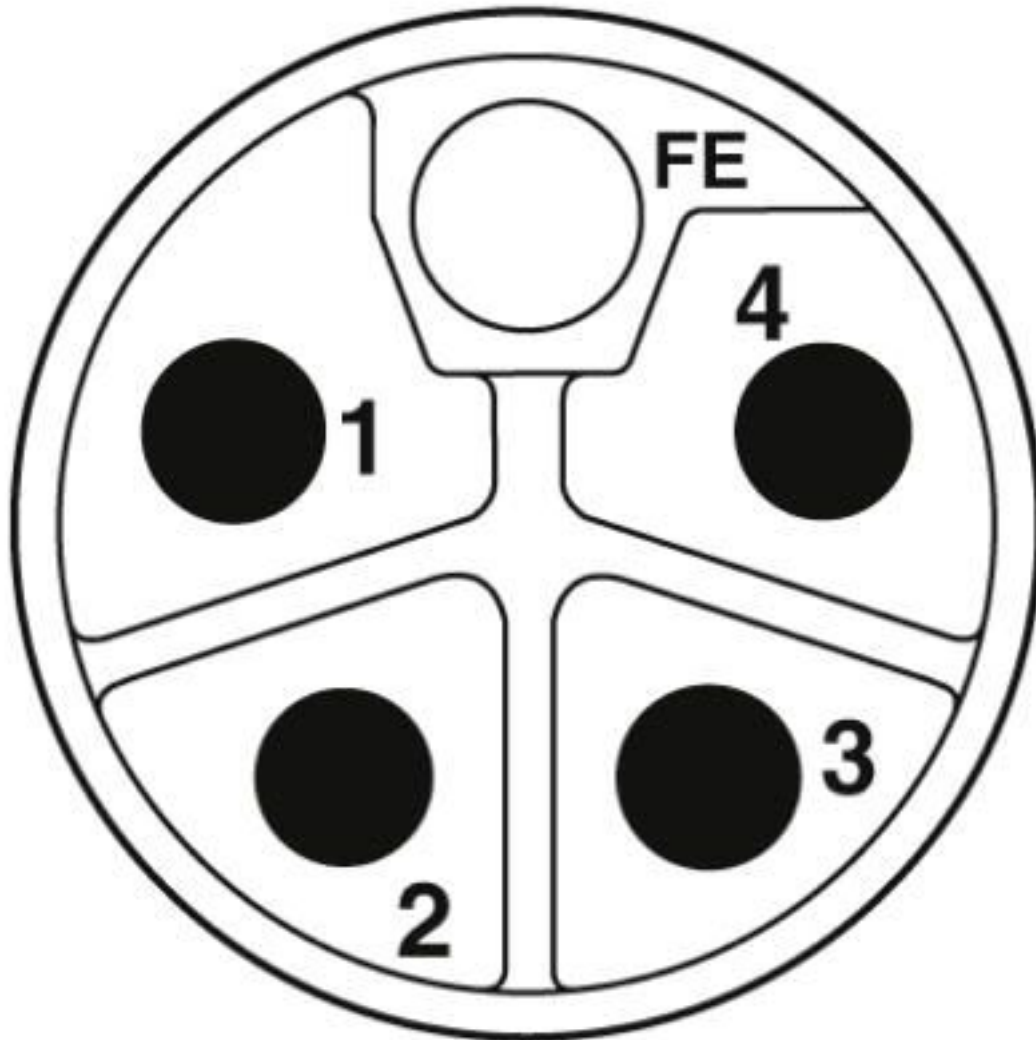
#### Environmental Product Compliance

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

#### Drawings

## Power cable - SAC-5P-M12MSL/0,6-500/FSL FE - 1425014

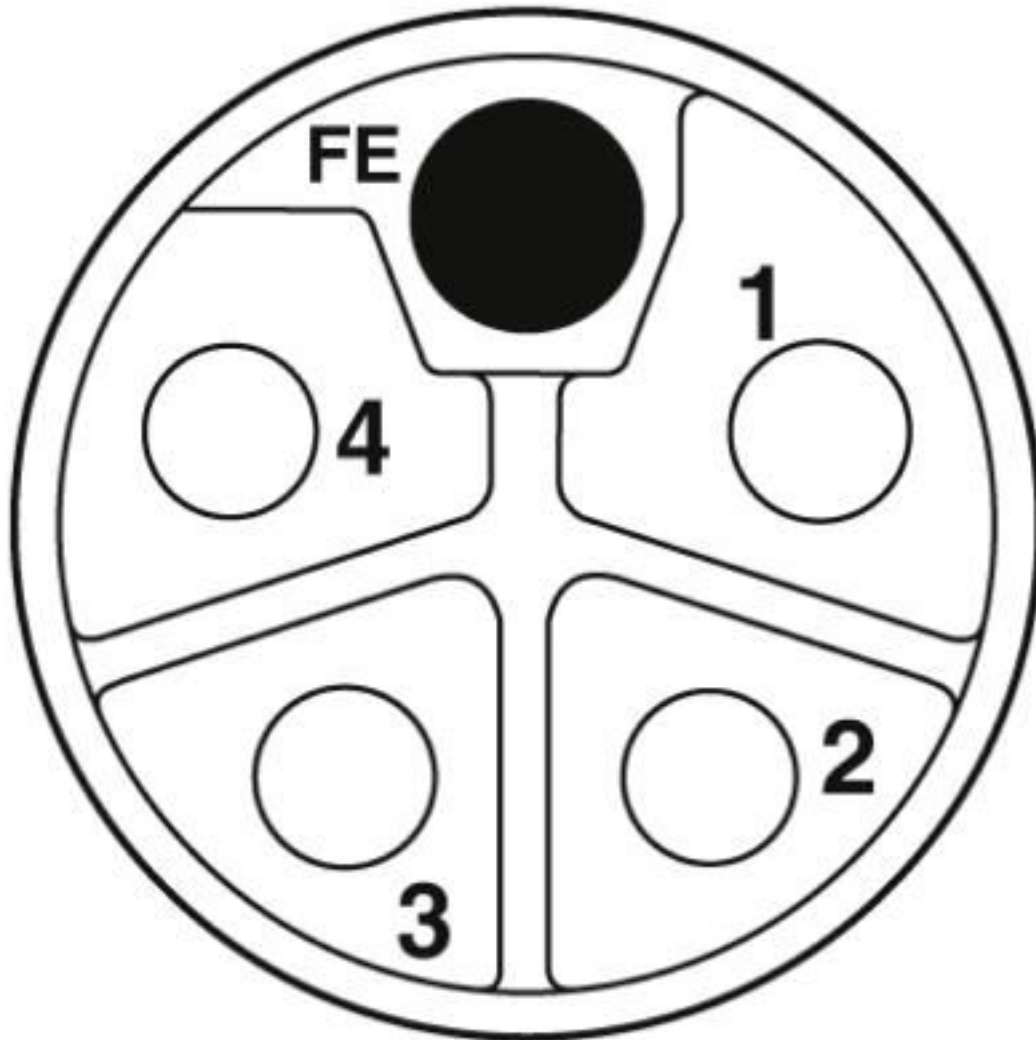
Schematic diagram



Pin assignment of M12 connector, 5-pos., L-coded, pin side view

## Power cable - SAC-5P-M12MSL/0,6-500/FSL FE - 1425014

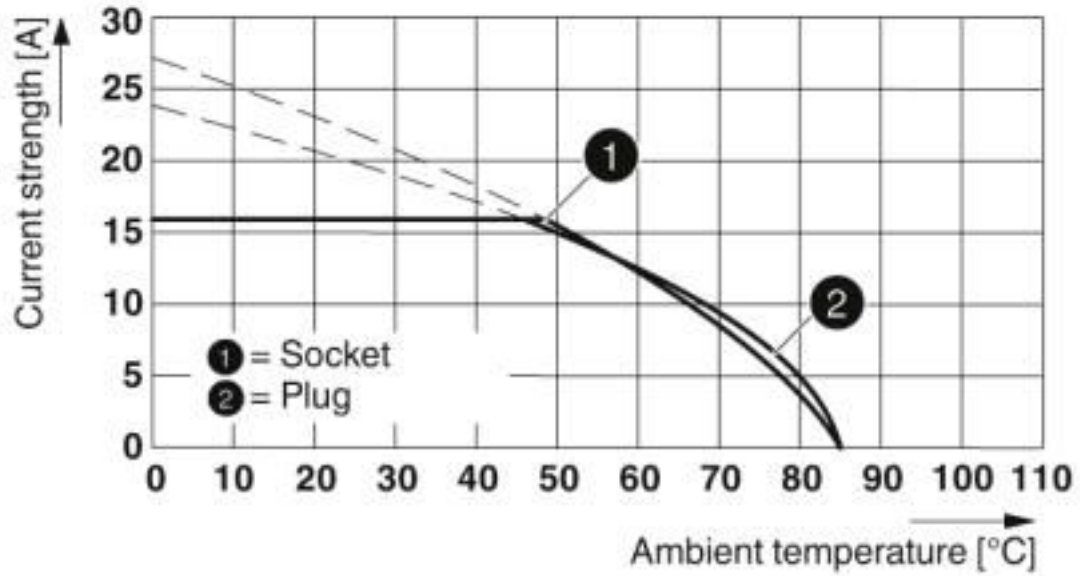
Schematic diagram



Pin assignment of M12 socket, 5-pos., L-coded, socket side view

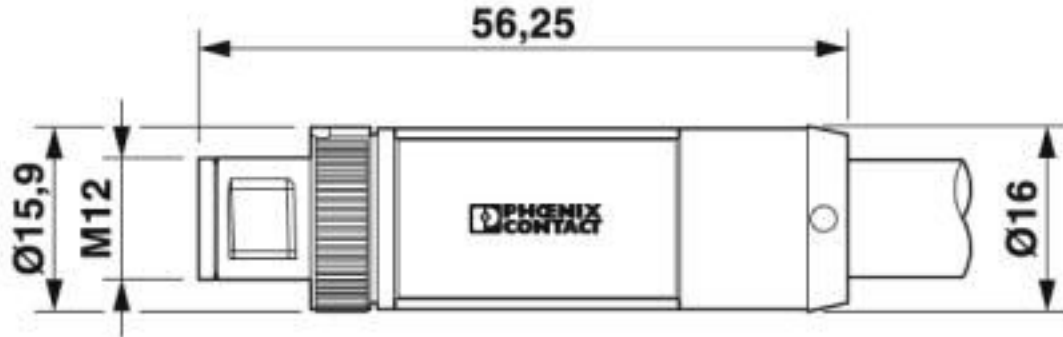
# Power cable - SAC-5P-M12MSL/0,6-500/FSL FE - 1425014

Diagram



Current carrying capacity

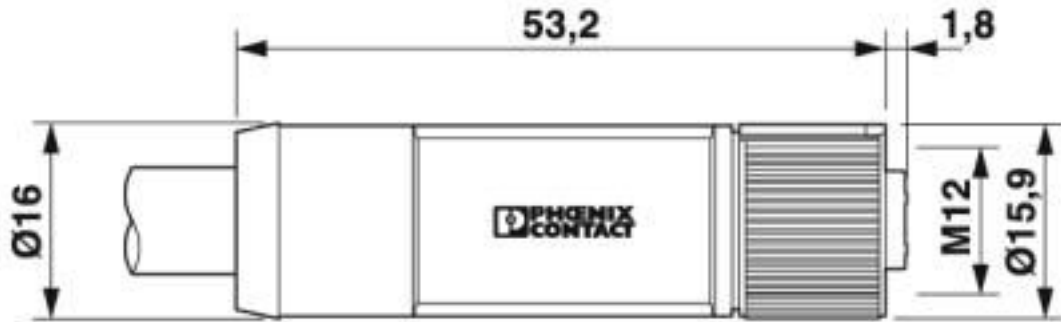
Dimensional drawing



Plug, M12 x 1, straight, shielded

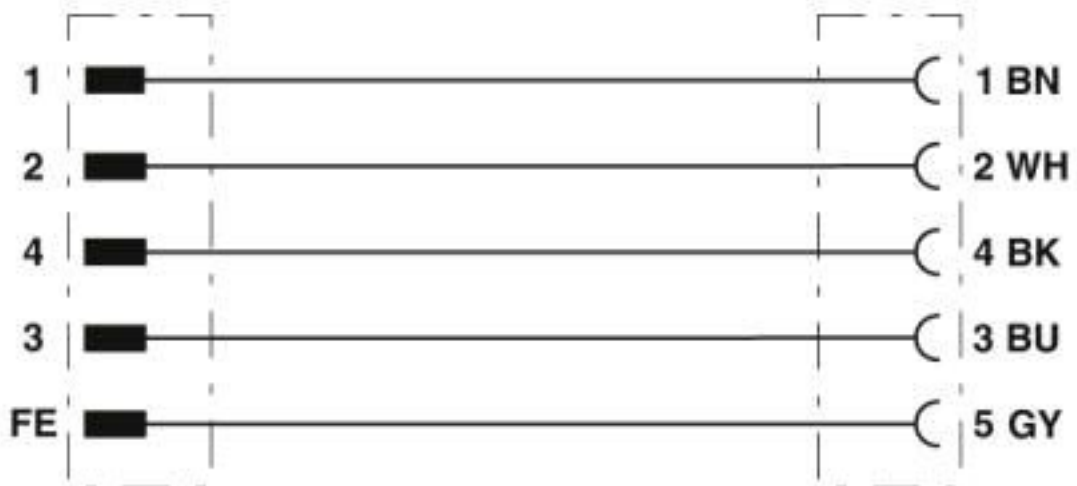
# Power cable - SAC-5P-M12MSL/0,6-500/FSL FE - 1425014

Dimensional drawing



M12 x 1 socket, straight

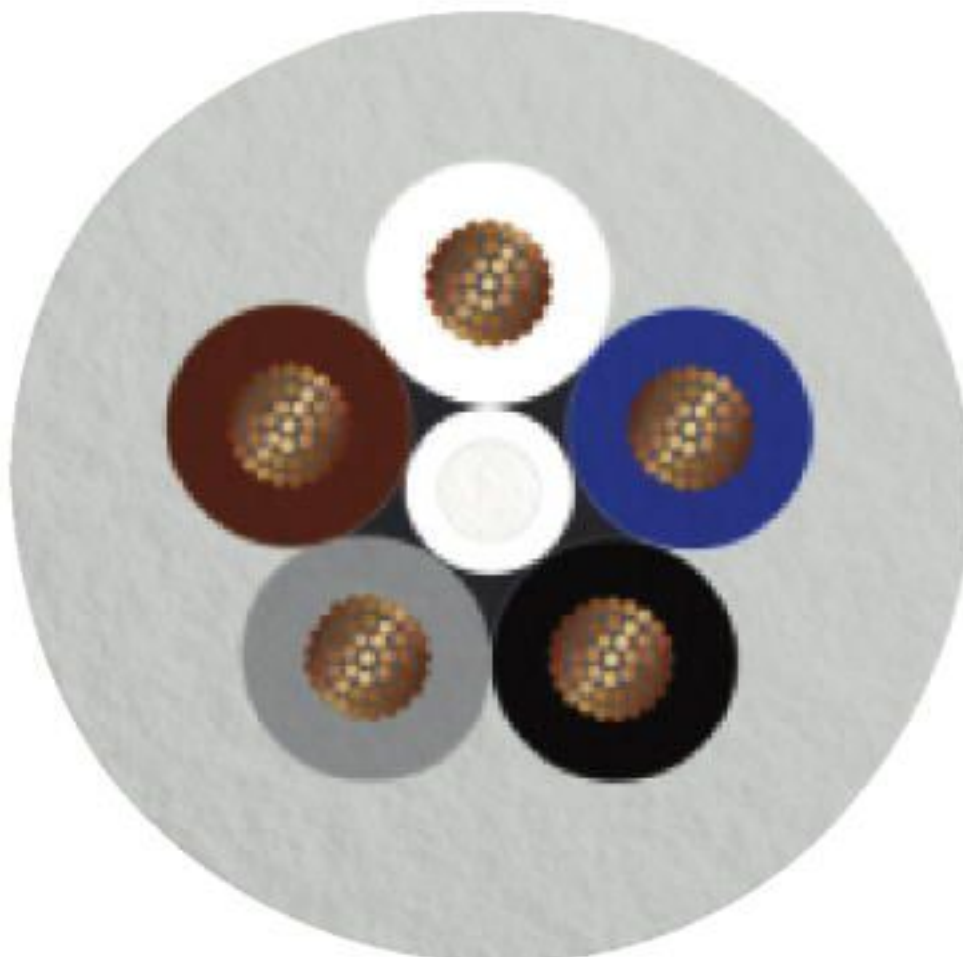
Circuit diagram



Contact assignment of M12 connector/socket

# Power cable - SAC-5P-M12MSL/0,6-500/FSL FE - 1425014

Cable cross section



PVC gray [500]

## Classifications

eCl@ss

eCl@ss 10.0.1	27060311
eCl@ss 5.1	27061801
eCl@ss 6.0	27279200
eCl@ss 7.0	27279218
eCl@ss 9.0	27060311

ETIM

ETIM 5.0	EC001855
ETIM 6.0	EC001855
ETIM 7.0	EC001855



# Power cable - SAC-5P-M12MSL/0,6-500/FSL FE - 1425014

## Approvals

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#### Approvals

UL Listed / cUL Listed / EAC-RoHS / EAC / cULus Listed

#### Ex Approvals

### Approval details

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
Nominal voltage UN		63 V	
Nominal current IN		16 A	
mm <sup>2</sup> /AWG/kcmil		14	

EAC-RoHS		RU D- DE.HB35.B.00387
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EAC		RU C- DE.BL08.B.00286
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cULus Listed		
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## Accessories

### Accessories

Protective cap

## Power cable - SAC-5P-M12MSL/0,6-500/FSL FE - 1425014

### Accessories

Sealing cap - PROT-M12 FS - 1560251



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

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### Screwdriver tools

Tool - SAC BIT M12-D16 - 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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Screw plug - PROT M12 MS PWR - 1092802



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

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