

Power cable - SAC-5P-M12MSL/3,0-500/FSL FE - 1425016

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)




Power cable, 5-position, PVC, gray RAL 7001, Plug straight M12, coding: L, on Socket straight M12, coding: L, cable length: 3 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 383538
GTIN	4055626383538

Technical data

Dimensions

Length of cable	3 m
-----------------	-----

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/3,0-500/FSL FE - 1425016

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 ²
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 ²
Cable weight	205 kg/km
Outer sheath, material	PVC
Material conductor insulation	PVC
Conductor material	Bare Cu litz wires

Power cable - SAC-5P-M12MSL/3,0-500/FSL FE - 1425016

Technical data

Cable

Insulation resistance	$\geq 100 \text{ M}\Omega \cdot \text{km}$ (at 20 °C)
Conductor resistance	$\leq 8 \text{ }\Omega/\text{km}$ (at 20 °C)
Nominal voltage, cable	$\leq 300 \text{ V AC}$
Test voltage, cable	$\geq 3000 \text{ V AC}$ (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)

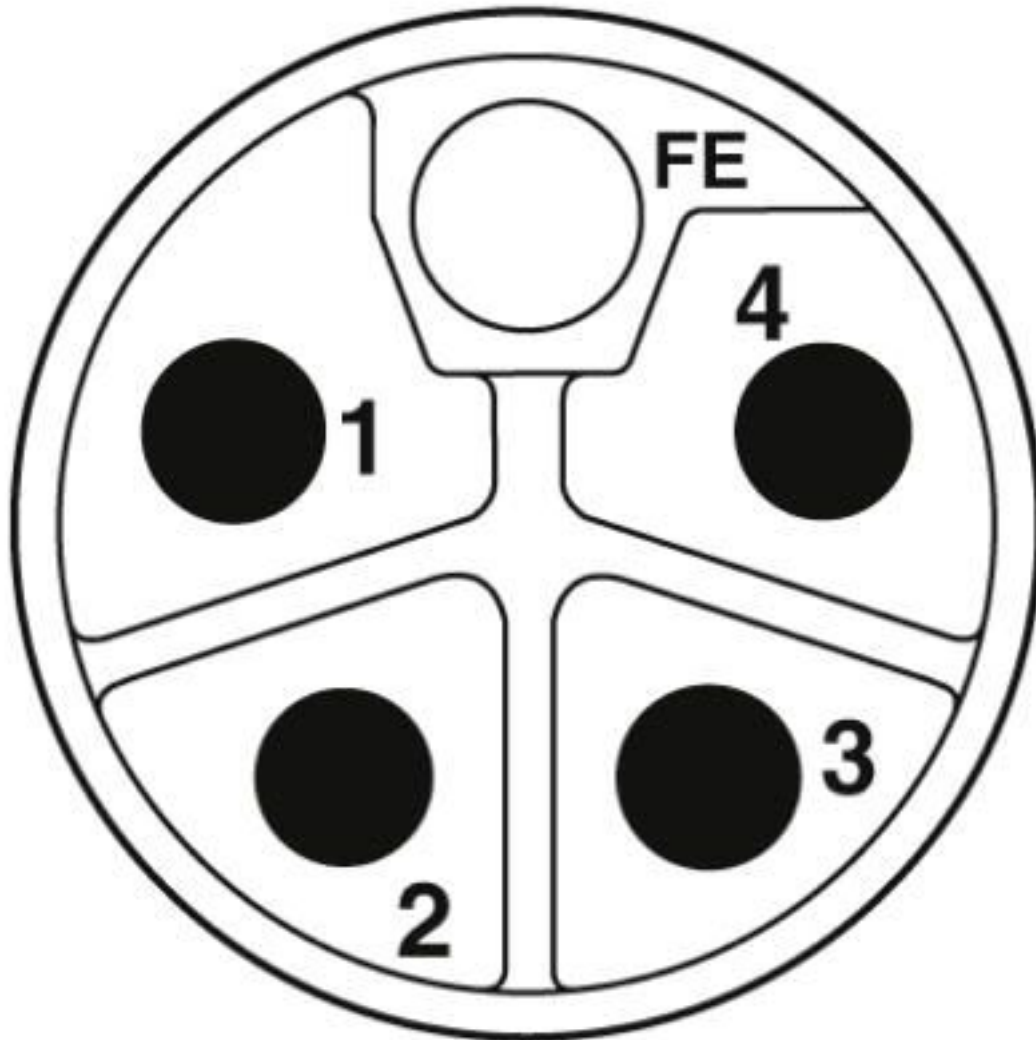
Environmental Product Compliance

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/3,0-500/FSL FE - 1425016

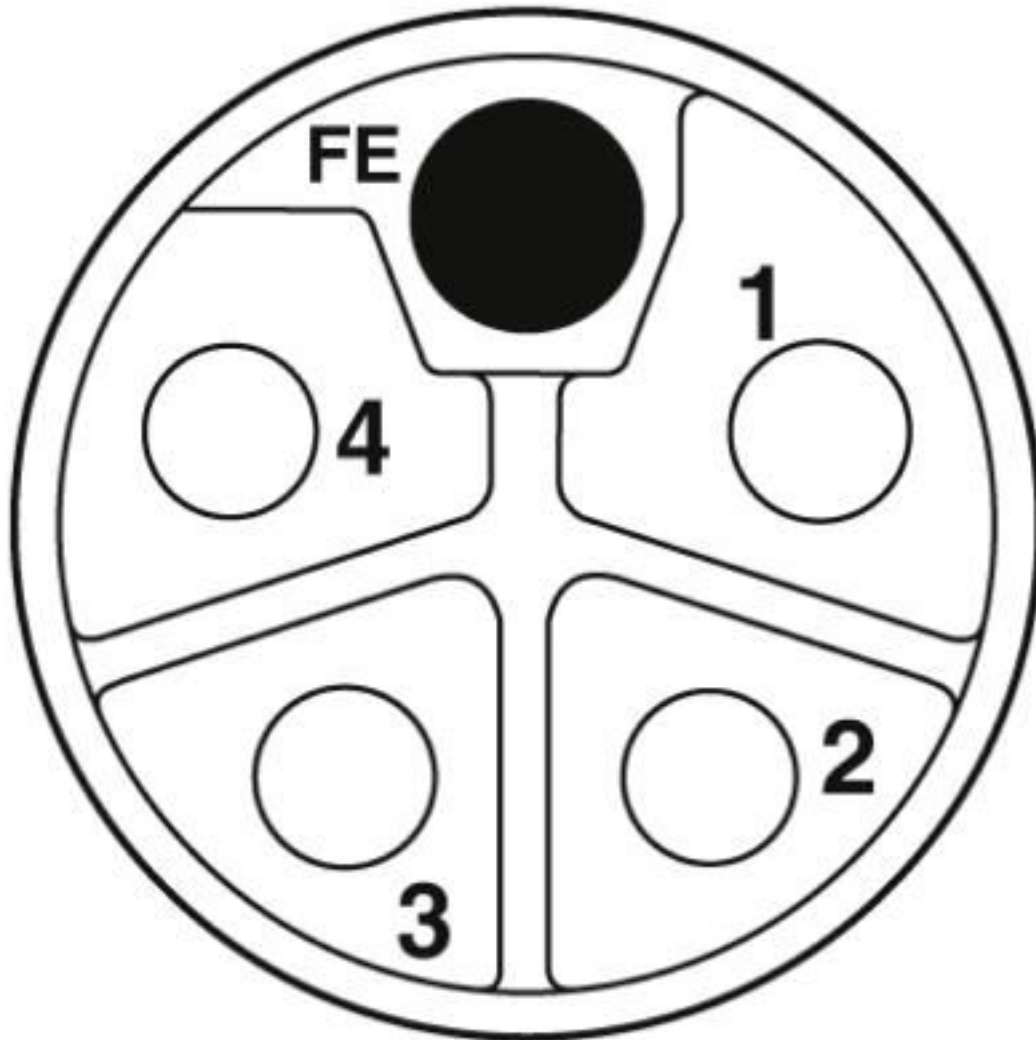
Schematic diagram



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

Power cable - SAC-5P-M12MSL/3,0-500/FSL FE - 1425016

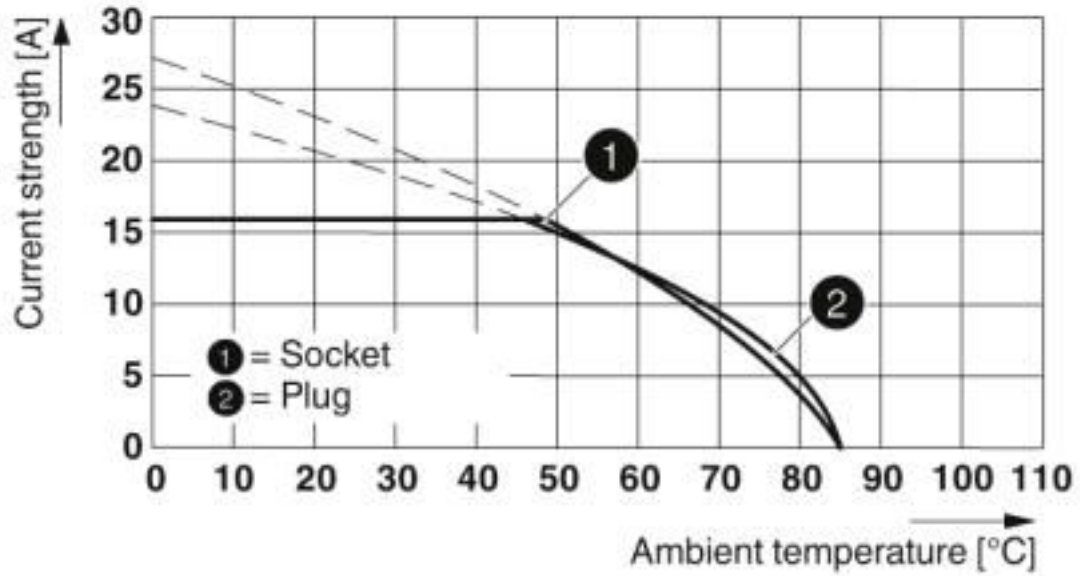
Schematic diagram



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

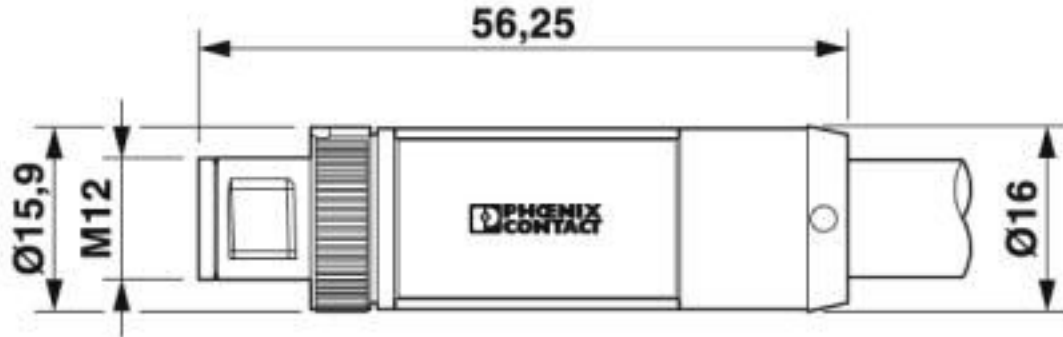
Power cable - SAC-5P-M12MSL/3,0-500/FSL FE - 1425016

Diagram



Current carrying capacity

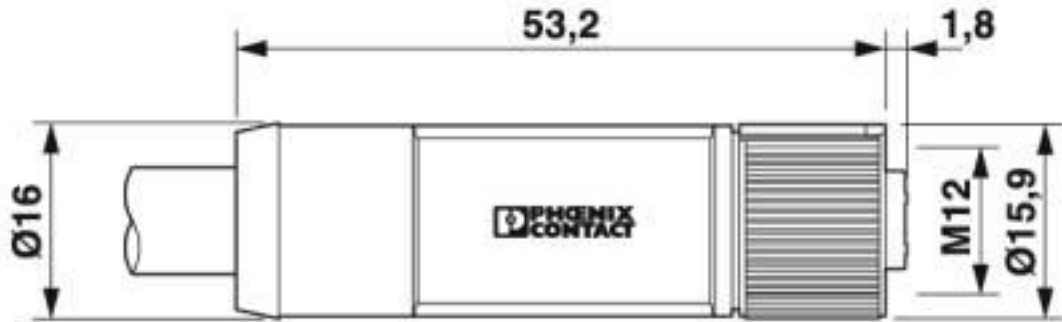
Dimensional drawing



Plug, M12 x 1, straight, shielded

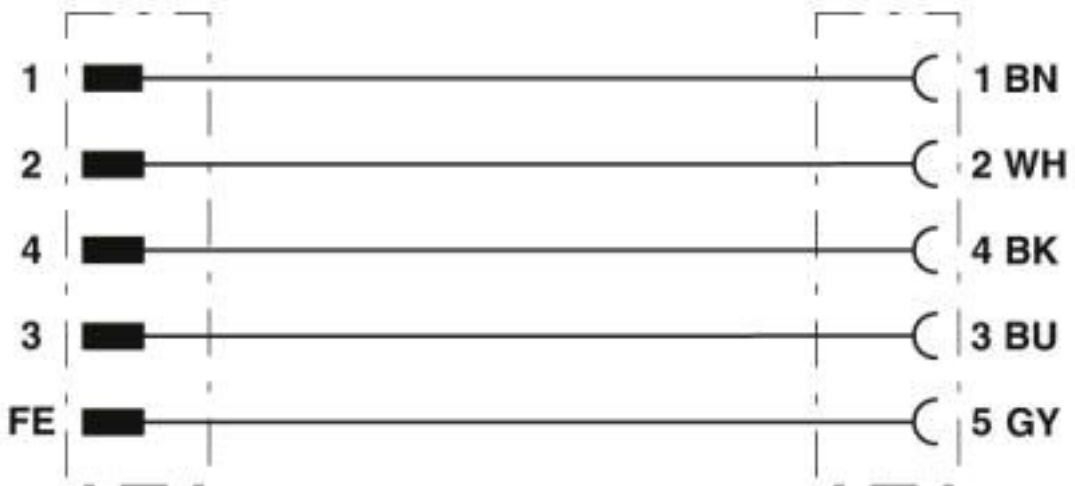
Power cable - SAC-5P-M12MSL/3,0-500/FSL FE - 1425016

Dimensional drawing



M12 x 1 socket, straight

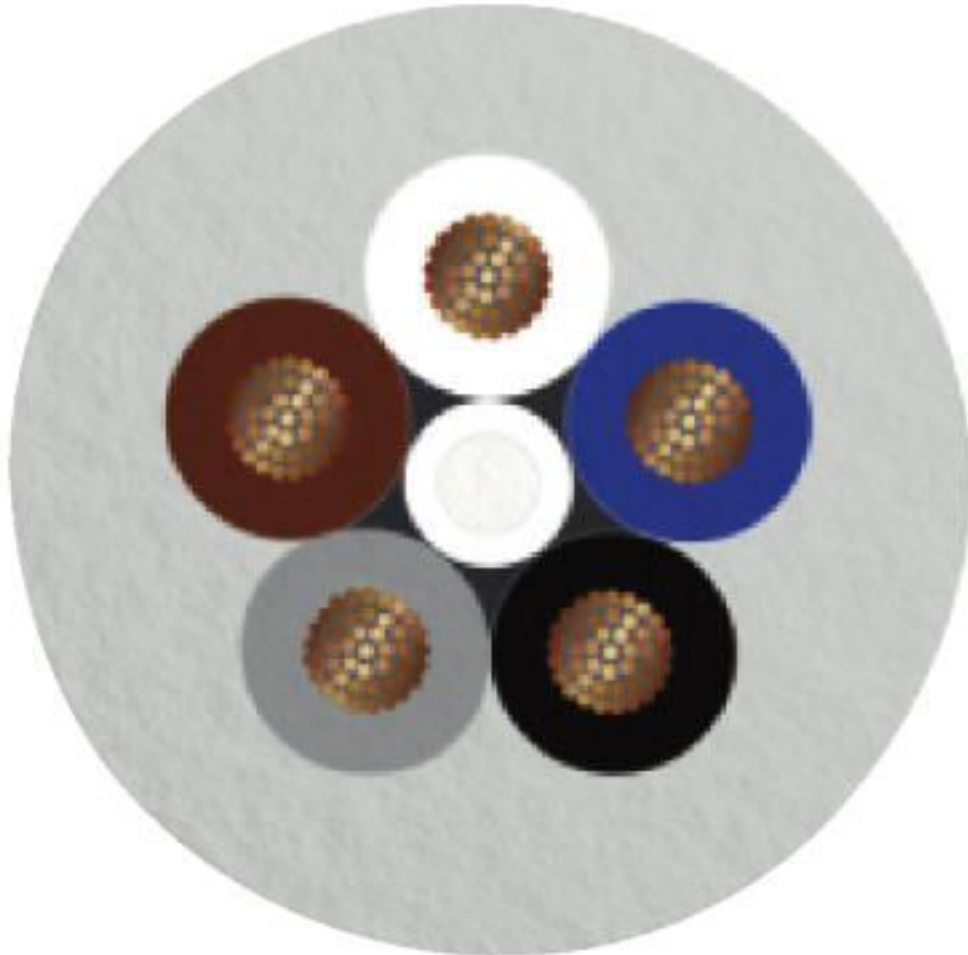
Circuit diagram



Contact assignment of M12 connector/socket

Power cable - SAC-5P-M12MSL/3,0-500/FSL FE - 1425016

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/3,0-500/FSL FE - 1425016

Approvals


Approvals


Approvals

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

Ex Approvals


Approval details

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

cUL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	E468743
Nominal voltage UN	63 V		
Nominal current IN	16 A		
mm ² /AWG/kcmil	14		

EAC-RoHS		RU D- DE.HB35.B.00387
----------	---	--------------------------

EAC		RU C- DE.BL08.B.00286
-----	---	--------------------------

cULus Listed		
--------------	---	--

Accessories

Accessories

Protective cap

Power cable - SAC-5P-M12MSL/3,0-500/FSL FE - 1425016

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

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

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

Phoenix Contact 2020 © - all rights reserved
<http://www.phoenixcontact.com>

PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstr. 8
32825 Blomberg
Germany
Tel. +49 5235 300
Fax +49 5235 3 41200
<http://www.phoenixcontact.com>

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Phoenix Contact:](#)

[1425016](#)