

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

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Power cable, 5-position, PVC, gray RAL 7001, Plug straight M12, L-coded, on Socket straight M12, L-coded, cable length: 3 m, for direct current up to 16 A/63 V

Why buy this product

- Easy and safe: 100% electrically tested plug-in components
- High-performance: DC connectors for up to 16 A and 63 V DC
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Key Commercial Data

Packing unit	1 STK
GTIN	 4 055626 383538
GTIN	4055626383538

Technical data

Dimensions

Length of cable	3 m
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Ambient conditions

Ambient temperature (operation)	-25 °C ... 85 °C (Plug / socket)
Degree of protection	IP65
	IP67
	IP68

General

Rated current at 40°C	16 A
Rated voltage	63 V (DC)
	63 V DC
Number of positions	5
Insulation resistance	≥ 100 MΩ

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Technical data

General

Coding	L - Power
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	CuSn
Contact surface material	Ni/Au
Contact carrier material	PA
Material of grip body	PA
Material, knurls	Zinc die-cast, nickel-plated

Standards and Regulations

Flammability rating according to UL 94	V0
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Cable

Cable type	PVC
Cable type (abbreviation)	500
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

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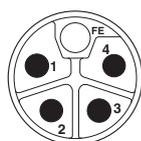
Technical data

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)

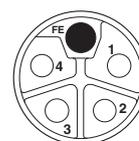
Drawings

Schematic diagram



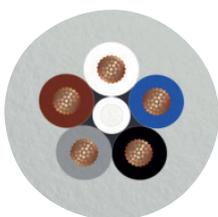
Pin assignment of M12 connector, 5-pos., L-coded, pin side view

Schematic diagram

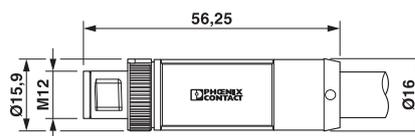


Pin assignment of M12 socket, 5-pos., L-coded, socket side view

Cable cross section



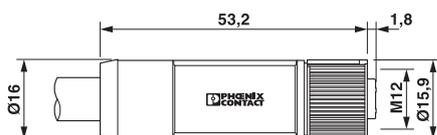
Dimensional drawing



Plug, M12 x 1, straight, shielded

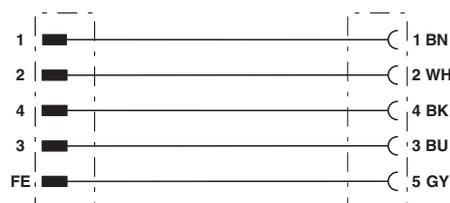
PVC [500]

Dimensional drawing



M12 x 1 socket, straight

Circuit diagram



Contact assignment of M12 connector/socket

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Approvals

Approvals

Approvals

EAC

Ex Approvals

Approval details

EAC		EAC-Zulassung
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