



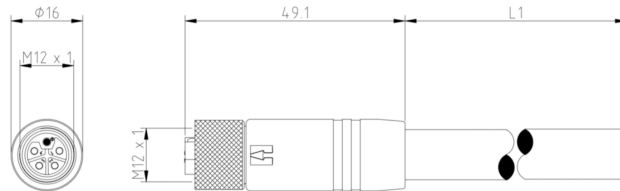
Product: [RKT 5L-1001 SW](#)

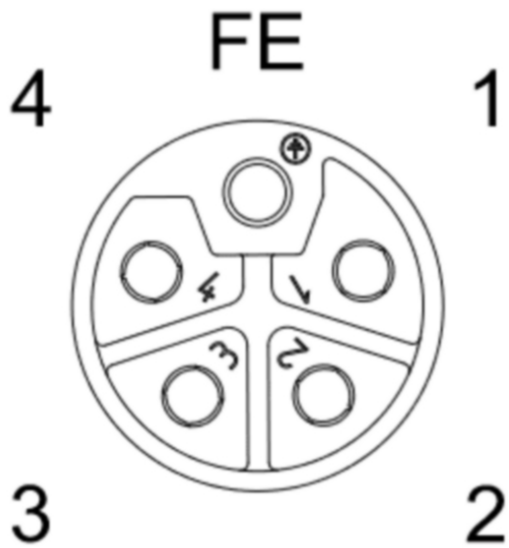
M12 Power Single-Ended Cordset: Female, straight, 5-pin(4+FE), L-coded, black body, 50 V AC/60 V DC, 16 A; TPE black cable, 1.50 mm²

Product Description

M12 Power Single-Ended Cordset: Female, straight, 5-pin(4+FE), L-coded, black body, 50 V AC/60 V DC, 16 A; TPE black cable, 1.50 mm²

Technical Drawing





1 = BN
 2 = WH
 3 = BU
 4 = BK
 FE = GY

Technical Specifications

Technical Data

Product Family:	Power Connector
Product Sub Family:	M12 Power
Brand:	Lumberg Automation
Connector Type:	Cordset, single ended
Type of Contact / Gender:	female
Connector Design:	straight
Number of Pins:	5
Coding:	L
Shielding:	Unshielded
Attachment Type:	Coupling Nut
Rated Voltage:	63 V
Rated Voltage (UL):	63 V
Rated Impulse Voltage:	1.5 kV
Rated Current*:	16 A
Rated Current (UL)*:	16 A
Contact Resistance:	≤ 10 mOhm
Insulation Resistance:	> 10 ⁹ Ohm
Mating Cycles:	≤ 100

Ambient Temperature (Operation)*:	-40 °C to +125 °C, notice derating
Protection Degree / IP Rating**:	IP65, IP67, IP69K
Design Standard:	IEC 61076-2-111
Pollution Degree:	3 acc. to DIN EN 60664-1 (VDE 0110-1)
Clearance / Creepage Distance:	DIN EN 60664-1 (2008/01); VDE 0110-1
Overvoltage Category:	III acc. to DIN EN 60664-1 (VDE 0110-1)

Materials

Contact Base Material:	CuNi
Contact Plating:	Cu/Au
Contact Bearer Material:	PBT GF
Contact Bearer Color:	grey
Flammability Class (Contact Bearer):	UL 94 V-2
Molded Body Material:	TPE
Molded Body Color:	black
Flammability Class (Molded Body):	UL 94 HB
Attachment Material:	CuZn
Attachment Plating:	Cu/Ni
O-Ring Material:	FKM

Additional Technical Data

Fastening Torque (Contact Screw):	M 12x1: (60-65) Ncm, hand-tight
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Cable Data

Cable Number:	1001
Conductor Size:	1.50 mm ²
Conductor Resistance:	≤ 13.3 Ω/km (at 20 °C)
Number of Wires:	5
Minimal Bending Radius (Fixed Inst):	> 10 x D
Minimal Bending Radius (Flexible Inst):	> 10 x D
Cycles (Bending):	> 1 Mio
Conductor material:	Cu
Cable Jacket Material:	TPE
Cable Jacket Color:	black
Cable Diameter D:	Ø 9.4 mm ± 0.2 mm
Wire Insulation Material:	PVC
Insulated Wire Diameter:	ø 2.55 mm
Overall Shield (Cable):	-
Ambient Temperature (Fixed Installation):	-40 °C to +90 °C
Ambient Temperature (Flex Installation):	-5 °C to +90 °C
Ambient Temperature (Drag Chain Inst):	-
UL Cable Type:	UL/CSA, NEC (UL) TC_ER, WTTC or AWM Style 20328 (900 V 105 °C)
Flammability Class (Cable Jacket):	UL1685 FT4/IEEE 1202 Vertical Tray Flame Test, FT4

Approvals

UL-File:	E497237
UL:	UL 2237; cULus
VDE:	Yes

Safety & Environmental Compliance

RoHS Compliant:	Yes
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Resistances

Halogenfree:	-
Oil Resistance:	Oil Res II

Notes

Note Derating:	* Notice derating
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Product Characteristics:	To ensure ingress protection, please check the O-ring's position before connecting. Improperly positioned O-ring leads to ingress protection potential failure.
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