

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



M12 Power | Cordset | Female Straight → Open End, 5-pin L-code, TPE (1.50 mm²) 16 AWG, 63 V / 16 A

Product Description

M12 Power | Single-Ended Cordset | M12 Female Straight, #Contacts 5 (4+FE), L-code → Open End | Cable: Black TPE; 1.50 mm² (16 AWG) | 63 V / 16 A

Technical Specifications

Face View

Pin 1	Pin 2	Pin 3	Pin 4	FE
brown	white	blue	black	grey

Technical Data

Product Family:	Power Connector
Side 1 Product Sub Family:	M12 Power
Brand:	Lumberg Automation
Connector Type:	Cordset, single ended
Side 1 Type of Contact/Gender:	Socket Contact / Female
Connector Design:	Molded M12 Female Straight
Number of Pins:	5 (4+FE)
Coding, Side 1:	L
Shielding Type:	Unshielded
Attachment Type:	Coupling Nut
Voltage Rating:	63 V
Rated Voltage (UL):	63 V
Rated Impulse Voltage:	1.5 kV
Operating Voltage:	60 V AC/DC
Current Rating:	16 A
Rated Current (UL)*:	16 A
Side 1 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
Side 1 Design Standard:	IEC 61076-2-111
Side 1 Pollution Degree:	3 acc. to IEC 60664-1
Clearance / Creepage Distance:	IEC 60664-1 (2020-05)
Overvoltage Category:	III acc. to IEC 60664-1

Materials

Contact Base Material:	Copper Alloy (CuNi)
Side 1 Contact Plating:	Gold over Copper (Cu/Au)

Contact Bearer Material:	Glass-filled Polybutylene Terephthalate (PBT GF)
Contact Bearer Color:	Grey
Flammability Class (Contact Bearer):	UL 94 V-2
Molded Body Material:	Thermoplastic Elastomer (TPE)
Molded Body Color:	Black
Flammability Class (Molded Body):	UL 94 HB
Attachment Material:	Copper Alloy (CuZn)
Attachment Plating:	Nickel (Ni)
O-Ring Material:	Fluoroelastomer (FKM)

Additional Technical Data

Fastening Torque (Attachment):	M 12x1: (50-60) Ncm, hand-tight
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Cable Data

Cable Number:	1001
Conductor Size:	1.50 mm²
Conductor Resistance:	≤ 13.3 Ω/km
Number of Wires:	5
Minimal Bending Radius (Fixed Inst):	> 4 x D
Minimal Bending Radius (Flexible Inst):	> 4 x D
Cycles (Bending):	> 2 Mio, max. 50 m/s²
Conductor Material:	Cu
Cable Jacket Material:	Thermoplastic Elastomer (TPE)
Cable Jacket Color:	Black
Cable Diameter D:	Ø 9.4 0.370"
Wire Insulation Material:	Polyvinyl Chloride-Polyamide (PVC-PA)
Insulated Wire Diameter:	Ø 2.55 mm 0.100 "
Overall Shield (Cable):	Unshielded
Ambient Temperature (Fixed Installation):	- 40° C to + 90° C
Ambient Temperature (Flex Installation):	- 5° C to + 90° C
UL Cable Type:	NEC: TC-ER or AWM Style 20328
Flammability Class (Cable Jacket):	UL 1685 FT4/IEEE 1202 Vertical Tray Flame Test, FT4
Cable Characteristics:	Flexibility: Excellent Abrasion Resistance: Good to Excellent Oil & Chemical Resistance: Good, OIL RES II UV Resistance: Good, SUN RES Low Temp Performance: Good to Excellent (flexible to -40°C) Flame Retardance: UL1685 FT4/IEEE 1202 Vertical Tray Flame Test Halogen-Free: No Mechanical Durability: Good to High (resists impact, tear, and flex) Environmental Suitability: Outdoor, oily, wet, or rough environments

Approvals

UL-File:	E497237
UL:	UL 2237; cULus

Safety & Environmental Compliance

RoHS Compliant:	Yes
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Resistances

Halogenfree:	No
Oil Resistance:	Oil Res II

Notes

Note Derating:	* Notice derating
Protection Degree / IP Rating Note:	IP Rating tested according to IEC standard using combination of a Hirschmann or Lumberg Automation connector mounted and locked
Note:	1. Do not connect or disconnect under load.
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.

Variants

Item #	Item Description	Cable Length
934849171	RKT 5L-1001/1 M	1 m
934849153	RKT 5L-1001/2 M	2 m
934849156	RKT 5L-1001/5 M	5 m
934849159	RKT 5L-1001/6 M	6 m
934849162	RKT 5L-1001/10 M	10 m
934849165	RKT 5L-1001/15 M	15 m
934849168	RKT 5L-1001/20 M	20 m

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