

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



M12 Single-Ended Cordset, Industrial Power Applications, TPE black cable, unshielded, female, straight, L-coded, 5-Pin (4+FE), 5x1.5 mm²

Product Description

M12 Single-Ended Cordset, Industrial Power Applications, TPE black cable, unshielded, AWM: 20328, female, straight, L-coded, 5-pin, 5x1.5 mm², 50 V AC / 60 V DC operating voltage, rated current 16 A, -40 °C ... 125 °C (operating temp.), suited for IP65, IP67, IP69K environment, IEC 61076-2-111, UL 2237; cULus

Technical Specifications

Face View

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

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:	female
Connector Design:	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 ... 125 °C, notice derating
Protection Degree / IP Rating**:	IP65, IP67
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:	CuNi
Side 1 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, max. 50 m/s ²
Cycles (Torsion):	-
Conductor Material:	Cu
Cable Jacket Material:	TPE
Cable Jacket Color:	black
Cable Diameter D:	ø 9.4 ±0,2
Wire Insulation Material:	PVC / PA
Insulated Wire Diameter:	ø 2.55 mm
Overall Shield (Cable):	-
Ambient Temperature (Fixed Installation):	-40 °C ... 90 °C
Ambient Temperature (Flex Installation):	-5 °C to +90 °C
Ambient Temperature (Fixed Installation short-term 100h):	-5 °C ... 90 °C
Ambient Temperature (Drag Chain Inst):	-
UL Cable Type:	AWM: 20328
Flammability Class (Cable Jacket):	UL1685 FT4/IEEE 1202 Vertical Tray Flame Test, FT4

Approvals

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

Safety & Environmental Compliance

RoHS Compliant:	yes
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Resistances

Halogenfree:	-
Oil Resistance:	Oil Res II

Notes

Note Derating:	* Notice derating
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

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