



Product: [RS 50-RKT 5L-949 SW](#) 

Product Description

MINI-M12 Power Double-Ended Cordset: 7/8" Male straight, 5-pin, A-coded to M12 Female straight, 5-pin, L-coded, black body, 50 V AC/60 V DC, 16 A; PUR Grey cable, 1.50 mm²

Technical Specifications

Product Description

Product Family:	Power Connector
Brand:	Lumberg Automation
Connector Type:	Cordset, double ended
Shielding Type:	Unshielded
Voltage Rating:	63 V
Rated Voltage (UL):	63 V
Rated Impulse Voltage:	1.5 kV
Operating Voltage:	60 V AC/DC
Current Rating:	9 A
Rated Current (UL)*:	9 A

Technical Data Side 1

Side 1 Product Sub Family:	7/8"
Side 1 Type of Contact/Gender:	Pin Contact / Male
Connector Design:	Molded 7/8" Male Straight
Attachment Type:	Coupling Screw
Number of Pins:	5
Coding, Side 1:	A
Side 1 Contact Resistance:	≤ 10 mOhm
Insulation Resistance:	> 10 ⁹ Ohm
Mating Cycles:	≤ 100
Ambient Temperature (Operation)*:	-40 °C to +90 °C, notice derating
Protection Degree / IP Rating**:	IP65, IP67, IP69K
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
Contact Base Material:	Copper Alloy (CuZn)
Side 1 Contact Plating:	Gold over Copper (Cu/Au)
Contact Bearer Material:	Thermoplastic Polyurethane (TPU)
Contact Bearer Color:	Black
Flammability Class (Contact Bearer):	UL 94 HB
Molded Body Material:	Thermoplastic Polyurethane (TPU)
Molded Body Color:	Black

Flammability Class (Molded Body):	UL 94 HB
Attachment Material:	Aluminium (Al)
Attachment Plating:	Anodized Black
Fastening Torque (Attachment):	7/8": (50-60) Ncm, hand-tight
Note:	1. Do not connect or disconnect under load.

Cable Data

Cable Number:	949
Conductor Size:	1.50 mm ²
Number of Wires:	5
Minimal Bending Radius (Fixed Inst):	> 4 x D
Minimal Bending Radius (Flexible Inst):	> 7.5 x D
Cycles (Bending):	> 10 Mio, max. 50 m/s ²
Cycles (Torsion):	> 5 Mio @ ± 30 °/1 m
Conductor Material:	Cu
Cable Jacket Material:	Polyurethane (PUR)
Cable Jacket Color:	Grey
Cable Diameter D:	Ø 8.0 0.314"
Wire Insulation Material:	Polypropylene (PP)
Insulated Wire Diameter:	Ø 2.35 mm 0.092"
Overall Shield (Cable):	Unshielded
Ambient Temperature (Fixed Installation):	- 40° C to + 90° C
Ambient Temperature (Flex Installation):	- 30° C to + 90° C
Ambient Temperature (Fixed Installation short-term 100h):	- 40° C to + 125° C
Ambient Temperature (Drag Chain Inst):	- 20° C to + 60° C
UL Cable Type:	AWM: 20939
Flammability Class (Cable Jacket):	VDE 0482-332-1-2, DIN EN 60332-1-2 / IEC 60332-1 / UL VW-1, CSA FT1
Cable Characteristics:	Flexibility: Excellent Abrasion Resistance: Excellent Oil & Chemical Resistance: Excellent UV Resistance: Good to excellent Low Temp Performance: Excellent (flexible to -40°C) Flame Retardance: VDE 0482-332-1-2, DIN EN 60332-1-2 / IEC 60332-1 Halogen-Free: Yes, DIN VDE 0472 T.815 Mechanical Durability: High (resists impact, tear, and flex) Environmental Suitability: Outdoor, oily, wet, or rough environments

Technical Data Side 2

Side 2 Product Sub Family:	M12 Power
Side 2 Type of Contact/Gender:	Socket Contact / Female
Connector Design, Side 2:	Molded M12 Female Straight
Attachment Type, Side 2:	Coupling Nut
Number of Pins, Side 2:	5 (4+FE)
Coding, Side 2:	L
Contact Resistance, Side 2:	≤ 10 mOhm
Insulation Resistance, Side 2:	> 10 ⁹ Ohm
Mating Cycles, Side 2:	≤ 100
Ambient Temperature (Operation), Side 2*:	-40 °C to +125 °C, notice derating
Protection Degree / IP Rating, Side 2**:	IP65, IP67, IP69K
Design Standard, Side 2:	IEC 61076-2-111
Pollution Degree, Side 2:	3 acc. to IEC 60664-1
Clearance / Creepage Distance, Side 2:	IEC 60664-1 (2020-05)
Overvoltage Category, Side 2:	III acc. to IEC 60664-1
Contact Base Material, Side 2:	Copper Alloy (CuNi)
Contact Plating, Side 2:	Copper over Gold (Cu/Au)
Contact Bearer Material, Side 2:	Glass-filled Polybutylene Terephthalate (PBT GF)
Contact Bearer Color, Side 2:	Grey

Flammability Class (Contact Bearer), Side 2:	UL 94 V-2
Molded Body Material, Side 2:	Thermoplastic Elastomer (TPE)
Molded Body Color, Side 2:	Black
Flammability Class (Molded Body), Side 2:	UL 94 HB
Attachment Material, Side 2:	CuZn
Attachment Plating, Side 2:	Nickel (Ni)
O-Ring Material, Side 2:	Fluoroelastomer (FKM)
Fastening Torque (Attachment), Side 2:	M 12x1: (50-60) Ncm, hand-tight
Note, Side 2:	1. Do not connect or disconnect under load.

Approvals

UL-File:	E497237
UL:	UL 2237; cULus

Safety & Environmental Compliance

RoHS Compliant:	Yes
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Resistances

Halogenfree:	DIN VDE 0472 T.815
Oil Resistance:	HD 22.10 Appendix A, DIN EN 60811-404

Notes

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 Derating:	* Notice derating

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