

Product: [RST 5L-RKT 5L-949](#)



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

Product Description

M12 Power | Double-Ended Cordset | M12 Male Straight, #Contacts 5 (4+FE), L-code → M12 Female Straight, #Contacts 5 (4+FE), L-code | Cable: Grey PUR; 1.50 mm² (16 AWG) | 63 V / 16 A

Technical Specifications

Face View Side 1

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

Face View Side 2

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

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:	16 A
Rated Current (UL)*:	16 A

Technical Data Side 1

Side 1 Product Sub Family:	M12 Power
Side 1 Type of Contact/Gender:	Pin Contact / Male
Connector Design:	Molded M12 Male Straight
Attachment Type:	Coupling Screw
Number of Pins:	5 (4+FE)
Coding, Side 1:	L
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
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)
Fastening Torque (Attachment):	M 12x1: (50-60) Ncm, hand-tight
Note:	1. Do not connect or disconnect under load.

Cable Data

Cable Number:	949
Conductor Size:	1.50 mm²
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/s²
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 Style 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:	Copper Alloy (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
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
934853163	RST 5L-RKT 5L-949/0,3 M	0.3 m
934853163	RST 5L-RKT 5L-949/0,3 M	0.3 m
25831	RST 5L-RKT 5L-949/0,5 M	0.5 m
934853164	RST 5L-RKT 5L-949/0,6 M	0.6 m
934853165	RST 5L-RKT 5L-949/1 M	1 m
934853165	RST 5L-RKT 5L-949/1 M	1 m
21804	RST 5L-RKT 5L-949/1,5 M	1.5 m
934853166	RST 5L-RKT 5L-949/2 M	2 m
934853166	RST 5L-RKT 5L-949/2 M	2 m
530021057	RST 5L-RKT 5L-949/3 M	3 m
21057	RST 5L-RKT 5L-949/3 M	3 m
26133	RST 5L-RKT 5L-949/3 M SW	3 m
24142	RST 5L-RKT 5L-949/4 M	4 m
934853167	RST 5L-RKT 5L-949/5 M	5 m
26135	RST 5L-RKT 5L-949/5 M SW	5 m
25733	RST 5L-RKT 5L-949/6 M	6 m
530023935	RST 5L-RKT 5L-949/7 M	7 m
22695	RST 5L-RKT 5L-949/7,5 M	7.5 m
25734	RST 5L-RKT 5L-949/8 M	8 m
934853168	RST 5L-RKT 5L-949/10 M	10 m
26138	RST 5L-RKT 5L-949/10 M SW	10 m
934853168	RST 5L-RKT 5L-949/10 M	10 m
24143	RST 5L-RKT 5L-949/12 M	12 m

25735	RST 5L-RKT 5L-949/14 M	14 m
26140	RST 5L-RKT 5L-949/15 M SW	15 m
21058	RST 5L-RKT 5L-949/15 M	15 m
25736	RST 5L-RKT 5L-949/18 M	18 m
530021059	RST 5L-RKT 5L-949/20 M	20 m
21059	RST 5L-RKT 5L-949/20 M	20 m
26147	RST 5L-RKT 5L-949/20 M SW	20 m
530021060	RST 5L-RKT 5L-949/25 M	25 m
530021061	RST 5L-RKT 5L-949/30 M	30 m
21061	RST 5L-RKT 5L-949/30 M	30 m
530028597	RST 5L-RKT 5L-949/35 M	35 m
530028598	RST 5L-RKT 5L-949/40 M	40 m
530028599	RST 5L-RKT 5L-949/45 M	45 m
530030371	RST 5L-RKT 5L-949/46 M	46 m
530021062	RST 5L-RKT 5L-949/50 M	50 m
530028600	RST 5L-RKT 5L-949/55 M	55 m
530028602	RST 5L-RKT 5L-949/60 M	60 m
530028603	RST 5L-RKT 5L-949/65 M	65 m
530028604	RST 5L-RKT 5L-949/70 M	70 m
530028606	RST 5L-RKT 5L-949/75 M	75 m
530028607	RST 5L-RKT 5L-949/80 M	80 m

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