

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



M12 to M12 cordset, Industrial Power Applications, PUR grey cable, unshielded, male to female, straight to angled, L-coded, 5-Pin (4+FE), 5x1.5 mm<sup>2</sup>

**Product Description**

M12 to M12 cordset, Industrial Power Applications, PUR gray cable, unshielded, AWM: 20939, male to female, straight to angled, L-coded, 5-pin, 5x1.5 mm<sup>2</sup>, 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 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:	male
Connector Design:	straight
Attachment Type:	Coupling Screw
Number of Pins:	5(4+FE)
Coding, Side 1:	L
Side 1 Contact Resistance:	≤ 10 mOhm
Insulation Resistance:	> 10 <sup>9</sup> Ohm
Mating Cycles:	≤ 100
Ambient Temperature (Operation)*:	-40 °C ... 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:	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
Fastening Torque (Contact Screw):	M 12x1: (60-65) Ncm, hand-tight

## Cable Data

Cable Number:	949
Conductor Size:	1.50 mm <sup>2</sup>
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 <sup>2</sup>
Cycles (Torsion):	> 5 Mio @ ± 30 °/1 m
Conductor Material:	Cu
Cable Jacket Material:	PUR
Cable Jacket Color:	grey (RAL 7032)
Cable Diameter D:	ø 8.0 ±0.2
Wire Insulation Material:	PP
Insulated Wire Diameter:	ø 2.35 mm
Ambient Temperature (Fixed Installation):	-30 °C ... 80 °C
Ambient Temperature (Flex Installation):	-40 °C ... 125 °C
Ambient Temperature (Fixed Installation short-term 100h):	-40 °C ... 80 °C
Ambient Temperature (Drag Chain Inst):	-20 °C ... 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

## Technical Data Side 2

Side 2 Product Sub Family:	M12 Power
Side 2 Type of Contact/Gender:	female
Connector Design, Side 2:	angled
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 <sup>9</sup> Ohm
Mating Cycles, Side 2:	≤ 100
Ambient Temperature (Operation), Side 2*:	-40 °C ... 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:	CuNi
Contact Plating, Side 2:	Cu/Au
Contact Bearer Material, Side 2:	PBT GF
Contact Bearer Color, Side 2:	grey
Flammability Class (Contact Bearer), Side 2:	UL 94 V-2
Molded Body Material, Side 2:	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:	Cu/Ni
O-Ring Material, Side 2:	FKM
Fastening Torque (Contact Screw), Side 2:	M 12x1: (60-65) Ncm, hand-tight

## Approvals

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

## Safety & Environmental Compliance

RoHS Compliant:	yes
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## Resistances

Halogenfree:	DIN VDE 0472 T.815, IEC 60754-1
Oil Resistance:	HD 22.10 Appendix A, DIN EN 60811-404

## Notes

Protection Degree / IP Rating Note:	** only if mounted and locked in combination with Hirschmann / Lumberg Automation connector.
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
26154	RST 5L-RKWT 5L-949/10 M SW	
26149	RST 5L-RKWT 5L-949/3 M SW	
934853755	RST 5L-RKWT 5L-949/1 M HUM	
26158	RST 5L-RKWT 5L-949/20 M SW	
26150	RST 5L-RKWT 5L-949/5 M SW	
934853170	RST 5L-RKWT 5L-949/0,3 M	0.3 m
934853171	RST 5L-RKWT 5L-949/0,6 M	0.6 m
934853172	RST 5L-RKWT 5L-949/1 M	1 m
934853173	RST 5L-RKWT 5L-949/2 M	2 m
934853174	RST 5L-RKWT 5L-949/5 M	5 m
934853175	RST 5L-RKWT 5L-949/10 M	10 m

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