



Product: [OBS RKTS 5L-956 SW](#) 

Life Cycle Status: Obsolete

Replaced by: [RKTS 5L-956](#)

Obsolete | Replacement: RKTS 5L-956

Product Description

M12 Power | Single-Ended Cordset | M12 Female Angled, #Contacts 5, L-code → Open End | Cable: Grey PUR; 1.50 mm² (16 AWG) | 63 V / 16 A | 360° Shield Protection

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:	Socket Contact / Female
Connector Design:	Molded M12 Female Straight
Number of Pins:	5 (4+PE)
Coding, Side 1:	L
Shielding Type:	Shielded
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, 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)
Shielding Material:	CuZn, plating: 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:	956
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):	> 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 10.4 0.409"
Wire Insulation Material:	Polypropylene (PP)
Insulated Wire Diameter:	Ø 2.35 mm 0.092"
Inner Jacket:	TPE-O
Overall Shield (Cable):	Tinned Copper Braided Screen
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

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

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
934849384	RKTS 5L-956/2 M SW	2 m
934849385	RKTS 5L-956/5 M SW	5 m
934849386	RKTS 5L-956/10 M SW	10 m

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