

Product: RKWTS 5L-1021 ☑

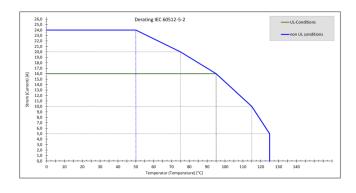


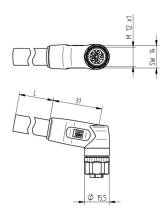
M12 Power Single-Ended Cordset: Female, angled, 5-pin(4+FE), L-coded, shielded, blue body, 50 V AC/60 V DC, 20 A; PUR grey cable, ca. 2,5mm²

Product Description

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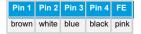
Technical Drawing





Technical Specifications

Face View



Technical Data

Product Family:	Power Connector	
Product Sub Family:	M12 Power	
Brand:	Belden	
Connector Type:	Cordset, single ended	
Type of Contact / Gender:	female	
Connector Design:	angled	
Number of Pins:	5	
Coding:	L	
Shielding:	Shielded	
Attachment Type:	Coupling Nut	
Rated Voltage:	63 V	
Rated Voltage (UL):	63 V	
Rated Impulse Voltage:	1.5 kV	
Operating Voltage:	50 V AC / 60 V DC	
Rated Current*:	24 A	
Rated Current (UL)*:	20 A	

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	
Design Standard:	IEC 61076-2-111	
Pollution Degree:	3 acc. to DIN EN 60664-1 (VDE 0110-1)	
Clearance / Creepage Distance:	DIN EN 60664-1 (2008/01); VDE 0110-1	
Overvoltage Category:	III acc. to DIN EN 60664-1 (VDE 0110-1)	

Materials

Contact Base Material:	Cuni
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:	blue
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:	1021	
Conductor Size:	2.5 mm ²	
Conductor Resistance:	≤ 8.2 Ω/km (at 20 °C)	
Number of Wires:	5	
Minimal Bending Radius (Fixed Inst):	>4xD	
Minimal Bending Radius (Flexible Inst):	>7.5 x D	
Cycles (Bending):	> 10 M	
Conductor material:	Cu	
Cable Jacket Material:	PUR	
Cable Jacket Color:	grey (RAL 7032)	
Cable Diameter D:	ø 10.6 ±0.20 mm	
Wire Insulation Material:	PP	
Insulated Wire Diameter:	ø 2.55 mm	
Overall Shield (Cable):	tinned copper braided screen	
Ambient Temperature (Fixed Installation):	-40 °C to +90 °C (UL AWM 80°C)	
Ambient Temperature (Flex Installation):	-30 °C to +90 °C (UL AWM 80°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
VDE:	No

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:	** only if mounted and locked in combination with Hirschmann / Lumberg Automation connector.	
Product Characteristics: To ensure ingress protection, please check the O-ring's position before connecting. Improperly positioned O-ring leads to ingress protection pote failure.		

Variants

Item #	Item Description
934850189	RKWTS 5L-1021/3 M
934850190	RKWTS 5L-1021/5 M
934850191	RKWTS 5L-1021/10 M
934850192	RKWTS 5L-1021/15 M

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