



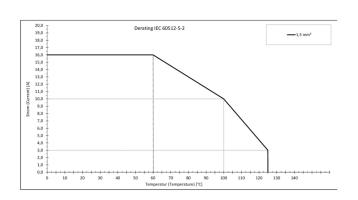
Product: RST 4L-RKWT 4L-996 SW ☑

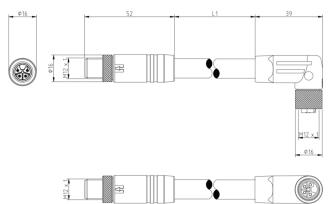
M12 Power Double-Ended Cordset: Male straight to Female angled, 4-pin, L-coded, black body, 50 V AC/60 V DC, 16 A; TPE yellow cable, 1.50 mm²

Product Description

M12 Power Double-Ended Cordset: Male straight to Female angled, 4-pin, L-coded, black body, 50 V AC/60 V DC, 16 A; TPE yellow cable, 1.50 mm²

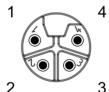
Technical Drawing





Male View

Female View





1 = BN	
2 = WH	
3 = BU	
4 = BK	

4 = BK

Technical Specifications

Product Description

Product Family:	Power Connector
Brand:	Lumberg Automation
Connector Type:	Cordset, double ended

Shielding:	Unshielded
Rated Voltage:	63 V
Rated Voltage (UL):	63 V
Rated Impulse Voltage:	1.5 kV
Rated Current*:	16 A
Rated Current (UL)*:	16 A

Technical Data Side 1

Product Sub Family:	M12 Power
Type of Contact / Gender:	male
Connector Design:	straight
Attachment Type:	Coupling Screw
Number of Pins:	4
Coding:	L
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)
Contact Base Material:	CuNi
Contact Plating:	Cu/Au
Contact Bearer Material:	PBT GF
Contact Bearer Color:	black
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: (50-60) Ncm, hand-tight

Cable Data

Cable Number:	996
Conductor Size:	1.50 mm ²
Number of Wires:	4
Minimal Bending Radius (Fixed Inst):	>10 x D
Minimal Bending Radius (Flexible Inst):	> 10 x D
Cycles (Bending):	> 1 Mio
Conductor material:	Cu
Cable Jacket Material:	TPE
Cable Jacket Color:	yellow
Cable Diameter D:	Ø 8.7 mm ± 0.2 mm
Wire Insulation Material:	PVC / PVC-Polyamid
Insulated Wire Diameter:	ø 2.55 mm
Overall Shield (Cable):	•
Ambient Temperature (Fixed Installation):	-40 °C to +90 °C
Ambient Temperature (Flex Installation):	-5 °C to +90 °C
Ambient Temperature (Drag Chain Inst):	-
UL Cable Type:	UL/CSA, NEC (UL) TC_ER, WTTC or AWM Style 20328 (900 V 105 °C)
Flammability Class (Cable Jacket):	UL1685 FT4/IEEE 1202 Vertical Tray Flame Test, FT4

Technical Data Side 2

Protection Degree / IP Rating, Side 2**: IP65, IP67, IP69K Design Standard, Side 2: IEC 61076-2-111 Pollution Degree, Side 2: 3 acc. to DIN EN 60664-1 (VDE 0110-1) Clearance / Creepage Distance, Side 2: DIN EN 60664-1 (2008/01); VDE 0110-1 Overvoltage Category, Side 2: Ill acc. to DIN EN 60664-1 (VDE 0110-1) Contact Base Material, Side 2: Cu/Ni Contact Bearer Material, Side 2: PBT GF Contact Bearer Material, Side 2: black Contact Bearer Color, Side 2: black 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: UL 94 HB Attachment Plating, Side 2: CuZn	Product Sub Family, Side 2:	M12 Power
Attachment Type, Side 2: Coupling Nut Number of Pins, Side 2: 4 Coding, Side 2: L Contact Resistance, Side 2: \$ 10 mOhm Insulation Resistance, Side 2: \$ 100 mOhm Mating Cycles, Side 2: \$ 40° 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 DIN EN 60664-1 (VDE 0110-1) Clearance / Creepage Distance, Side 2: DIN EN 60664-1 (VDE 0110-1) Contact Base Material, Side 2: UII acc. to DIN EN 60664-1 (VDE 0110-1) Contact Base Material, Side 2: Ou/Au Contact Bearer Material, Side 2: Ou/Au Contact Bearer Material, Side 2: Diack Flammability Class (Contact Bearer), Side 2: UL 94 V-2 Molded Body Material, Side 2: UL 94 HB Attachment Material, Side 2: UL 94 HB Attachment Material, Side 2: CuZh Attachment Material, Side 2: CuZh Attachment Material, Side 2: CuZh	Type of Contact / Gender, Side 2:	female
Number of Pins, Side 2: 4 Coding, Side 2: L Contact Resistance, Side 2: \$ 10 mOhm Insulation Resistance, Side 2: \$ 100° Ohm Mating Cydes, Side 2: \$ 100° Ambient Temperature (Operation), Side 2:* \$ 40° C to +125° C, notice derating Protection Degree / IP Rating, Side 2:* !P65, IP67, IP68K Design Standard, Side 2: IEC 61076-2-111 Pollution Degree, Side 2: 3 acc. to DIN EN 60664-1 (VDE 0110-1) Clearance / Creepage Distance, Side 2: DIN EN 60664-1 (VDE 0110-1) Contact Base Material, Side 2: Cu/Ju Contact Base Material, Side 2: Cu/Ju Contact Bearer Naterial, Side 2: biack Flammability Class (Contact Bearer), Side 2: Us 44 v-2 Molded Body Material, Side 2: biack Molded Body Color, Side 2: biack Molded Body Color, Side 2: biack Molded Body Side Side 2: biack Flammability Class (Molded Body), Side 2: biack Flammability Class (Molded Body), Side 2: biack Flammability Class (Molded Body), Side 2: biack Flam	Connector Design, Side 2:	angled
Coding, Side 2: L Contact Resistance, Side 2: \$ 10 mOhm Insulation Resistance, Side 2: \$ 100°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, IP68K Design Standard, Side 2: IEC 61076-2-111 Clearance / Creepage Distance, Side 2: 3 acc. to DIN EN 60664-1 (VDE 0110-1) Clearance / Creepage Distance, Side 2: III acc. to DIN EN 60664-1 (VDE 0110-1) Contact Base Material, Side 2: Cu/iAu Contact Base Material, Side 2: Cu/iAu Contact Bearer Cotor, Side 2: black Flammability Class (Contact Bearer), Side 2: U 94 V-2 Molded Body Material, Side 2: TPE Molded Body Cotor, Side 2: black Flammability Class (Molded Body), Side 2: U. 94 HB Attachment Material, Side 2: Cu/IN O-Ring Material, Side 2: Cu/IN	Attachment Type, Side 2:	Coupling Nut
Contact Resistance, Side 2: \$ 10 mOhm Insulation Resistance, Side 2: \$ 10% Ohm Mating Cycles, Side 2: \$ 100 Ambient Temperature (Operation), Side 2*: 10° 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 DIN EN 60664-1 (VDE 0110-1) Clearance / Creepage Distance, Side 2: DIN EN 60664-1 (VDE 0110-1) Contact Base Material, Side 2: UNI Contact Base Material, Side 2: CuNi Contact Bearer Material, Side 2: PBT GF Contact Bearer Material, Side 2: DIs AC Contact Bearer Color, 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: CuXni O-Ring Material, Side 2: FKM	Number of Pins, Side 2:	4
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 DIN EN 60664-1 (VDE 0110-1) Clearance / Creepage Distance, Side 2: DIN EN 60664-1 (VDE 0110-1) Overvoltage Category, Side 2: Ill acc. to DIN EN 60664-1 (VDE 0110-1) Contact Base Material, Side 2: Cu/Au Contact Baser Material, Side 2: Cu/Au Contact Bearer Material, Side 2: black Flammability Class (Contact Bearer), Side 2: Us 4V-2 Molded Body Material, Side 2: TPE Molded Body Color, Side 2: black Flammability Class (Molded Body), Side 2: Us 94 HB Attachment Material, Side 2: CuZn Attachment Plating, Side 2: KM O-Ring Material, Side 2: KM FKM	Coding, Side 2:	L
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 DIN EN 60664-1 (VDE 0110-1) Clearance / Creepage Distance, Side 2: DIN EN 60664-1 (VDE 0110-1) Cortact Base Material, Side 2: UII acc. to DIN EN 60664-1 (VDE 0110-1) Contact Base Material, Side 2: Cu/Au Contact Bearer Material, Side 2: Cu/Au Contact Bearer Color, Side 2: black 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: CuXi O-Ring Material, Side 2: FKM	Contact Resistance, Side 2:	≤ 10 mOhm
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 DIN EN 60664-1 (VDE 0110-1) Clearance / Creepage Distance, Side 2: DIN EN 60664-1 (VDE 0110-1) Overvoltage Category, Side 2: Ill acc. to DIN EN 60664-1 (VDE 0110-1) Contact Base Material, Side 2: CuNi Contact Plating, Side 2: CuV/Au Contact Bearer Material, Side 2: black Flammability Class (Contact Bearer), Side 2: black Flammability Class (Contact Bearer), Side 2: TPE Molded Body Material, Side 2: L9 4 V-2 Molded Body Color, Side 2: black Flammability Class (Molded Body), Side 2: L9 4 HB Attachment Material, Side 2: CuZn Attachment Plating, Side 2: Cu/Ni O-Ring Material, Side 2: FKM	Insulation Resistance, Side 2:	> 10^9 Ohm
Protection Degree / IP Rating, Side 2**: IP65, IP67, IP69K Design Standard, Side 2: IEC 61076-2-111 Pollution Degree, Side 2: 3 acc. to DIN EN 60664-1 (VDE 0110-1) Clearance / Creepage Distance, Side 2: IN EN 60664-1 (2008/01); VDE 0110-1 Overvoltage Category, Side 2: Ill acc. to DIN EN 60664-1 (VDE 0110-1) Contact Base Material, Side 2: CuNi Contact Baser Material, Side 2: Cu/Au Contact Bearer Material, Side 2: PBT GF Contact Bearer Material, Side 2: black 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: black Flammability Class (Molded Body), Side 2: black Flammability Class (Molded Body), Side 2: UL 94 HB Attachment Material, Side 2: CuZn Attachment Material, Side 2: CuNi O-Ring Material, Side 2: FKM	Mating Cycles, Side 2:	≤ 100
Design Standard, Side 2: IEC 61076-2-111 Pollution Degree, Side 2: 3 acc. to DIN EN 60664-1 (VDE 0110-1) Clearance / Creepage Distance, Side 2: DIN EN 60664-1 (2008/01); VDE 0110-1 Overvoltage Category, Side 2: Ill acc. to DIN EN 60664-1 (VDE 0110-1) Contact Base Material, Side 2: CuNi Contact Plating, Side 2: Cu/Au Contact Bearer Material, Side 2: PBT GF Contact Bearer Color, Side 2: black Flammability Class (Contact Bearer), Side 2: UL 94 V-2 Molded Body Color, Side 2: black Flammability Class (Molded Body), Side 2: black Flammability Class (Molded Body), Side 2: UL 94 HB Attachment Material, Side 2: CuZn Attachment Plating, Side 2: CuVNi O-Ring Material, Side 2: KM	Ambient Temperature (Operation), Side 2*:	-40 °C to +125 °C, notice derating
Pollution Degree, Side 2: 3 acc. to DIN EN 60664-1 (VDE 0110-1) Clearance / Creepage Distance, Side 2: DIN EN 60664-1 (2008/01); VDE 0110-1 Overvoltage Category, Side 2: Ill acc. to DIN EN 60664-1 (VDE 0110-1) Contact Base Material, Side 2: Cu/Ni Contact Plating, Side 2: Cu/Au Contact Bearer Material, Side 2: PBT GF Contact Bearer Color, Side 2: black 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: Cu/Ni Attachment Plating, Side 2: Cu/Ni O-Ring Material, Side 2: FKM	Protection Degree / IP Rating, Side 2**:	IP65, IP67, IP69K
Clearance / Creepage Distance, Side 2: DIN EN 60664-1 (2008/01); VDE 0110-1 Overvoltage Category, Side 2: III acc. to DIN EN 60664-1 (VDE 0110-1) Contact Base Material, Side 2: Cu/Ni Contact Plating, Side 2: Cu/Au Contact Bearer Material, Side 2: PBT GF Contact Bearer Color, Side 2: black 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	Design Standard, Side 2:	IEC 61076-2-111
Overvoltage Category, Side 2: Ill acc. to DIN EN 60664-1 (VDE 0110-1) Contact Base Material, Side 2: Cu/Ni Contact Plating, Side 2: Cu/Au Contact Bearer Material, Side 2: PBT GF Contact Bearer Color, Side 2: black 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: Cu/Zn Attachment Plating, Side 2: Cu/Ni O-Ring Material, Side 2: KKM	Pollution Degree, Side 2:	3 acc. to DIN EN 60664-1 (VDE 0110-1)
Contact Base Material, Side 2: Cu/Au Contact Plating, Side 2: Cu/Au Contact Bearer Material, Side 2: PBT GF Contact Bearer Color, Side 2: black 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: black Flammability Class (Molded Body), Side 2: UL 94 HB Attachment Material, Side 2: CuZn Attachment Plating, Side 2: CuZn Attachment Plating, Side 2: Cu/Ni O-Ring Material, Side 2: FKM	Clearance / Creepage Distance, Side 2:	DIN EN 60664-1 (2008/01); VDE 0110-1
Contact Plating, Side 2: Cu/Au Contact Bearer Material, Side 2: PBT GF Contact Bearer Color, Side 2: black 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: black Flammability Class (Molded Body), Side 2: UL 94 HB Attachment Material, Side 2: Cu/Zn Attachment Plating, Side 2: Cu/Ni O-Ring Material, Side 2: FKM	Overvoltage Category, Side 2:	III acc. to DIN EN 60664-1 (VDE 0110-1)
Contact Bearer Material, Side 2: PBT GF Contact Bearer Color, Side 2: black 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	Contact Base Material, Side 2:	CuNi
Contact Bearer Color, Side 2: black 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	Contact Plating, Side 2:	Cu/Au
Flammability Class (Contact Bearer), Side 2: TPE 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	Contact Bearer Material, Side 2:	PBT GF
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	Contact Bearer Color, Side 2:	black
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	Flammability Class (Contact Bearer), Side 2:	UL 94 V-2
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	Molded Body Material, Side 2:	TPE
Attachment Material, Side 2: CuZn Attachment Plating, Side 2: Cu/Ni O-Ring Material, Side 2: FKM	Molded Body Color, Side 2:	black
Attachment Plating, Side 2: Cu/Ni O-Ring Material, Side 2: FKM	Flammability Class (Molded Body), Side 2:	UL 94 HB
O-Ring Material, Side 2: FKM	Attachment Material, Side 2:	CuZn
	Attachment Plating, Side 2:	Cu/Ni
Fastening Torque (Contact Screw), Side 2: M 12x1: (50-60) Ncm, hand-tight	O-Ring Material, Side 2:	FKM
	Fastening Torque (Contact Screw), Side 2:	M 12x1: (50-60) Ncm, hand-tight

Approvals

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

Safety & Environmental Compliance

RoHS Compliant:	Yes	

Resistances

Halogenfree:	-
Oil Resistance:	Oil Res II

Notes

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.

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