



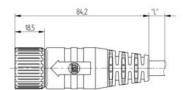
# **Product:** <u>RSU 12-RKU 12-256</u> ☑

M23 Power Double-Ended Cordset: Male straight to female straight, 12-pin, black body, 120 V AC/DC, 8 A; PUR black cable, 8x0.5 mm<sup>2</sup> + 3x1.0 mm<sup>2</sup>

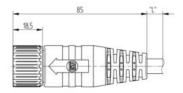
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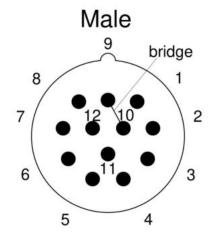
## **Technical Drawing**

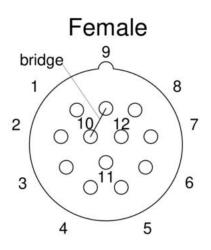












## **Technical Specifications**

### Face View Side 1

Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9	Pin 10	Pin 11	Pin 12
white	green	yellow	grey	grey-pink	red-blue	white-green	brown-green	blue	blue (bridge to pin 9)	brown	green-yellow

## Face View Side 2

Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9	Pin 10	Pin 11	Pin 12
white	green	yellow	grey	grey-pink	red-blue	white-green	brown-green	blue	blue (bridge to pin 9)	brown	green-yellow

## **Product Description**

Product Family:	Power Connector
Brand:	Lumberg Automation
Connector Type:	Cordset, double ended
Shielding:	Unshielded
Rated Voltage:	125 V
Rated Impulse Voltage:	1.5 kV
Operating Voltage:	120 V AC/DC
Rated Current*:	8 A

## **Technical Data Side 1**

Product Sub Family:       M23 Power         Type of Contact / Gender:       male         Connector Design:       straight         Attachment Type:       Coupling Nut         Number of Pins:       12         Insulation Resistance:       > 10^9 Ohm         Mating Cycles:       ≤ 100         Ambient Temperature (Operation)*:       -25°C to +80°C         Protection Degree / IP Rating**:       IP67         Pollution Degree:       3 acc. to DIN EN 60664-1 (VDE 0110-1)         Clearance / Creepage Distance:       acc. to DIN EN 60664-1 (VDE 0110-1)         Overvoltage Category:       II acc. to DIN EN 60664-1 (VDE 0110-1)         Contact Base Material:       CuZn         Contact Bearer Material:       PBT         Contact Bearer Material:       PBT         Contact Bearer Color:       white         Flammability Class (Contact Bearer):       UL 94 V0         Molded Body Color:       black         Flammability Class (Molded Body):       UL 94-HB         Attachment Material:       CuZn, nickel-plated         O-Ring Material:       NBR	
Connector Design: straight  Attachment Type: Coupling Nut  Number of Pins: 12  Insulation Resistance: > 10^9 Ohm  Mating Cycles: \$ 100  Ambient Temperature (Operation)*: -25°C to +80°C  Protection Degree / IP Rating**: IP67  Pollution Degree: 3 acc. to DIN EN 60664-1 (VDE 0110-1)  Clearance / Creepage Distance: acc. to DIN EN 60664-1 (VDE 0110-1)  Overvoltage Category: Il acc. to DIN EN 60664-1 (VDE 0110-1)  Contact Base Material: CuZn  Contact Plating: Cu/Au  Contact Bearer Material: PBT  Contact Bearer Material: PBT  Contact Bearer Color: white  Flammability Class (Contact Bearer): UL 94 V0  Molded Body Material: TPU  Molded Body Color: black  Flammability Class (Molded Body): UL 94-HB  Attachment Material: CuZn, nickel-plated	
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Flammability Class (Molded Body): UL 94-HB Attachment Material: CuZn, nickel-plated	
Attachment Material: CuZn, nickel-plated	
O-Ring Material: NBR	
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Note: Do not connect / disconnect under load.	

## **Cable Data**

Cable Number:	256
Conductor Size:	8x0.5mm² + 3x1.0 mm²
Number of Wires:	11
Minimal Bending Radius (Fixed Inst):	>5xD
Minimal Bending Radius (Flexible Inst):	>10 x D
Cycles (Bending):	>2 M
Conductor material:	Cu
Cable Jacket Material:	PUR
Cable Jacket Color:	black
Cable Diameter D:	Ø 9.30 ±0.20 mm
Wire Insulation Material:	PP
Insulated Wire Diameter:	8x Ø1.45 mm + 3x Ø1.95 mm
Ambient Temperature (Fixed Installation):	-50°C to +80°C
Ambient Temperature (Flex Installation):	-25°C to +80°C
Ambient Temperature (Drag Chain Inst):	-25°C to +60°C
UL Cable Type:	AWM: 20549
Flammability Class (Cable Jacket):	DIN EN 60332-2-2, VDE 0482-332-2-2, IEC 60332-2-2, CSA FT-2; flame-retardant

# **Technical Data Side 2**

Product Sub Family, Side 2:	M23 Power
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Type of Contact / Gender, Side 2:	female
Connector Design, Side 2:	straight
Attachment Type, Side 2:	Coupling Nut
Number of Pins, Side 2:	12
Insulation Resistance, Side 2:	> 10^9 Ohm
Mating Cycles, Side 2:	≤ 100
Ambient Temperature (Operation), Side 2*:	-25°C to +80°C
Protection Degree / IP Rating, Side 2**:	IP67
Pollution Degree, Side 2:	3 acc. to DIN EN 60664-1 (VDE 0110-1)
Clearance / Creepage Distance, Side 2:	acc. to DIN EN 60664-1 (VDE 0110-1)
Overvoltage Category, Side 2:	II acc. to DIN EN 60664-1 (VDE 0110-1)
Contact Base Material, Side 2:	8 x CuSn/4 x CuZn
Contact Plating, Side 2:	Cu/Au
Contact Bearer Material, Side 2:	PA 66
Contact Bearer Color, Side 2:	black
Flammability Class (Contact Bearer), Side 2:	UL 94-HB
Molded Body Material, Side 2:	TPU
Molded Body Color, Side 2:	black
Flammability Class (Molded Body), Side 2:	UL 94-HB
Attachment Material, Side 2:	CuZn, nickel-plated
O-Ring Material, Side 2:	FKM
Note, Side 2:	Do not connect / disconnect under load.

## Safety & Environmental Compliance

RoHS Compliant:	yes	

#### Resistances

Halogenfree:	DIN EN 50267-2-1, IEC 60754-1, VDE 0482-267-2-1

#### **Notes**

Protection Degree / IP Rating Note:	** only if mounted and locked in combination with Hirschmann / Lumberg Automation connector.			
Note Derating:	* Notice derating			
Particularities:	When the connector is unlocked and in risk of pollution the connector has to be covered with a protective cap ≥ IP54.			

#### Variants

Item #	Item Description	Cable Length
61162	RSU 12-RKU 12-256/2 M	2 m
61160	RSU 12-RKU 12-256/5 M	5 m
65806	RSU 12-RKU 12-256/10 M	10 m
19148	RSU 12-RKU 12-256/15 M	15 m
65809	RSU 12-RKU 12-256/20 M	20 m

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