



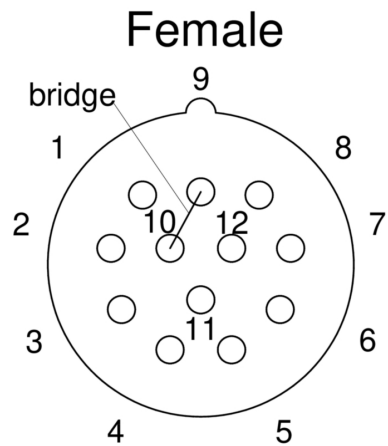
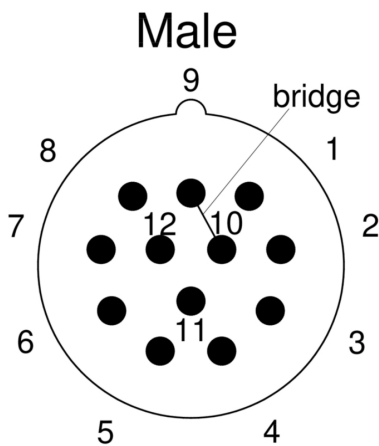
**Product:** [RSU 12-RKU 12-256](#)

M23 - Male 0° to Female 0° | #Contacts: 12 | 120 V | Cable: Black (PUR); 8x0.5 mm<sup>2</sup> + 3x1.0 mm<sup>2</sup>; IEC

### Product Description

M23 - Double-Ended Cordset: M23 - Male Straight | #Contacts: 12 | M23 - Female Straight | #Contacts: 12 | 120 V / 8 A | Black PUR Jacket, 8x0.5 mm<sup>2</sup> (20 AWG) + 3x1.0 mm<sup>2</sup> (17 AWG), IEC

### 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 Type:	Unshielded
Voltage Rating:	125 V
Rated Impulse Voltage:	1.5 kV
Operating Voltage:	120 V AC/DC
Current Rating:	8 A

## Technical Data Side 1

Side 1 Product Sub Family:	M23 Power
Side 1 Type of Contact/Gender:	Pin Contact / Male
Connector Design:	M23   Male   12 Pole   0°
Attachment Type:	Coupling Nut
Number of Pins:	12
Insulation Resistance:	> 10 <sup>9</sup> Ohm
Mating Cycles:	≤ 100
Cross Section:	8x0.5mm <sup>2</sup> + 3x1.0 mm <sup>2</sup>
Ambient Temperature (Operation)*:	- 25 °C to + 80 °C
Protection Degree / IP Rating**:	IP67
Side 1 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:	Brass (CuZn)
Side 1 Contact Plating:	Gold over Copper (Cu/Au)
Contact Bearer Material:	Polybutylene terephthalate (PBT)
Contact Bearer Color:	White
Flammability Class (Contact Bearer):	UL 94 V0
Molded Body Material:	Thermoplastic Polyurethane (TPU)
Molded Body Color:	Black
Flammability Class (Molded Body):	UL 94-HB
Attachment Material:	Brass (CuZn)
Attachment Plating:	Nickel (Ni)
O-Ring Material:	Nitrile Butadiene Rubber (NBR)
Note:	Do not connect / disconnect under load.

## Cable Data

Cable Number:	256
Conductor Size:	8x0.5mm <sup>2</sup> + 3x1.0 mm <sup>2</sup>
Number of Wires:	11
Minimal Bending Radius (Fixed Inst):	> 5 x D
Minimal Bending Radius (Flexible Inst):	> 10 x D
Cycles (Bending):	> 2 M
Conductor Material:	Cu
Cable Jacket Material:	Polyurethane (PUR)
Cable Jacket Color:	Black
Cable Diameter D:	Ø 9.30
Wire Insulation Material:	Polypropylene (PP)
Insulated Wire Diameter:	8 x Ø 1.45 mm [0.057"] + 3 x Ø 1.95 mm [0.077"]
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
Cable Characteristics:	Flexibility: Excellent   Abrasion Resistance: Excellent   Oil & Chemical Resistance: Excellent   UV Resistance: Excellent   Low Temp Performance: Excellent (flexible to -40°C)   Flame Retardance: Good   Halogen-Free: Yes   Mechanical Durability: Excellent (resists impact, tear, and flex)   Drag Chain   Environmental Suitability: Outdoor, oily, wet, or rough environments

## Technical Data Side 2

Side 2 Product Sub Family:	M23 Power
Side 2 Type of Contact/Gender:	Socket Contact / Female
Connector Design, Side 2:	M23   Female   12 Pole   0°
Attachment Type, Side 2:	Coupling Nut
Number of Pins, Side 2:	12
Insulation Resistance, Side 2:	> 10 <sup>9</sup> Ohm
Mating Cycles, Side 2:	≤ 100
Conductor Cross Section, Side 2:	8x0.5mm <sup>2</sup> + 3x1.0 mm <sup>2</sup>
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:	Brass (CuZn)
Contact Plating, Side 2:	Gold over Copper (Cu/Au)
Contact Bearer Material, Side 2:	Polyamide (Nylon), PA 6.6
Contact Bearer Color, Side 2:	Black
Flammability Class (Contact Bearer), Side 2:	UL 94-HB
Molded Body Material, Side 2:	Thermoplastic Polyurethane (TPU)
Molded Body Color, Side 2:	Black
Flammability Class (Molded Body), Side 2:	UL 94-HB
Attachment Material, Side 2:	Brass (CuZn)
Attachment Plating, Side 2:	Nickel (Ni)
O-Ring Material, Side 2:	Fluorocarbon rubber (FKM)
Note, Side 2:	Do not connect / disconnect under load.

## Safety & Environmental Compliance

RoHS Compliant:	Yes
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## Resistances

Halogenfree:	Yes
Oil Resistance:	Yes

## Notes

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 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
71169	RSU 12-RKU 12-256/25 M	

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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