



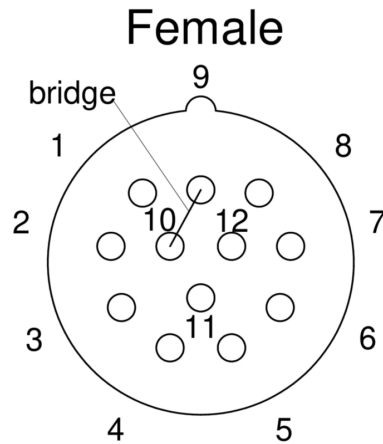
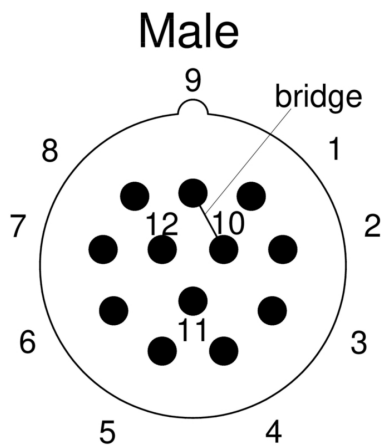
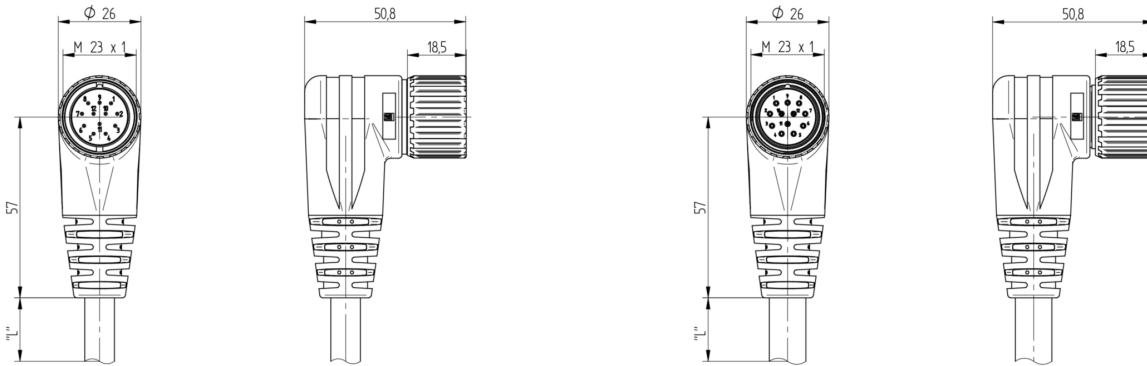
**Product:** [RSWU 12-RKWU 12-S4741](#)

M23-M23 - Male 90° to Female 90° | #Contacts: 12 | 120 V | Cable: Yellow (TPE); 8x0.5 mm<sup>2</sup> + 3x1.0 mm<sup>2</sup>; IEC

**Product Description**

M23 - Male Angled Cordset | #Contacts: 12 | M23 - Female Angled Cordset | #Contacts: 12 | 120 V / 8 A | Yellow TPE 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:     | 110 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   90°               |
| Attachment Type:                     | Female Thread (coupling nut)            |
| Number of Pins:                      | 12                                      |
| Insulation Resistance:               | > 10^9 Ohm                              |
| Mating Cycles:                       | ≤ 100                                   |
| Cross Section:                       | 8x0.5mm² + 3x1.0 mm²                    |
| 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:               | 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:                   | Yellow                                  |
| Flammability Class (Molded Body):    | UL 94-HB                                |
| Attachment Material:                 | Brass (CuZn)                            |
| Attachment Plating:                  | Nickel (Ni)                             |
| O-Ring Material:                     | Nitrile Butadiene Rubber (NBR)          |
| Gasket Material:                     | Nitrile Butadiene Rubber (NBR)          |
| Note:                                | Do not connect / disconnect under load. |

Cable Data

|                                         |                                                 |
|-----------------------------------------|-------------------------------------------------|
| Cable Number:                           | S4741                                           |
| Conductor Size:                         | 8x0.5mm² + 3x1.0 mm²                            |
| 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:                  | Thermoplastic elastomers (TPE)                  |
| Cable Jacket Color:                     | Yellow                                          |
| Cable Diameter D:                       | Ø 10.00 [0.39]"                                 |
| 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): | - 25 °C to + 80 °C (PLTC 75 °C)                                                                                                                                                                                                                                                                                                                                                      |
| Ambient Temperature (Flex Installation):  | - 5 °C to + 80 °C (PLTC 75 °C)                                                                                                                                                                                                                                                                                                                                                       |
| Ambient Temperature (Drag Chain Inst):    | - 25 °C to + 60 °C                                                                                                                                                                                                                                                                                                                                                                   |
| UL Cable Type:                            | PLTC                                                                                                                                                                                                                                                                                                                                                                                 |
| Flammability Class (Cable Jacket):        | DIN EN 60332-1-2, VDE 0482-332-2-2, IEC 60332-1-2, UL 1685 vertical tray                                                                                                                                                                                                                                                                                                             |
| 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   90°             |
| Attachment Type, Side 2:                     | Female Thread (coupling nut)            |
| Number of Pins, Side 2:                      | 12                                      |
| Insulation Resistance, Side 2:               | > 10^9 Ohm                              |
| Mating Cycles, Side 2:                       | ≤ 100                                   |
| Conductor Cross Section, Side 2:             | 8x0.5mm² + 3x1.0 mm²                    |
| 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 66                |
| 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:                   | Yellow                                  |
| 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)               |
| Gasket Material, Side 2:                     | Fluorocarbon rubber (FKM)               |
| Note, Side 2:                                | Do not connect / disconnect under load. |

Safety & Environmental Compliance

|                 |     |
|-----------------|-----|
| REACH:          | Yes |
| RoHS Compliant: | Yes |

Resistances

|                 |     |
|-----------------|-----|
| Halogenfree:    | No  |
| 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. |
|------------------|-----------------------------------------------------------------------------------------------------------------------|

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