



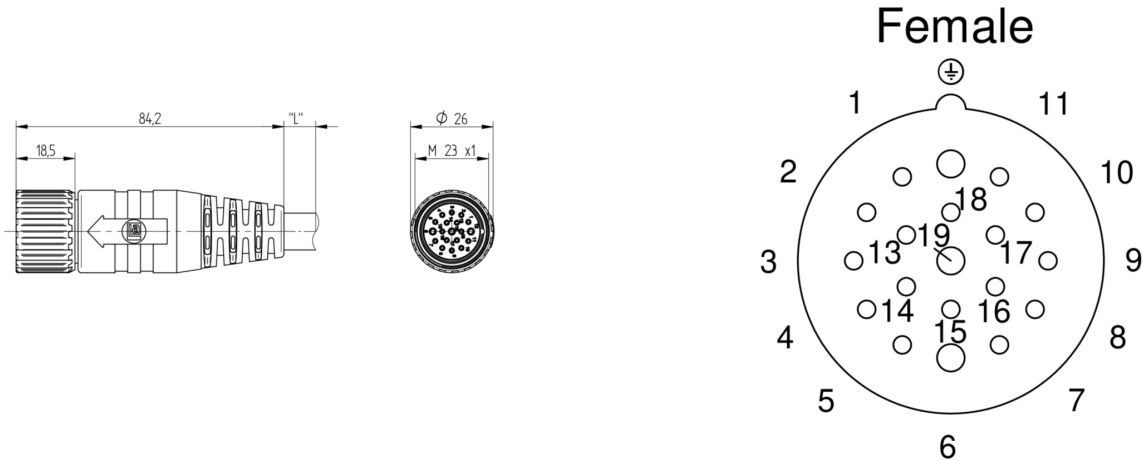
Product: [RKU 19-242](#)

M23 - Female 0° | #Contacts: 19 | 120 V | Cable: Black (PUR); 16x0.5 mm² + 3x1.0 mm²; IEC

Product Description

M23 - Singled-Ended Female Straight Cordset | #Contacts: 19 | 120 V / 16x8 A + 3x10 A | Black PUR Jacket, 16x0.5 mm² (20 AWG) + 3x1.0 mm² (17 AWG), IEC

Technical Drawing



Technical Specifications

Face View																		
Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9	Pin 10	Pin 11	Pin 12	Pin 13	Pin 14	Pin 15	Pin 16	Pin 17	Pin 18	Pin 19
violet	red	grey	red-blue	green	blue	grey-pink	white-green	white-yellow	white-grey	black	green-yellow	yellow-brown	brown-green	white	yellow	pink	grey-brown	brown

Technical Data

Product Family:	Power Connector
Side 1 Product Sub Family:	M23 Power
Brand:	Lumberg Automation
Connector Type:	Cordset, single ended
Side 1 Type of Contact/Gender:	Socket Contact / Female
Connector Design:	M23 Female 19 Pole 0°
Number of Pins:	19
Shielding Type:	Unshielded
Attachment Type:	Coupling Nut
Voltage Rating:	125 V
Rated Impulse Voltage:	1.5 kV
Operating Voltage:	120 V AC/DC
Current Rating:	16 x 8 A (pin-Ø 1 mm), 3 x 10 A (contact-Ø 1.5 mm)
Insulation Resistance:	> 10^9 Ohm
Mating Cycles:	≤ 100

Cross Section:	16x0.5mm² + 3x1.0 mm²
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)

Materials

Contact Base Material:	Copper Alloy (CuZn)
Side 1 Contact Plating:	Gold over Copper (Cu/Au)
Contact Bearer Material:	Polyamide (Nylon), PA 6.6
Contact Bearer Color:	Black
Flammability Class (Contact Bearer):	UL 94-HB
Molded Body Material:	Thermoplastic Polyurethane (TPU)
Molded Body Color:	Black
Flammability Class (Molded Body):	UL 94-HB
Housing Plating:	Nickel (Ni)
Housing Color:	Silver
Attachment Material:	Brass (CuZn)
Attachment Plating:	Nickel (Ni)
O-Ring Material:	Fluorocarbon rubber (FKM)

Additional Technical Data

Fastening Torque (Attachment):	M23: (50-60) Ncm, hand-tight
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Cable Data

Cable Number:	242
Conductor Size:	16x0.5mm² + 3x1.0 mm²
Number of Wires:	19
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 11.60 .456"
Wire Insulation Material:	Polypropylene (PP)
Insulated Wire Diameter:	16 x Ø 1.45 mm + 3 x Ø 1.95 mm
Ambient Temperature (Fixed Installation):	- 50 °C to + 80 °C
Ambient Temperature (Flex Installation):	- 25 °C to + 80 °C
Ambient Temperature (Drag Chain Inst):	max. + 60 °C
UL Cable Type:	AWM: 21198 / 20549
Flammability Class (Cable Jacket):	IEC 60332-2, VDE 0482-265-2-2, EN 50265-2-2, FT2; 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

Safety & Environmental Compliance

RoHS Compliant:	Yes
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Resistances

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

Note Derating:	* Notice derating
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:	Do not connect / disconnect under load.
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
4924	RKU 19-242/2 M	
19656	RKU 19-242/3 M	
83972	RKU 19-242/1 M	1 m
60688	RKU 19-242/5 M	5 m
500002298	RKU 19-242/5 M	5 m
60684	RKU 19-242/10 M	10 m
500002315	RKU 19-242/10 M	10 m
60685	RKU 19-242/15 M	15 m
500002365	RKU 19-242/15 M	15 m
60686	RKU 19-242/20 M	20 m
500002533	RKU 19-242/20 M	20 m
61212	RKU 19-242/25 M	25 m
61215	RKU 19-242/30 M	30 m
61219	RKU 19-242/40 M	40 m
84529	RKU 19-242/50 M	50 m

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