



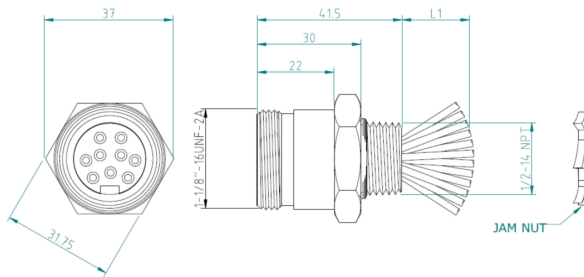
**Product:** [RKF 90M-623](#)

1-1/8 - Female 0° | #Contacts: 9 | 600 V | Wires, 16 AWG, US | cURus"

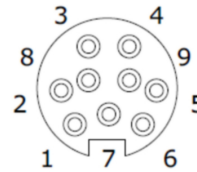
## Product Description

Receptacle | 1-1/8" - Female Straight | 1/2NPTF | #Contacts: 9 | 600 V / 7 A | Hookup Wires; 9x16 AWG; US | UL 2238; cURus

## Technical Drawing



FACE VIEW  
FEMALE



- 1 = OR
- 2 = BU
- 3 = RD/BK
- 4 = GN/BK
- 5 = WH
- 6 = RD
- 7 = GN
- 8 = WH/BK
- 9 = BK

US COLOR CODE

## Technical Specifications

### Face View

Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
orange	blue	red/black	green/black	white	red	green	white/black	black

### Technical Data

Product Family:	Power Connector
Side 1 Product Sub Family:	1-1/8" (9, 10, 12, 19 contacts)
Brand:	Lumberg Automation
Connector Type:	Receptacle
Connector Sub Type:	Receptacle; Female
Side 1 Type of Contact/Gender:	Socket Contact / Female
Connector Design:	1-1/8"   Female   9 Pole   Front Mount
Number of Pins:	9
Coding, Side 1:	A
Shielding Type:	Unshielded

Attachment Type:	Fixed, External Thread
Voltage Rating:	600 V
Rated Voltage (UL):	600 V
Operating Voltage:	540 V AC/DC
Current Rating:	7 A
Rated Current (UL)*:	Power 7 A   Signal 7 A
Contact Resistance:	≤ 10 mOhm
Insulation Resistance:	> 10 <sup>9</sup> Ohm
Mating Cycles:	≤ 100
Thread Size:	1/2" NPTF
Ambient Temperature (Operation)*:	- 40 °C to + 90 °C
Protection Degree / IP Rating**:	IP65, IP67
Pollution Degree:	3 acc. to DIN EN 60664-1 (VDE 0110-1)

### Materials

Contact Base Material:	CuZn
Side 1 Contact Plating:	Copper-Silver-Gold-Alloy (Cu/Ag/Au)
Contact Bearer Material:	TPU
Contact Bearer Color:	Yellow
Flammability Class (Contact Bearer):	UL 94 HB
Potted:	Yes
Housing Material:	Aluminum (Al)
Housing Plating:	Anodized with clear finish
Housing Color:	Silver
Threaded Ring Material:	Steel
O-Ring Material:	FKM, panel side
Attachment Type, Side 2:	1/2-14 NPT, Steel, Lock Nut
Gasket Material:	Fluoroelastomer (FKM)

### Additional Technical Data

Fastening Torque (Attachment):	1-1/8   70 Ncm, hand-tight"
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### Cable Data

Conductor Size:	16 AWG
Number of Wires:	9
Minimal Bending Radius (Fixed Inst):	> 5 x D
Minimal Bending Radius (Flexible Inst):	> 10 x D
Conductor Material:	Cu
Wire Insulation Material:	Polyvinyl Chloride (PVC)
Insulated Wire Diameter:	Ø 3.07 mm [ 0.120" ]
UL Cable Type:	UL: 1015/1230
Flammability Class (Cable Jacket):	VW-1

### Approvals

UL-File:	E315587
UL:	UL 2238; cURus

### Safety & Environmental Compliance

REACH:	Compliant
RoHS Compliant:	Yes

### Resistances

Halogenfree:	No
Oil Resistance:	Yes

### 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

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