



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

Life Cycle Status: Discontinued

Replaced by: [RS 901M-823](#)

Obsolete | Replaced by: RS 90M-823

## Product Description

Single-Ended Cordset | 1-1/8" - Male Straight | #Contacts: 9 | 600 V / 7 A | Cable: PVC Yellow; 9x16 AWG; US | UL 2238; cURus

## 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:	Cordset, single ended
Connector Sub Type:	Single-ended; Male Cordset
Side 1 Type of Contact/Gender:	Pin Contact / Male
Connector Design:	1-1/8"   Male   9 Pole   0°
Number of Pins:	9
Coding, Side 1:	A
Shielding Type:	Unshielded
Attachment Type:	Male Thread (coupling screw)
Replaced by:	PF_RS 90M-823
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
Side 1 Contact Resistance:	≤ 10 mOhm
Insulation Resistance:	> 10 <sup>9</sup> Ohm
Mating Cycles:	≤ 100
Ambient Temperature (Operation)*:	- 40 °C to + 90 °C
Protection Degree / IP Rating**:	IP65, IP67
Side 1 Pollution Degree:	3 acc. to DIN EN 60664-1 (VDE 0110-1)

### Materials

Contact Base Material:	Brass (CuZn)
Side 1 Contact Plating:	Copper-Silver-Gold-Alloy (Cu/Ag/Au)
Contact Bearer Material:	Thermoplastic polyurethane (TPU)
Contact Bearer Color:	Yellow
Flammability Class (Contact Bearer):	UL 94 HB

Molded Body Material:	Thermoplastic polyurethane (TPU)
Molded Body Color:	Yellow
Flammability Class (Molded Body):	UL 94 HB
Housing Color:	Yellow
Attachment Material:	Aluminum (Al)
Attachment Plating:	Anodized; Black

### Additional Technical Data

Fastening Torque (Attachment):	1-1/8"   70 Ncm, hand-tight
Mating Connectors / Fitting to:	RKF 90M-623

### Cable Data

Cable Number:	623
Conductor Size:	16 AWG
Number of Wires:	9
Minimal Bending Radius (Fixed Inst):	> 5 x D
Minimal Bending Radius (Flexible Inst):	> 10 x D
Cycles (Bending):	> 1 mio
Conductor Material:	Cu
Cable Jacket Material:	Polyvinyl Chloride (PVC)
Cable Jacket Color:	Yellow
Cable Diameter D:	Ø 16.76 mm [ 0.660" ]
Wire Insulation Material:	Polyvinyl Chloride (PVC)
Insulated Wire Diameter:	Ø 3.05 mm [ 0.120" ]
Ambient Temperature (Fixed Installation):	- 40 °C to + 105 °C
Ambient Temperature (Flex Installation):	- 15 °C to + 105 °C
UL Cable Type:	UL: STOW / CSA: AWM I/II A/B
Flammability Class (Cable Jacket):	FT1, VW-1
Cable Characteristics:	Flexibility: Good   Abrasion Resistance: Good   Chemical Resistance: resists water, oils, greases, acids, alkalis, and many solvents   Flame Retardance: Good   Halogen-Free: No   Mechanical Durability: Good (resists impact; tear; and flex)   Environmental Suitability: indoor / controlled environments

### Approvals

UL-File:	E315587
UL:	UL 2238; cURus

### Safety & Environmental Compliance

REACH:	Compliant
RoHS Compliant:	Yes

### Resistances

Halogenfree:	No
Oil Resistance:	Yes
UV 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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