



Product: [RS 90M-823](#)

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

1-1/8" - Male 0° | #Contacts: 9 | 600 V | Cable: Yellow (TPE); 16 AWG; US | cURus

Product Description

Single-Ended Cordset | 1-1/8" - Male Straight | #Contacts: 9 | 600 V / 7 A | Cable: TPE 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)
Replacement for:	PF_RS 90M-623
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 ⁹ Ohm
Mating Cycles:	≤ 100
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:	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:	823
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):	> 5 mio
Conductor Material:	Cu
Cable Jacket Material:	Thermoplastic Elastomers (TPE)
Cable Jacket Color:	Yellow
Cable Diameter D:	Ø 11.68 mm [0.460"]
Wire Insulation Material:	Polyvinyl Chloride (PVC)
Insulated Wire Diameter:	Ø 2.56 mm [0.101"]
Ambient Temperature (Fixed Installation):	- 30 °C to + 90 °C
Ambient Temperature (Flex Installation):	+ 5 °C to + 90 °C
UL Cable Type:	UL: NEC Type TC-ER (UL 1277)
Flammability Class (Cable Jacket):	UL 1685, CSA FT4, IEEC 1202
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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