



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

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

Product Description

Single-Ended Cordset | 1-1/8"- Female 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
Product Sub Family:	1-1/8" (9, 10 ,12, 19 contacts)
Brand:	Lumberg Automation
Connector Type:	Cordset, single ended
Type of Contact / Gender:	Socket Contact / Female
Connector Design:	1-1/8" Female 9 Pole 0°
Number of Pins:	9
Coding:	A
Shielding:	Unshielded
Attachment Type:	Female Thread (round coupling nut)
Rated Voltage:	600 V
Rated Current*:	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)
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
Attachment Material:	Aluminum (Al)
Attachment Plating:	Anodized Black

Additional Technical Data

Fastening Torque (Attachment):	1'-1/8": 70 Ncm, hand-tight
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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: Excellent Abrasion Resistance: Very Good Chemical Resistance: resists water, oils, greases, acids, alkalis, and solvents Flame Retardance: Good Halogen-Free: No Mechanical Durability: Good (resists impact, tear, and flex) Environmental Suitability: outdoor, oily, wet, or rough environments

Approvals

UL-File:	E315587
UL:	UL 2238; cURus

Safety & Environmental Compliance

RoHS Compliant:	Yes
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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

Variants

Item #	Item Description	Cable Length
540000577	RK 90M-823/2M	2 m
540000742	RK 90M-823/12.5M	12.5 m
540000689	RK 90M-823/4M	4 m
540000143	RK 90M-823/5M	5 m
540000144	RK 90M-823/6M	6 m
540000038	RK 90M-823/10M	10 m

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