



Product: [RK 90M-623](#)

Life Cycle Status: Discontinued

Replaced by: [RK 90M-823](#)

Obsolete | Replaced by: RK 90M-823

Product Description

Single-Ended Cordset | 1-1/8" - Female 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; Female Cordset
Side 1 Type of Contact/Gender:	Socket Contact / Female
Connector Design:	1-1/8" Female 9 Pole 0°
Number of Pins:	9
Coding, Side 1:	A
Shielding Type:	Unshielded
Attachment Type:	Female Thread (coupling nut)
Replaced by:	PF_RK 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
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:	RSF 90M-623
Accessories to Order Separately:	500000358 - RS-TU thread adaptor

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

Variants

Item #	Item Description	Cable Length
500000577	RK 90M-623/6F	6 ft
500000689	RK 90M-623/12F	12 ft
500000143	RK 90M-623/15F	15 ft

500000144	RK 90M-623/20F	20 ft
500000038	RK 90M-623/30F	30 ft
500000742	RK 90M-623/40F	40 ft

© 2025 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.