



Product: [RK 100M-652](#) 

Life Cycle Status: Obsolete

Replaced by: [RK 100M-752](#)

Obsolete | Replacement: RK 100M-752

Product Description

MINI 1-1/8" | Single-Ended Cordset | 1-1/8" Female Straight, #Contacts 10 → Open End | Cable: Yellow PUR; 0.75 mm² (18 AWG), 300 V / 7A

Technical Specifications

Face View

Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9	Pin 10
orange	blue	white/black	red/black	green/black	orange/black	red	green	black	white

Technical Data

Product Family:	Power Connector
Side 1 Product Sub Family:	MINI 1-1/8"
Brand:	Lumberg Automation
Connector Type:	Cordset, single ended
Side 1 Type of Contact/Gender:	Socket Contact / Female
Connector Design:	Molded 1-1/8" Female Straight
Number of Pins:	10 (9+PE)
Coding, Side 1:	A
Shielding Type:	Unshielded
Attachment Type:	Coupling Nut Female Thread
Rated Voltage (UL):	300 V
Operating Voltage:	300 V AC/DC
Current Rating:	7 A
Side 1 Contact Resistance:	≤ 10 mOhm
Insulation Resistance:	> 10 ⁹ Ohm
Mating Cycles:	≤ 100
Ambient Temperature (Operation)*:	- 40 °C to + 90°C
Protection Degree / IP Rating**:	IP67
Side 1 Pollution Degree:	3 acc. to DIN EN 60664-1 (VDE 0110-1)
Overvoltage Category:	III acc. to IEC 60664-1

Materials

Contact Base Material:	Copper Alloy (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
Attachment Material:	Aluminum (Al)
Attachment Plating:	Anodized Black

Additional Technical Data

Fastening Torque (Attachment):	MINI: 70 Ncm, hand-tight
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Cable Data

Cable Number:	652
Conductor Size:	18 AWG
Number of Wires:	10
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:	Polyurethane (PUR)
Cable Jacket Color:	Yellow
Cable Diameter D:	Ø 8.64 mm 0.340"
Wire Insulation Material:	Polyvinyl Chloride (PVC)
Insulated Wire Diameter:	Ø 1.73 mm 0.068"
Overall Shield (Cable):	Unshielded
Ambient Temperature (Fixed Installation):	- 40 °C to + 80 °C
Ambient Temperature (Flex Installation):	- 5° C to + 80° C
Ambient Temperature (Fixed Installation short-term 100h):	- 40 °C to + 80 °C
Ambient Temperature (Drag Chain Inst):	- 5° C to + 80° C
UL Cable Type:	AWM Style 20233
Flammability Class (Cable Jacket):	VW-1, FT1
Cable Characteristics:	See downloads tab for details

Approvals

UL-File:	E315587
UL:	UL 2238; cURus

Safety & Environmental Compliance

RoHS Compliant:	Yes
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Resistances

Halogenfree:	Yes
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
Note:	1. Do not connect or disconnect under load.

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