



Product: [RSRK 301-688](#) 

7/8" - Male 0° | #Contacts: 3 | 7/8" - Female 0° | #Contacts: 3 | 300 V | Cable: Yellow (PVC); 18 AWG; AUTO | cURus

Product Description

Double-Ended Cordset | 7/8"- Male Straight | #Contacts: 3 | 7/8"- Female Straight | #Contacts: 3 | 300 V / 8 A | Cable: PVC Yellow; 3x18 AWG; AUTO | UL 2238; cURus

Technical Specifications

Face View Side 1

Pin 1	Pin 2	Pin 3
green	red-black	red-white

Face View Side 2

Pin 1	Pin 2	Pin 3
green	red-black	red-white

Product Description

Brand:	Lumberg Automation
Connector Type:	Cordset, double ended
Shielding:	Unshielded
Rated Voltage:	300 V
Rated Current*:	8 A

Technical Data Side 1

Product Sub Family:	7/8" (2, 3, 4, 5, 6 contacts)
Type of Contact / Gender:	Pin Contact / Male
Connector Design:	7/8" Male 3 Pole 0°
Attachment Type:	Female Thread (round coupling nut)
Number of Pins:	3
Coding:	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)
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
Fastening Torque (Attachment):	7/8": 70 Ncm, hand-tight

Cable Data

Cable Number:	688
Conductor Size:	18 AWG
Number of Wires:	3
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 7.4 mm (.290")
Wire Insulation Material:	Polyvinyl Chloride (PVC)
Insulated Wire Diameter:	Ø 1.65 mm [0.065"]
Ambient Temperature (Fixed Installation):	- 40 °C to +105 °C
Ambient Temperature (Flex Installation):	- 15 °C to +105 °C
UL Cable Type:	UL: AWM 2661 / CSA: AWM I/II A/B
Flammability Class (Cable Jacket):	UL VW-1 / CSA FT-1
Cable Characteristics:	Flexibility: Good Abrasion Resistance: Good Chemical Resistance: resists water, oil, acids, and alkalis Flame Retardance: Good Halogen-Free: No Mechanical Durability: Good (resists impact, tear, and flex) Environmental Suitability: Indoor, excellent balance of performance, cost, and versatility

Technical Data Side 2

Product Sub Family, Side 2:	7/8" (2, 3, 4, 5, 6 contacts)
Type of Contact / Gender, Side 2:	Socket Contact / Female
Connector Design, Side 2:	7/8" Female 3 Pole 0°
Attachment Type, Side 2:	Female Thread (round coupling nut)
Number of Pins, Side 2:	3
Coding, Side 2:	A
Contact Resistance, Side 2:	≤ 10 mOhm
Insulation Resistance, Side 2:	> 10^9 Ohm
Mating Cycles, Side 2:	≤ 100
Ambient Temperature (Operation), Side 2°:	- 40 °C to + 90°C
Protection Degree / IP Rating, Side 2**:	IP65, IP67
Pollution Degree, Side 2:	3 acc. to DIN EN 60664-1 (VDE 0110-1)
Contact Base Material, Side 2:	Brass (CuZn)
Contact Plating, Side 2:	Copper-Silver-Gold-Alloy (Cu/Ag/Au)
Contact Bearer Material, Side 2:	Thermoplastic polyurethane (TPU)
Contact Bearer Color, Side 2:	Yellow
Flammability Class (Contact Bearer), Side 2:	UL 94 HB
Molded Body Material, Side 2:	Thermoplastic polyurethane (TPU)
Molded Body Color, Side 2:	Yellow
Flammability Class (Molded Body), Side 2:	UL 94 HB
Attachment Material, Side 2:	Aluminum (Al)
Attachment Plating, Side 2:	Anodized Black
Fastening Torque (Attachment), Side 2:	7/8": 70 Ncm, hand-tight
Note, Side 2:	Do not connect / disconnect under load.

Approvals

UL-File:	E315587
UL:	UL 2238; cURus

Safety & Environmental Compliance

RoHS Compliant:	Yes
-----------------	-----

Resistances

Halogenfree:	No
Oil Resistance:	Yes

Notes

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 Derating:	* Notice derating

Variants

Item #	Item Description	Cable Length
500000270	"RSRK 301-688/3F"	3 ft
500000271	RSRK 301-688/6F	6 ft
500000269	RSRK 301-688/12F	12 ft
500000937	"RSRK 301-688/15F"	15 ft
500000938	"RSRK 301-688/20F"	20 ft
500000939	"RSRK 301-688/25F"	25 ft
500000940	"RSRK 301-688/30F"	30 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.