

PRODUCT SPECIFICATION

INDUSTRIAL SEALED USB A&B PLUGS AND RECEPTACLES

1.0 SCOPE

This Product Specification covers the Sealed Industrial USB A&B Plug and Receptacle Connector Series.

2.0 PRODUCT DESCRIPTION

2.1	INDUSTRIAL USB A SHIELDED PLUG W/PIGTAIL	84727
2.2	INDUSTRIAL USB B SHIELDED PLUG W/PIGTAIL	84728
2.3	INDUSTRIAL USB A REC, PANEL MT W/USB A PLUG CORD	84729
2.4	INDUSTRIAL USB A REC, PANEL MT W/PC TAILS	84729
2.5	INDUSTRIAL USB A REC, PANEL MT W/LEADS	84729
2.6	INDUSTRIAL USB B SHIELDED REC, PANEL MT W/PC TAILS	84730
2.7	INDUSTRIAL USB A&B SHIELDED DUAL ENDED CABLE	84732

 3.0 APPLICABLE DOCUMENTS AND SPECIFICATIONS

 A. IEC IP67
 84727, 84728, 84729, 84730, 84732

4.0 RATINGS

- 4.1 VOLTAGE 30 Volts AC (RMS)
- 4.2 CURRENT 1.0 AMP
- 4.3 TEMPERATURE Operating: - 40°C to + 80°C

5.0 PERFORMANCE

ITEM	DESCRIPTION	TEST CONDITION		REQUIREMENT		
1	Insulation Resistance	Voltage of 100 VDC between adjacent Milling terminals and between terminals to ground. Milling Unmated connectors: apply a voltage of 100 Milling		100 Megohms MINIMUM No breakdown		
	Dielectric Withstanding Voltage					
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UMENT NUMBER:		CREATED / REVISED BY:	CHECKED BY	<u>/:</u>	APPROV	ED BY:
PS-	-84727-002	G. GUSTAFSON	B. RUPERT		B. WOO	DMAN

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5.2 MECHANICAL REQUIREMENTS ITEM **TEST CONDITION** DESCRIPTION REQUIREMENT 35 N (3.57 kgf) MAXIMUM mating force Mate and un-mate USB connector (Male to **USB** Connector mate 1 Female) at a rate of 12.5mm (.50 in.) per and un-mate forces 10 N (1.02 kgf) minute MINUMUM un-mating force Mate connector up to 200 cycles at a Tactile feedback must be 2 **Bayonet Durability** maximum rate of 10 cycles per minute maintained Mate and Un-mate connectors 500 cycles at a 3 **Connector Durability** No physical damage rate of 200 cycles per hour Mate coupling ring to receptacle with 20 lb in. No damage occurs to 4 **Torque withstand** Torque (max) coupling ring or receptacle

6.0 ENVIRONMENTAL REQUIREMENTS 6.1 SEAL RATING; IP67 6.2 RoHS Compliant: Yes

7.0 PACKAGING

Parts shall be packaged to protect against damage during handling, transit and storage.

8.0 PHYSICAL ATTRIBUTES

8.1 HOUSING MATERIAL: THERMOPLASTIC PBT, BLACK, UL94V-0

- 8.2 OVERMOLD MATERIAL: TPC, BLACK
- 8.3 CONTACT MATERIAL: COPPER ALLOY
- 8.4 CONTACT PLATING: .000030" MIN. GOLD IN CONTACT AREA, .000100" MIN. TIN IN PC TAIL AREA OVER .000050" MIN. NICKEL OVERALL
- 8.5 GASKET SEAL MATERIAL: NITRILE, BLACK
- 8.6 COUPLING RING MATERIAL: THERMOPLASTIC PBT, BLACK
- 8.7 LOCKNUT MATERIAL: THERMOPLASTIC PBT, BLACK
 - 8.7.1 RECOMMENDED TORQUE: 24 LBF-IN ±4 LB IN

8.7.2 RECOMMENDED PANEL THICKNESS: .10 IN MAX

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