



SERIES 80

# Mighty Mouse Connectors with SpeedMaster™ 10G high-speed contacts



## Series 824 Product Specifications And Summary

**Performance Specification, IAW MIL-DTL-32546, TIA-568-C.2, EIA-364, Glenair Mighty Mouse 824, & Glenair SpeedMaster**

Test	Test Requirement	Requirement Met	
	Individual contact modules meet the performance requirements of TIA-568-C.2:		
High-speed Performance*	<ul style="list-style-type: none"> <li>• Return Loss</li> <li>• Insertion Loss</li> <li>• NEXT</li> <li>• PS NEXT</li> </ul>	<ul style="list-style-type: none"> <li>• ACR-F</li> <li>• PS ACR-F</li> <li>• ACR-N</li> </ul>	Meets TIA-568-C.2, section 6.2
Temperature Cycling†	-65°C to +150°C		
Durability‡	No electrical or mechanical defects after 500 cycles of engagement and disengagement	Meets MIL-DTL-32546, paragraph 3.11	
Insulation Resistance at Ambient Temperature*	Unmated connectors shall be tested as specified in EIA-364-21 5000 megaohms min. at 25°C	Meets MIL-DTL-32546, paragraph 3.13.1	
Insulation Resistance at Elevated Temperature*	Unmated connectors shall be tested as specified in EIA-364-21 1000 megaohms min. at 150°C		
Salt Spray‡	<b>Finish</b>	<b>Corrosion Resistance</b>	MIL-DTL-32546, paragraph 3.16 Finish ME: Meets Finishes MT & ZNU: Exceeds
	Electroless Nickel (ME)	48 hrs	
	PTFE/Nickel (MT)	500 hrs	
	Black Zinc-Nickel (ZNU)	500 hrs	
Vibration, Sine	No discontinuity greater than 1 microsecond, no cracking, breaking, or loosening of parts, plug shall not become disengaged from the receptacle. Connectors shall meet electrical requirements after test. 16.91 G's		
Vibration, Random at Ambient Temperature‡	No discontinuity greater than 1 microsecond, no cracking, breaking, or loosening of parts, plug shall not become disengaged from the receptacle. Connectors shall meet electrical requirements after test. 16.91 G's rms		Meets EIA-364-28, Condition V, Letter E
Standard Shock‡	No loosening of parts, cracking, or other deleterious results hindering further part operation after 100 G's in each of 3 mutually perpendicular planes		Meets EIA-364-27, Condition C
Shell-to-Shell Conductivity‡	<b>Finish</b>	<b>Maximum Millivolt Drop</b>	Exceeds MIL-DTL-32546, paragraph 3.23
	PTFE/Nickel (MT)	2.5 mV	
Humidity‡	Testing shall be performed as specified in EIA-364-21, Method IV		Meets MIL-DTL-32546, paragraph 3.25



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Test	Test Requirement						Requirement Met
Shielding Effectiveness‡	Leakage Attenuation Min (dB)			Leakage Attenuation Min (dB)			Meets MIL-DTL-32546, paragraph 3.27
	Frequency (MHz)	Finish ME	Finishes MT, ZNU	Frequency (MHz)	Finish ME	Finishes MT, ZNU	
	100	90	90	1,500	76	69	
	200	88	88	2,000	70	65	
	300	88	88	3,000	69	61	
	400	87	87	4,000	68	58	
	800	85	85	6,000	66	55	
1,000	85	85	10,000	65	50		
Fluid Immersion	No visible damage from immersion in various fuels and oils. Electrical performance requirements shall still be met.						

\* Indicates that test has been performed/data is available

† Thermal cycling has been done from -55°C to +200°C

‡ Qualification by similarity

### SERIES 824 MIGHTY MOUSE SPEEDMASTER MATERIAL

- Shell, Barrel, Coupling Nut: Aluminum per ASTM-B211.
- Latch sleeve: BeCu Alloy/electroless nickel
- O-rings: fluorosilicone / N.A.
- Canted coil spring: copper alloy/gold