

Contact Specifications and Summary

Performance Specification, IAW MIL-DTL-32546, MIL-DTL-38999 Series III Rev. M, TIA-568-C.2, and Glenair SpeedMaster™																																							
Test	Test Requirement				Requirement Met																																		
High-speed Performance	Individual contact modules meet the performance requirements of TIA-568-C.2: • Return Loss • Insertion Loss • NEXT • PS NEXT • ACR-F • PS ACR-F • ACR-N				Meets TIA-568-C.2, section 6.2																																		
Temperature Shock	Mated connectors shall be tested as specified in EIA-364-32, Method A, Condition VI -65°C to +200°C				Exceeds MIL-DTL-32546, paragraph 3.8																																		
Mating/Unmating Forces	<table><tr><th rowspan="2">Shell Size</th><th colspan="2">Maximum Engagement & Disengagement</th><th colspan="2">Minimum Disengagement</th></tr><tr><th>Pound inch</th><th>Newton meters</th><th>Pound inch</th><th>Newton meters</th></tr><tr><td>11</td><td>12</td><td>1.4</td><td>2</td><td>0.2</td></tr><tr><td>17</td><td>24</td><td>2.7</td><td>3</td><td>0.3</td></tr><tr><td>19</td><td>28</td><td>3.2</td><td>3</td><td>0.3</td></tr><tr><td>21</td><td>32</td><td>3.6</td><td>5</td><td>0.6</td></tr><tr><td>25</td><td>40</td><td>4.6</td><td>5</td><td>0.6</td></tr></table>				Shell Size	Maximum Engagement & Disengagement		Minimum Disengagement		Pound inch	Newton meters	Pound inch	Newton meters	11	12	1.4	2	0.2	17	24	2.7	3	0.3	19	28	3.2	3	0.3	21	32	3.6	5	0.6	25	40	4.6	5	0.6	Meets MIL-DTL-38999, paragraph 3.11
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Durability	No electrical or mechanical defects after 500 cycles of engagement and disengagement				Meets MIL-DTL-32546, paragraph 3.11																																		
Altitude Immersion	Mated connectors shall be tested as specified in EIA-364-03 75,000 ft equivalent				Meets MIL-DTL-32546, paragraph 3.12 at SpeedMaster DWV rating																																		
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 200°C				Exceeds MIL-DTL-32546, paragraph 3.13.2																																		
Dielectric Withstanding Voltage	Sea Level: 700 VAC 50,000 ft: 450 VAC 70,000 ft: 300 VAC																																						

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Test	Test Requirement					Requirement Met	
Salt Spray	Finish		Corrosion Resistance			MIL-DTL-32546, paragraph 3.16	
	Electroless Nickel (ME)		48 hrs				
	PTFE/Nickel (MT)		500 hrs				
	OD Cadmium (NF)		500 hrs				
	Black Zinc-Nickel (ZR)		500 hrs				
Vibration, Sine	60g					Meets MIL-DTL-32546, paragraph 3.21	
Vibration: Random	49g rms					Meets MIL-DTL-32546, paragraph 3.21	
Standard Shock	No loosening of parts, cracking, or other deleterious results hindering further part operation after 300 G's in each of 3 mutually perpendicular planes					Meets MIL-DTL-32546, paragraph 3.22	
High Impact Shock	Mated connectors shall withstand high impact shock per MIL-S-901, lightweight, Grade A					Meets MIL-DTL-32546, paragraph 3.22	
Shell-to-Shell Conductivity	Finish		Maximum Millivolt Drop			Meets MIL-DTL-32546, paragraph 3.23	
	Electroless Nickel (ME)		1.0 mv				
	PTFE/Nickel (MT)		2.5 mv				
	OD Cadmium (NF)		2.5 mv				
	Black Zinc-Nickel (ZR)		2.5 mv				
Humidity	240 hours					Meets MIL-DTL-32546, paragraph 3.25	
Shielding Effectiveness	Frequency (MHz)	Leakage Attenuation Min (dB)		Frequency (MHz)	Leakage Attenuation Min (dB)		Meets MIL-DTL-32546, paragraph 3.27
		Finish ME	Finishes MT, NF, ZR		Finish ME	Finishes MT, NF, ZR	
	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	