

SERIES 23 38999 type connectors with SpeedMaster™ 10G high-speed contacts

Product Specifications and Summary

Test			Test Requirement			ilenair SpeedMaster™ Requirement Met						
High-speed Performance*	Individual conta • Return Loss • ACR-F	Meets TIA-568-C.2, section 6.2										
Temperature Cycling†	Mated con											
		sengagement										
	Shell Size	Pound inch	Newton meters	Pound inch	Newton meters	Meets MIL-DTL-38999, paragraph 3.11						
Mating/Unmating Forces	11*	12	1.4	2	0.2							
5 5	19‡	28	3.2	3	0.3							
	21‡	32	3.6	5	0.6							
	25*	40	4.6	5	0.6							
Durability*	No electrica	No electrical or mechanical defects after 500 cycles of engagement and disengagement										
Altitude Immersion	disengagement paragraph 3.11 Mated connectors shall be tested as specified in EIA-364-03 75,000 ft equivalent											
Insulation Resistance at Ambient Temperature*	Unmat	Meets MIL-DTL-32546, paragraph 3.13.1										
Insulation Resistance at Elevated Temperature*	Unmat											
Salt Spray‡	1000 megaohms n			Corrosion Res	MIL-DTL-32546, paragraph 3.16							
	Electro		48 hrs	Finish ME: Meets Finishes MT, NF, & ZR: Exceeds								
	PTF		500 hrs									
	OD C		500 hrs									
	Black	Zinc-Nickel (ZR)		500 hrs								
Vibration, Sine	loosening of	breaking, or he receptacle. test.										
Vibration, Random at Ambient Temperature*	No discont loosening of Con	Meets MIL-DTL-32546, paragraph 3.21										
Standard Shock*	No loosening of part operat	Meets MIL-DTL-32546, paragraph 3.22										
High Impact Shock	Mated connec shall withs											
Shell-to-Shell Conductivity‡			Maximum Milliv									
	Electro	less Nickel (ME)		1.0 mv	Exceeds MIL-DTL-32546 paragraph 3.23							
	PTFI	E/Nickel (MT)		2.5 mv								
	OD C	Cadmium (NF)		2.5 mv								
					Black Zinc-Nickel (ZR) 2.5 mv							



SERIES 23 38999 type connectors with SpeedMaster™ 10G high-speed contacts

Product Specifications and Summary

Performance Specification, IAW MIL-DTL-32546, MIL-DTL-38999 Series III Rev. M, TIA-568-C.2, and Glenair SpeedMaster™											
Humidity*	Testi	ng shall be pe	Meets MIL-DTL-32546, paragraph 3.25								
Shielding Effectiveness‡		Leakage Attenuation Min (dB)				Leakage Attenuation Min (dB)					
	Frequency (MHz)	Finish ME	Finishes MT, NF, ZR		Frequency (MHz)	Finish ME	Finishes MT, NF, ZR				
	100	90	90		1,500	76	69	Meets MIL-DTL-32546, paragraph 3.27			
	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

38999 SPEEDMASTER SUMMARY

Standard Material and Finishes

- Shell, Barrel, Coupling Nut, Jam Nut: Aluminum alloy per ASTM-B211.
- Grounding spring: BeCu alloy/electroless nickel finish
- Seals, O-Ring: Fluorosilicone Blend

Shell Type and Sizes

• Shell Type: D38999 Series III Type, sizes 11, 19, 21, 25