# Glenair.

SuperNine<sup>®</sup> High-Speed Series MIL-DTL-38999 Series III Type Environmental Connectors

**Performance Specifications** 

Test			Test Requirement			Glenair SpeedMaster™	
Test		Requirement Met					
ligh-speed Performance*	Individual conta • Return Loss • ACR-F	Meets TIA-568-C.2, section 6.2					
Temperature Cycling†	Mated conr						
Mating/Unmating Forces	Maximum Engagement & Disengagement			Minimum Di	sengagement		
	Shell Size	Pound inch	Newton meters	Pound inch	Newton meters		
	11*	12	1.4	2	0.2	Meets MIL-DTL-38999 paragraph 3.11	
	19‡	28	3.2	3	0.3		
	21‡	32	3.6	5	0.6		
	25*	40	4.6	5	0.6	I	
Durability*	No electrica	Meets MIL-DTL-32546, paragraph 3.11					
Altitude Immersion	Mateo	· · · ·					
Insulation Resistance at Ambient Temperature*	Unmate	Meets MIL-DTL-32546, paragraph 3.13.1					
Insulation Resistance at Elevated Temperature*	Unmate						
Salt Spray‡	Finish			Corrosion Res	MIL-DTL-32546, paragraph 3.16		
	Electro		48 hrs	Finish ME: Meets Finishes MT, NF, & ZR: Exceeds			
	PTF		500 hrs				
	OD C Black Z		500 hrs 500 hrs				
	No disconti loosening of						
Vibration, Sine	Con						
Vibration, Random at Ambient Temperature*	No disconti loosening of Con	Meets MIL-DTL-32546, paragraph 3.21					
	CON						
Standard Shock*	No loosening o part operat	Meets MIL-DTL-32546, paragraph 3.22					
High Impact Shock	Mated connec shall withst	·					
			Maximum Milliv	Exceeds MIL-DTL-32546 paragraph 3.23			
	Electro		1.0 mv				
Shell-to-Shell Conductivity‡	PTFE		2.5 mv				
Conductivity+	OD C	OD Cadmium (NF) 2.5 mv				parayraph 5.25	
	Black Z						



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### **Performance Specifications**

Humidity*	Testi	Meets MIL-DTL-32546 paragraph 3.25					
Shielding Effectiveness‡		Leakage Attenuation Min (dB)		Frequency (MHz)	Leakage Attenuation Min (dB)		
	Frequency (MHz)	Finish Finishes ME MT, NF, ZR	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 visik	5	om immersior nance requiren			Electrical	

ualification 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