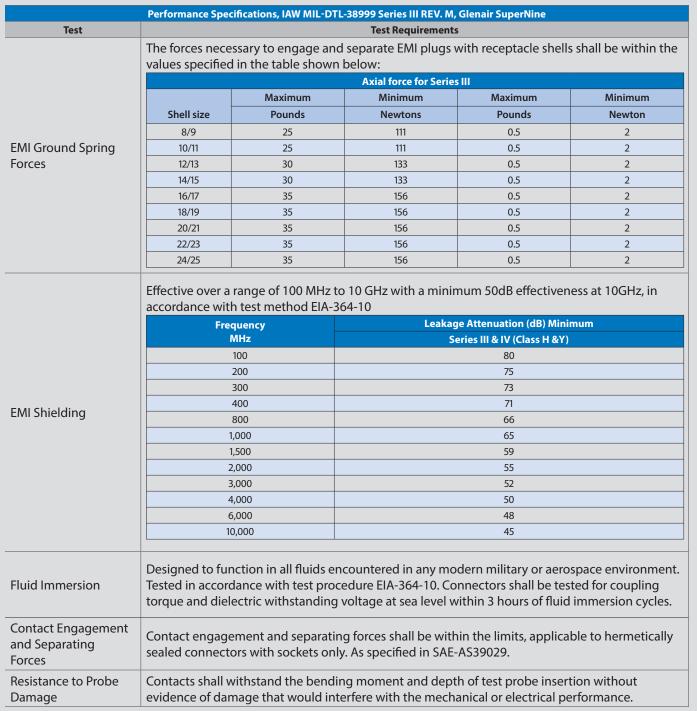
	Performance Specifie	cations, IAW	MIL-DTL-38999 9	Series III REV. M,	Glenair SuperNi	ne		
Test	Test Requirements							
Fungus	Materials used in the construction of these connectors shall be fungus inert per certification of method 508.4 of MIL-STD-810							
Contact Plating Thickness	Plating thickness of contacts used in hermetic connectors shall be in accordance with MIL- DTL-45204							
Supported Wire Size	Contact Size	23-22	22D	20	16	12	10	
	Wire Gauge	26, 24, 22	28, 26, 24, 22	24, 22, 20	20, 18, 16	14, 12	10	
Thermal Shock	Unmated receptacles shall be subjected to 10 cycles of thermal shock							
Air Leakage	When tested as specified, there shall be no evidence of leakage in excess of .01 micron ft^3/h (1E-7 cm ³ /s).							
	The coupling torque for mating and unmating of the counterpart connectors and protective covers shall meet the requirements of the table shown below. Coupling and Uncoupling Torque							
	Maximum Engagement and Disengagement Minimum Disengagement							
Coupling and	Shell Size		Pound inc			Pound inch		
	9		8			2		
Uncoupling Torque	11		12 16			2		
	15		20		3			
	17		24			3		
	19		28			3		
	21 23		32 36			5		
	25		40			5		
Durability	No electrical or m	echanical	defects after 50	0 cycles of er	igagement an	d disengagem	ent	
Insulation Resistance	At Ambient Temp contact and the sl immersion shall b megohms minimu At Elevated Temp in accordance wit	nell shall b e 1,000 me um. IAW EI perature L	e greater than egohms minim A-364-21. Jnmated conne	5,000 megohi um. Insulatior ectors shall be	ms. Insulation n resistance af	resistance afte ter humidity sl	er altitude nall be 100	





	Performance Spec	ifications, IA	W MIL-DTL-3	8999 Series III I	REV. M, Gle	enair SuperNin	e			
Test	Test Requirements									
	When tested as specified, the maximum leakage current shall be 2 milliamperes, and there shall be no evidence of electric breakdown or flashover. The magnitude of the test voltage shall be as specified below (see MIL-STD-1560 for service rating of insert arrangement)									
Dielectric	Test Voltages, AC RMS, 60 Hz									
Withstanding Voltage	Altitude	Servi	e Rating M Service R				ing I	Service Rating II		
Withstanding Voltage	Sea level		1300		1000			2300		
	50,000 feet	550		400		600		800		
	70,000 feet		350		260			500		
	100,000 feet		200	200		200		200		
Insert Retention Salt Spray (Corrosion)	no evidence of a to 100 psi with a When tested in	cracking, br a 25 psi min accordance	eaking, sep imum force with EIA-36	aration from 54-26, meets	the shell,	or loosening ate electrical	of parts and me	nd there shall be when subjected chanical		
Sur Spray (conosion)	requirements ar	nd shows no	o exposure	of base meta	after 500) hours of sa	lt spray			
	Contacts in the mated condition shall meet the contact resistance requirements of the table shown below. Appropriate compensation may be made for resistance in the measured value which is due to an additional length of wire included in the measurement.									
	Class	Contact Size	Wire Size	Test Amperes		Millivolt Drop Maximum Initial After Conditioning				
Contact Resistance at		12	12	17	•	85	Alto	100		
25° C	H, N and Y	12	12	10		85		100		
				5		60				
		20	20					75		
		22D	22	3		85		95		
		23-22	22	3		85		95		
Contact Retention	The axial displa No damage to o				eed .012	inch (0.30 m	וm).			
Vibration	There shall be r connectors, bac of parts.							of the mated king, or loosening		
Shock	evidence of crac Standard shock and any addition High-impact sh	king, breaki (all series). nal details n o ck. Applic ance with N bundle shal SAE-AS850	ing, or loose Connectors oted. able to serie 11L-S-901, gr 1 be provide 049, the long	ning of parts shall be teste es I, III and IV c ade A and in a d with a straig gest length av	ed in acco only. Wire accordanc ght, envir	rdance with d and mated ce with any n onmental, ba	test proc connect nodificat ackshell, o	ions or additions category 2B in		



lenair.



MIL-DTL-38999 Contact Materials and Specifications				
Component	Material	Notes		
Pin Contact, Hermetic	Nickel-iron alloy per ASTM F30 (Alloy 52),50 microinches gold plated per ASTM B488 Type II Code C Class 1,27 over nickel plate per QQ-N-290 Class 2, 50-100 microinches	Ferromagnetic material.		
Socket Contact	Beryllium copper alloy per ASTM B197, 50 microinches gold plated per ASTM B488 Type II Code C Class 1,27 over nickel plate per QQ-N-290 Class 2, 50-100 microinches.	Approved for Space Flight		
Socket Contact Hood	Stainless steel, passivated per AMS-QQ-P-35	Approved for Space Flight		

COAX, TWINAX AND QUADRAX CONTACT PERFORMANCE

Contact Performance				
Size and Type	Frequency			
16 Coax	up to - 500 Mhz			
12 Coax	up to - 2 GHz			
8 Coax	up to - 1 GHz			
8 Twinax (Conc.)	up to - 20 MHz			
8 Quadrax	up to - 1 GHz			

Contact performance varies and is dependent on wire type and contact selection. Due to the wide selection of wire and contact combinations available, Glenair recommends contacting the factory regarding your specific application and setup.