Series 806
Mighty Mouse Mil-Aero Connectors
Materials and Finishes, Performance Specification

Standard Materials and Finishes		
DESCRIPTION	MATERIAL	FINISH
Pin Contact	Copper alloy	50 microinches gold over nickel
Socket Contact	Copper alloy, with stainless steel hood	50 microinches gold over nickel Contact hood: passivate
Insulators	High grade rigid dielectric	None
Seals	Fluorosilicone/silicone blend, blue	None
EMI Spring	Beryllium copper	Nickel
Shell, Coupling Nut, Jam Nut	Aluminum alloy or stainless steel	See sales drawing or catalog for finish options
Contact Retention Clip	Beryllium copper	None
Anti-Decoupling Ratchet Spring	Stainless steel	Passivate

Performance Specification

TEST DESCRIPTION	REQUIREMENT	PROCEDURE
Dielectric withstanding voltage at sea level	Contact Size / Altitude / Voltage: 20HD – Sea level – 1800 22HD – Sea level – 1300	MIL-DTL-38999M para. 4.5.11.1 EIA-364-20 Method A 2 mA maximum leakage current Unmated pairs
Dielectric withstanding voltage at altitude	Contact Size / Altitude / Voltage: 20HD – 50,000 ft – 1000 70,000 ft – 1000 100,000 ft – 1000 22HD – 50,000 ft – 800 70,000 ft – 800 100,000 ft – 800	MIL-DTL-38999M para. 4.5.11.2 EIA-364-20 Method A 2 mA maximum leakage current Mated pairs
Insulation resistance at ambient temperature	5000 megohms minimum	MIL-DTL-38999M Para. 4.5.10.1 EIA-364-21
Insulation resistance at elevated temperature	1000 megohms minimum	MIL-DTL-38999M Para. 4.5.10.2 EIA-364-21
Contact resistance at 25°C, crimp contacts	Wire Size / Test Current Amperes / Maximum Voltage Drop (millivolts) Initial / After Conditioning: 20 – 7.5 – 55 – 66 22 – 5 – 73 – 88 24 – 3 – 45 – 54 26 – 2 – 52 – 63 28 – 1.5 – 54 – 65 30 – 1 – 60 – 73	AS39029C Para. 4.7.5 EIA-364-06 Silver-plated wire
Contact resistance at 200° C, crimp contacts	Wire Size / Test Current Amperes / Maximum Voltage Drop (millivolts): 20 – 7.5 – 94 22 – 5 – 125 24 – 3 – 77 26 – 2 – 89 28 – 1.5 – 92 30 – 1 – 103	AS39029C Para. 4.7.5 EIA-364-06 Silver-plated wire
Low level contact resistance, crimp contacts	Wire Size / Maximum Contact Resistance (milliohms) Initial Values / After Conditioning: 20 – 9 – 11 22 – 15 – 17 24 – 20 – 23 26 – 31 – 38 28 – 50 – 60 30 – 75 – 88	AS39029C Para. 4.7.4 EIA-364-23 Silver plated wire

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Dimensions in Inches (millimeters) are subject to change without notice.