

# SPECIFICATIONS

## GENERAL

Nominal Impedance	50Ω
Frequency Range	DC to 27GHz
Temperature Rating	-65° to +165°C
Voltage Rating, Dielectric Withstanding Voltage, Corona Level (@ 70,000 ft):	

<i>Pin Size</i>	.036	.020	.018	.015	.012	.009
@ Sea Level	1000 V(RMS)	1000 V(RMS)	850 V(RMS)	750 V(RMS)	650 V(RMS)	650 V(RMS)
@ 70,000 ft	250 V(RMS)	250 V(RMS)	200 V(RMS)	125 V(RMS)	95 V(RMS)	95 V(RMS)

## MECHANICAL

MIL-PRF-39012 Paragraph

Recommended Mating Torque	N/A	9.0 in-lbf
Force to Engage / Disengage	3.5.1	2.0 in-lbf Maximum
Coupling Nut Retention Force (Plug Connectors Only)	3.25	60 lbf Minimum
Coupling Nut Proof Torque (Plug Connectors Only)	3.6	15 in-lbf Maximum
Center Contact Retention	3.12	6.0 lbf Minimum
Connector Durability	3.15	500 Cycles Minimum

## Electrical


MIL-PRF-39012 Paragraph

Insulation Resistance	3.11	5,000 MΩ Minimum
Center Contact Resistance	3.16	3.0 mΩ Max. Initial 4.0 mΩ Max. After Environmental
Outer Contact Resistance	3.16	2.0 mΩ Maximum
Voltage Standing Wave Ratio (VSWR)	3.14	DC to 18GHz      1.10:1 Max 18GHz to 27GHz    1.15:1 Max
RF Leakage	3.26	-(120 - fGHz) dB Maximum
RF Insertion Loss	3.27	0.03√f(GHz) dB Maximum

## Environmental

MIL-PRF-39012 Paragraph

Vibration, High Frequency	3.18	Per MIL-STD-202, Method 204, Test Condition D
Shock	3.19	Per MIL-STD-202, Method 213, Test Condition I
Thermal Shock	3.20	Per MIL-STD-202, Method 107, Test Condition F
Corrosion (Salt Spray)	3.13	Per MIL-STD-202, Method 101, Test Condition B Solution = 5%
Moisture Resistance	3.21	Per MIL-STD-202, Method 106, omit 7b (vibration). Insulation resistance shall be at least 500 MΩ within 5 minutes after removal from humidity

Rev	A1	REVISED PER ECN 9068	Aprvd.	PLC	Date	8/1/12	Title: <b>Specification Sheet SMA Connectors</b>			
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							Sheet: 1 of 1			