N 18 GHz

CHARACTERISTICS

TEST / CHARACTERISTICS	VALUES / REMARKS	
ELECTRICAL CHARACTERISTICS		
Impedance	50Ω	
Frequency Range	DC - 18 GHz	
Typical V.S.W.R. **• Straight Connector** **• Right Angle Connector**	With SHF Cables 1.10 at 18 GHz 1.15 at 18 GHz	
Insertion Loss	< 0.1 √F (GHz) dB	
RF Leakage	- 90 dB (2 to 3 GHz)	
Insulation Resistance	5000 MΩ min	
Contact Resistance **• Outer Contact** **• Inner Contact**	After Environment Test 2 mΩ max N.A.	Initial 1.5 mΩ max 2 mΩ max
Peak Power (At Sea Level)	5000 W	
Average Power (At Sea Level, 25 °C)	2000 W at 0.1 GHz 600 W at 1 GHz 150 W at 10 GHz	
	.085" Semi-Rigid Cable	.141" Semi-Rigid Cable
Dielectric Withstanding Voltage **• At Sea Level** **• At 70000 feet**	1000 Vrms 250 Vrms	1500 Vrms 375 Vrms
Voltage Rating **• At Sea Level** **• At 70000 feet**	335 Vrms 85 Vrms	500 Vrms 125 Vrms
RF High Potential Withstanding Voltage	670 Vrms	1000 Vrms
Corona Level	250 Vrms	375 Vrms
MECHANICAL CHARACTERISTICS		
Durability	500 Matings	
Cable Retention Force	136 N (31 lbf)	272 N (61 lbf)
Recommended Coupling Torque	160 Ncm (14 lbf.in)	
Contact Captivation	27 Ncm (6 lbf) min	
ENVIRONMENTAL CHARACTERISTICS		
Temperature Range	Standard Connectors - 65 °C + 165 °C	Connectors for Semi-Rigid Cable - 40 °C + 125 °C
Vibration	MIL-STD-1344 Method 2005 Condition 4	
Shock	MIL-STD-1344 Method 2004 Condition G	
Thermal Shock	MIL-STD-1344 Method 1003 Condition A	
Corrosion (Salt Mist)	MIL-STD-1344 Method 1001 Condition B	
High Temperature Test	CECC 22000/4.7.2	
Damp Heat	CECC 22000/4.6.6	
Low Pressure Immersion	EN2591 AECMA TestC14	
Resistance to Fluids Contamination	EN2591 AECMA TestC15	
MATERIALS		
Body	Stainless Steel	
Center Contact	Beryllium Copper and Brass	
Coupling Nut	Brass	
Insulator	PTFE or Polyetherimid Resin	
Gasket	Fluorosilicon or Fluorocarbon	
PLATING		
Body	Passivated	
Center Contact	Gold	
Coupling Nut	Nickel	