TNC

CHARACTERISTICS

TEST / CHARACTERISTICS	STANDARD REFERENCE	VALUES / REMARKS	
ELECTRICAL CHARACTERISTICS			
Impedance	-	50Ω	-
Frequency Range	-	DC - 11 GHz	-
V.S.W.R.	3-14	1.30 max	-
Insertion Loss	3-27	0.18 dB max at 9 GHz	-
RF Leakage	3-26	-60 dB min from 2 to 3 GHz	-
Insulation Resistance	3-11	5000 MΩ min	-
Contact Resistance **• Center Contact (mΩ)** **• Outer Contact (mΩ)**	3-16 - -	Initial 1.5 0.2	- - -
Working Voltage	-	At Sea Level: 500 V rms	-
Dielectric Withstanding Voltage	3-17	At Sea Level: 1500 V rms	-
RF Withstanding Voltage	3-23	At Sea Level: 1000 V rms (5 MHz Sine Wave)	
MECHANICAL CHARACTERISTICS			
Durability	3-15	500 Matings	
Mating / Unmating	-	Axial force: Not Applicable Torque: 1.96 inch pounds (22.6 N.cm)	
Recommended Mating Torque	-	3.99 to 5.98 inch pounds (46 to 69 N.cm)	
Proof Torque	-	14.74 inch pounds (170 N.cm)	
Coupling Mechanism Retention Force	3-25	100 Lbf (44.5 daN)	
Cabling Retention Force	3-24	Cable Clamp:	40.6 Lbf (181 N min) (all cables)
		Crimped:	51 Lbf (227 N min) (cable dia. .189 (4.8) to .228 (5.8))
			76.4 Lbf (340 N min) (cable dia. .250 (6.35) and above)
Center Contact Retention	-	Axial: 6.06 Lbf (27 N)	
ENVIRONMENTAL CHARACTERISTICS			
Temperature Range **• Standard Models** **• Hermetic Sealed Models** **• Models for Semi-Rigid Cables**	 - - -	 -65 °C / + 165 °C -65 °C / +100 °C -65 °C / +105 °C	
Thermal Shock	3-20	MIL-STD-202, Method 107, Condition B	
High Temperature Endurance	-	MIL-STD-202, Method 108	
Corrosion (Salt Spray)	3-13	MIL-STD-202, Method 101, Condition B	
Vibrations	3-18	MIL-STD-202, Method 204, Condition B	
Shocks	3-19	MIL-STD-202, Method 213, Condition G	
Moisture Resistance	3-21	MIL-STD-202, Method 106	
Low Pressure	3-22	Not Applicable	
Hermetic Seal	-	Applied Vacuum 10^{-6} mm of Hg (Torrs) Leakage Rate < 10^{-6} atm/cm^3/s	
Leakage	-	Pressure 3.5 bars; Duration 2 mn; Temperature 15 °C to 25 °C	

MATERIALS AND PLATING

Body and Center Pin Contact	Brass as per QQ-B-626	Nickel Plated
Center Socket Contact	Beryllium Copper as per QQ-C-530	Gold Plated
Ferrules	Brass	-
Insulators	PTFE Teflon	-
Gaskets	Silicone Elastomer	-

Notes
All dimensions are given in mm.