

CHARACTERISTICS

TEST / CHARACTERISTICS	STANDARD REFERENCE	VALUES / REMARKS
------------------------	--------------------	------------------

ELECTRICAL CHARACTERISTICS

Impedance	-	50Ω
Frequency Range	-	DC - 7.5 GHz
Typical V.S.W.R.	-	1 GHz 2.5 GHz 5 GHz 7.5 GHz
• Straight Models	-	1.10 max from DC to 3 GHz - 1.20 max from 3 to 7.5 GHz
RG213-RG214-RG393	-	1.04 1.06 1.08 1.10
.141"	-	1.04 1.07 1.08 1.20
.250"	-	1.03 1.05 1.11 1.13
1/2" Superflexible Corrugated	-	1.02 1.04 1.05 1.05
3/8" Superflexible Corrugated	-	1.03 1.03 1.12 1.20
1/4" Superflexible Corrugated	-	1.01 1.02 1.09 1.17
• Right Angle Models	-	1.15 max from DC to 3 GHz
RG213-RG214-RG393	-	1.02 1.04 1.12 1.50
1/2" Superflexible Corrugated	-	1.04 1.04 1.14 1.60
3/8" Superflexible Corrugated	-	1.05 1.08 1.12 1.80
1/4" Superflexible Corrugated	-	1.02 1.06 1.13 1.60
Intermodulation Product (IMP ₃)	-	-110 dBm typ. (- 153 dBc typ / 20 W)
• Connectors	-	-125 dBm typ. (- 168 dBc typ. / 20 W)
• Home Made Cable Assemblies	-	
Insertion Loss (dB)	MIL	0.05 √F (GHz)
Straight Connectors and Right-Angle Connectors		
RF Leakage	CECC	130 dB at 1 GHz
Insulation Resistance	CECC	10 000 MΩ min
Contact Resistance		< 0.4 mΩ
• Center Contact	CECC	≤ 1.5 mΩ
• Outer Contact		
Working Voltage in VRMS at Sea Level	CECC	2 700
Dielectric Withstanding Voltage in VRMS		
• At Sea Level	CECC	4 000
(at 70,000 feet)		350

MECHANICAL CHARACTERISTICS

Durability	CECC	500 Matings
Force to Engage and Disengage	CECC	15 N
Recommended Coupling Nut Torque		
• Hex. Coupling Nut	-	3 500 Ncm (with Torque Wrench R 282 303 500)
• Hex. + Cross Knurl Coupling Nut	-	3 000 Ncm (with Torque Wrench R 282 303 520)
Proof Torque	CECC	3 500 Ncm
Coupling Nut Retention Force	CECC	1 000 N
Cable Retention Force		
Cable 5/50 & 10/50		250 N
Cable 1/4"	CECC	200 N
Cable 3/8"		250 N
Cable 1/2"		350 N
Cable 7/8"		500 N
Center Contact Retention Force	CECC	200 N

ENVIRONMENTAL CHARACTERISTICS

Temperature Range		- 55 °C + 155 °C
• Flexible Cables and Corrugated Cables	CECC	- 55 °C + 105 °C
• Semi-Rigid Cables		
Thermo Cycling Test	CECC	- 55 °C / + 155 °C / 56 Days
Rapid Change of Temperature	IEC	- 55 °C / + 155 °C / 5 Cycles
High Temperature Test	CECC	1000 hours / 155 °C
Corrosion Salt Spray	IEC	48 hours / Na Cl 5% / 35 °C
Vibration	CECC	98 m/s ² - 10 Hz at 500 Hz
Moisture Resistance		
• Clamp Type	IEC 529	IP67
• Crimp Type		IP65 (with Heatshrink Sleeve)
• Home Made Cable Assemblies		IP68 (Overmolding)
Hermetic Test	IEC	5 Pa. cm ³ /s
Leakage	CECC	1 cm ³ /h max