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)	-				
• Connectors	-	-110 dBm typ. (- 153 dBc typ / 20 W)			
• Home Made Cable Assemblies	-	-125 dBm typ. (- 168 dBc typ. / 20 W)			
Insertion Loss (dB) Straight Connectors and Right-Angle Connectors	MIL	0.05 √F (GHz)			
RF Leakage	CECC	130 dB at 1 GHz			
Insulation Resistance	CECC	10 000 MΩ min			
Contact Resistance	CECC				
• Center Contact		< 0.4 mΩ			
• Outer Contact		≤ 1.5 mΩ			
Working Voltage in VRMS at Sea Level	CECC	2 700			
Dielectric Withstanding Voltage in VRMS	CECC				
• At Sea Level		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	CECC				
Cable 5/50 & 10/50		250 N			
Cable 1/4"		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	CECC				
• Flexible Cables and Corrugated Cables		- 55 °C + 155 °C			
• Semi-Rigid Cables		- 55 °C + 105 °C			
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	IEC 529				
• Clamp Type		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			