

**HSR-141****Construction**

	Material	Diameter (Inch/mm)	
Inner Conductor	Silver plated copper clad steel	0.0359+/-0.0005	0.91+/-0.0127
Dielectric	PTFE	0.1175+/-0.001	2.98+/-0.0254
Outer Conductor	Seamless Copper Tube	0.141+/-0.001	3.58+/-0.0254

**Electrical & Mechanical Characteristics**

Capacitance (pF/m)	95.1
Impedance ( $\Omega$ )	50+/-2
Velocity of Propagation (%)	70.0
Corona Extinction voltage (VRMS@60Hz)	1900.0
Voltage withstanding (VRMS@60Hz)	5000.0
Max Operating Frequency (GHz)	34.0
Min. Inside Bend Radius (mm)	12.5
Outer Conductor Integrity Temp ( $^{\circ}\text{C}$ )	175.0
Operating Temp Range ( $^{\circ}\text{C}$ )	-55 to +125

**Attenuation & Average Power( 20  $^{\circ}\text{C}$  & Seal Level)**

Frequency(GHz)	Max Attenuation dB/ft. (dB/meter)	Power (Watts CW)
0.5	0.08 (0.26)	600.5
1.0	0.11 (0.37)	417.5
5.0	0.28 (0.91)	174.4
10.0	0.42 (1.36)	117.5
20.0	0.64 (2.09)	77.9

