

**HSR-250-75****Construction**

	Material	Diameter (Inch/mm)	
Inner Conductor	Silver plated copper clad steel	0.0359+/-0.001	0.912+/-0.0254
Dielectric	PTFE	0.214+/-0.001	5.44+/-0.0254
Outer Conductor	Seamless Copper Tube	0.250+/-0.001	6.35+/-0.0254

**Electrical & Mechanical Characteristics**

Capacitance (pF/m)	63.5
Impedance ( $\Omega$ )	75+/-2
Velocity of Propagation (%)	70.0
Corona Extinction voltage (VRMS@60Hz)	3000.0
Voltage withstanding (VRMS@60Hz)	7500.0
Max Operating Frequency (GHz)	38.0
Min. Inside Bend Radius (mm)	12.5
Outer Conductor Integrity Temp ( $^{\circ}\text{C}$ )	150.0
Operating Temp Range ( $^{\circ}\text{C}$ )	-55 to +100

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

Frequency(GHz)	Max Attenuation dB/ft. (dB/meter)	Power (Watts CW)
0.5	0.05 (0.16)	1233.8
1.0	0.07 (0.23)	848.9
5.0	0.18 (0.59)	340.9
10.0	0.28 (0.92)	224.0
20.0	0.45 (1.46)	143.9

