

HSR-047-SP**Construction**

	Material	Diameter (Inch/mm)	
Inner Conductor	Silver plated copper clad steel	0.0113+/-0.0005	0.29+/-0.0127
Dielectric	PTFE	0.037+/-0.001	0.94+/-0.0254
Outer Conductor	Seamless Silver-Plated Copper Tube	0.047+/-0.001	1.19+/-0.0254

Electrical & Mechanical Characteristics

Capacitance (pF/m)	95.1
Impedance (Ω)	50+/-3
Velocity of Propagation (%)	70.0
Corona Extinction voltage (VRMS@60Hz)	1000.0
Voltage withstanding (VRMS@60Hz)	2000.0
Max Operating Frequency (GHz)	109.0
Min. Inside Bend Radius (mm)	3.0
Outer Conductor Integrity Temp ($^{\circ}$ C)	175.0
Operating Temp Range ($^{\circ}$ C)	-55 to +150

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

Frequency(GHz)	Max Attenuation dB/ft. (dB/meter)	Power (Watts CW)
0.5	0.24 (0.79)	62.2
1.0	0.34 (1.12)	43.7
5.0	0.79 (2.59)	19.1
10.0	1.14 (3.74)	13.3
20.0	1.66 (5.45)	9.2

