



## Construction Specification

	Material	Diameter	
		mm	inch
1. Inner Conductor	Copper Clad Aluminum Wire	1.90	0.075
2. Dielectric	Foam PE	4.85	0.191
3. Outer Conductor	Corrugated Copper Tube	6.40	0.252
4. Jacket	Low Smoke Halogen-free PO	7.50	0.295

## Electrical Characteristics

Impedance	50 ohm
Velocity of Propagation	0.82
Capacitance	83 pF/m      25 pF/Ft
Inductance	0.20 μH/m      0.061 μH/ft
Peak Power Rating	6.4 KW
DC Test Voltage	1600 V
Insulation Resistance	$>1 \times 10^4$ MΩ.km
Cutoff frequency	20.4 GHz
Inner Conductor DC Resistance	10.2 Ω/km
Outer Conductor DC Resistance	7.25 Ω/km
Jacket Spark	5.0 KV
Shielding Effectiveness	120 dB

## Mechanical Characteristics

Min.Bending Radius Static	13mm	0.511inch
Min.Bending Radius Repeated	25mm	0.984inch
Tensile Strength(kg)	60	
Weight(g/m)	65	

## Environmental Characteristics

Operating Temperature Range(°C)	-55~+85
Installation Temp.(°C)	-40~+60
Storage Temperature Range(°C)	-70~+85

## Attenuation & Average Power @ 20°C and Sea Level

Frequency(MHz)	Attenuation		Power(KW CW)
	dB/100m	dB/100Ft	
100	5.885	1.794	1.15
200	8.402	2.561	0.83
450	12.811	3.905	0.55
800	17.359	5.291	0.4
900	18.423	5.615	0.37
1000	19.553	5.960	0.35
1575	24.918	0.867	0.29
1800	26.860	8.187	0.24
2000	28.452	8.672	0.23
2200	29.981	9.138	0.22
2500	32.171	9.806	0.21
3000	35.598	10.850	0.19
4000	41.837	12.752	0.16
5000	47.494	14.476	0.14
5500	50.100	15.270	0.13
6000	52.473	15.994	0.12