

**RG8/U****Construction**

	Material	Diameter (inch/mm)	
Inner Conductor	Bare Copper	<b>0.108</b>	<b>2.75</b>
Dielectric	Foam PE	<b>0.285</b>	<b>7.25</b>
First Shield	Bonded Aluminum Foil	0.315	8.00
Second Shield	95% Tinned Copper Braid	0.344	8.75
Jacket	PVC	<b>0.406</b>	<b>10.30</b>

**Electrical Characteristics**

Capacitance (pF/m)	82.0
Impedance ( $\Omega$ )	50.0
Velocity of Propagation (%)	82.0
Conductor DCR (Ohm/km)	3.9
Outer Shield DCR (Ohm/km)	3.6
Max Operating Voltage (RMS)	4000.0
Operating Temp Range ( $^{\circ}\text{C}$ )	-40 to 85

**Attenuation ( 20  $^{\circ}\text{C}$ )**

Frequency(MHz)	Max Attenuation (dB/100ft)	Max Attenuation (dB/100m)
10	0.5	1.6
50	1.0	3.3
100	1.4	4.6
200	1.8	5.9
400	2.6	8.5
600	3.0	9.8
860	4.1	13.5
1000	4.5	14.8
1500	5.5	18.0
2000	6.6	21.7
3000	8.5	27.9
4000	9.9	32.5
5800	11.1	36.5