

Coaxial Cable

RG142 B/U Double shield

Construction

	Material	Diameter (inch/mm)	
Inner Conductor	Silver Plated Copper Clad Steel	0.037	0.94
Dielectric	PTFE	0.116	2.95
First Shield	95% Silver Plated Copper Braid	0.142	3.60
Second Shield	95% Silver Plated Copper Braid	0.165	4.20
Jacket	Brown FEP	0.195	4.95

Electrical Characteristics

Capacitance (pF/m)	96.5
Impedance (Ω)	50.0
Velocity of Propagation (%)	70.0
Conductor DCR (Ohm/km)	63.3
Outer Shield DCR (Ohm/km)	7.5
Max Operating Frequency (MHz)	8000.0
Max Operating Voltage (RMS)	1900.0
Operating Temp Range ($^{\circ}\text{C}$)	-55 to 200

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

Frequency(MHz)	Max Attenuation (dB/100ft)	Max Attenuation (dB/100m)
10	1.1	3.6
50	2.6	8.5
100	3.8	12.5
200	5.4	17.7
400	7.9	25.9
700	10.7	35.1
900	12.3	40.4
1000	13.1	43.0
2000	19.3	63.3
3000	24.2	79.4
5000	32.6	107.0
8000	43.2	141.7