

Coaxial Cable

RG178 B/U

Construction

	Material	Diameter (inch/mm)	
Inner Conductor	Silver Plated Copper Clad Steel	7/0.004	7/ 0.10
Dielectric	PTFE	0.033	0.84
Shield	95% Silver Plated Copper Braid	0.051	1.30
Jacket	FEP	0.071	1.80

Electrical Characteristics

Capacitance (pF/m)	96.5
Impedance (Ω)	50.0
Velocity of Propagation (%)	69.5
Conductor DCR (Ohm/km)	800.5
Outer Shield DCR (Ohm/km)	47.9
Max Operating Frequency (MHz)	3000.0
Max Operating Voltage (RMS)	1000.0
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	5.6	18.4
50	10.5	34.4
100	14.0	45.9
200	19.0	62.3
400	28.0	91.9
700	37.0	121.4
900	42.5	139.4
1000	46.0	150.9
3000	79.8	262.0