

## Coaxial Cable

### RG316/U

#### Construction

	Material	Diameter (inch/mm)	
Inner Conductor	Silver Plated Copper Clad Steel	7/ 0.0067	7/ 0.17
Dielectric	PTFE	0.060	1.52
Shield	95% Silver Plated Copper Braid	0.078	1.98
Jacket	FEP	0.098	2.49

#### Electrical Characteristics

Capacitance (pF/m)	95.0
Impedance ( $\Omega$ )	50.0
Velocity of Propagation (%)	69.5
Conductor DCR (Ohm/km)	277.2
Outer Shield DCR (Ohm/km)	20.0
Max Operating Frequency (MHz)	3000.0
Max Operating Voltage (RMS)	1200.0
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	2.7	8.9
50	5.6	18.4
100	8.3	27.2
200	11.0	36.1
400	16.7	54.8
700	22.8	74.8
900	26.3	86.3
1000	27.5	90.2
3000	47.3	155.2