

# Datasheet

## RG316 Coaxial Cable

RG316/U

### Construction



Cable Marking: RG316 U FEP

Item	Material	Diameter (inch/mm)
Inner Conductor	Silver Plated Copper Clad Steel	7/ 0.17 ± 0.02
Dielectric	PTFE(Nature)	1.52 ± 0.08
Shield	Silver Plated Copper Braid(16/5/0.10)	95% ± 5%
Jacket	FEP(Brown)	2.49 ± 0.10

### Electrical Characteristics

Capacitance (pF/m)	95.0
Impedance (Ω)	50 ± 2
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
Corona Extinction voltage (VRMS)	1200.0
Voltage Withstand (VRMS)	2000.0
Spark Test (VRMS)	2000.0
Operating Temp Range (°C)	-55 to 200

### Attenuation ( @ 20 °C)

Frequency (MHz)	Attenuation (dB/100ft)	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	28.6	93.8
3000	53.3	174.9