

## RG8/U

### Construction

Item	Material	Diameter (Inch/mm)	
Inner Conductor	Multicore bare copper	0.108	7x0.75
Dielectric	Semi solid PE	0.285	7.24
First Shield	Bonded Aluminum Foil	0.291	7.39
Second Shield	Tinned Copper wire Braid 93% coverage	0.320	8.13
Jacket	PVC (Black)	0.405	10.29

### Electrical Characteristics

Impedance ( $\Omega$ )	50 $\pm$ 3
Capacitance (pF/m)	78.4
Velocity of Propagation (%)	85.0
Return Loss (dB)	20
Screening Effectiveness (dB)	90
Inner Conductor DCR ( $\Omega$ /km)	4.6
Outer Shield DCR ( $\Omega$ /km)	5.4
Voltage withstand (Volts DC)	2500.0
Spark Test (VRMS)	8000.0
Installation Temp Range ( $^{\circ}$ C)	-40 to +85
Operating Temp Range ( $^{\circ}$ C)	-40 to +85

### Attenuation ( @ 20 $^{\circ}$ C )

Frequency (MHz)	Max Attenuation (dB/100ft)	Max Attenuation (dB/100m)
30	0.7	2.2
50	0.9	2.9
150	1.5	5.0
220	1.9	6.1
450	2.7	8.9
900	3.9	12.8
1500	5.1	16.8
1800	5.7	18.6
2000	6.0	19.6
2500	6.8	22.2
5800	10.8	35.5

