

Construction

Item	Material	Diameter (Inch / mm)	
Inner conductor	Silver plated copper clad steel	0.0362 ±0.0007	0.92 ±0.02
Dielectric	PTFE	0.1175 ±0.001	2.98 ±0.03
Outer conductor	Copper tube	0.141 ±0.001	3.58 ±0.03

Electrical Characteristics

Capacitance (pF/m)	: 95.1
Impedance (Ω)	: 50 ±1
Velocity of propagation (%)	: 69.5
Inner conductor DCR	: 67.6
Max. operating frequency (GHz)	: 20
Max. operating voltage (RMS)	: 1,900
Min. inside bend radius (mm)	: 12.5
Min. corona extinction voltage (Vrms)	: 1,900
Min. voltage withstand (Vrms)	: 5,000
Operating temperature range	: -55°C to +125°C

Attenuation and Average Power (at 20 °C and Sea Level)

Frequency (GHz)	Attenuation		Average Power (Watts CW)
	(dB/ft)	(dB/meter)	
0.5	0.08	0.26	600.5
1	0.11	0.37	417.5
5	0.28	0.91	174.4
10	0.42	1.36	117.5
20	0.64	2.09	77.9

Part Number Table

Description	Part Number
Cable, Coax, Semi Rigid, RG402, 1M	RG402

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