

Construction

Item	Material	Diameter (Inch / mm)	
Inner conductor	Silver plated copper	0.0641 ±0.001	1.63 ±0.03
Dielectric	PTFE	0.209 ±0.002	5.3 ±0.05
Outer conductor	Copper tube / tin-plated copper tube	0.250 ±0.001	6.35 ±0.03

Electrical Characteristics

Capacitance (pF/m)	: 95.1
Impedance (Ω)	: 50 ±0.5
Velocity of propagation (%)	: 69.5
Inner conductor DCR (Ohm / km)	: 8.4
Maximum operating frequency (GHz)	: 18
Maximum operating voltage (RMS)	: 3,000
Minimum inside bend radius (mm)	: 22.2
Minimum corona extinction voltage (Vrms)	: 3,000
Minimum voltage withstand (Vrms)	: 7,500
Operating temperature range (°C)	: -55 to +125

Attenuation and Average Power

Frequency (GHz)	Attenuation		Average Power (Watts CW)
	(dB/ft)	(dB/meter)	
0.5	0.05	0.16	1,332.1
1	0.07	0.23	914.6
5	0.17	0.56	364.4
10	0.27	0.89	238.2
18	0.48	1.57	200

Part Number Table

Description	Part Number
Cable, Coax, Semi Rigid, RG401, 1M	RG401

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