

Construction

Item	Material	Diameter (Inch / mm)	
Inner conductor	Silver plated copper	0.037 ±0.001	0.94 ±0.0254
Dielectric	PTFE	0.116 ±0.005	2.95 ±0.127
First shield	95% Silver plated copper braid	0.142 ±0.005	3.6 ±0.127
Second shield	93% Silver plated copper braid	0.169 ±0.005	4.3 ±0.127
Jacket	Brown FEP	0.195 ±0.005	4.95 ±0.127

Electrical Characteristics

Capacitance (pF/m)	: 96.5
Impedance (Ω)	: 50 ±2
Velocity of propagation (%)	: 69.5
Maximum operating frequency (GHz)	: 12.4
Maximum operating voltage (RMS)	: 1,900
Corona extinction voltage (Vrms)	: 1,900
Voltage withstand (Vrms)	: 5,000
Minimum spark test (Vrms)	: 2,000
Operating temperature range (°C)	: -55 to 200

Attenuation (at 20°C)

Frequency (MHz)	Maximum Attenuation (dB / 100 ft)	Maximum Attenuation (dB / 100 m)
50	2.6	8.5
100	3.8	12.5
400	7.9	25.9
900	12.3	40.4
1,000	13.1	43
3,000	24.2	79.4

Part Number Table

Description	Part Number
Cable, Coax, RG142,100 M	RG142

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