

Construction

Item	Material	Diameter (Inch / mm)	
Inner conductor	Silver plated copper clad steel	7 / 0.004 ±0.001	7 / 0.1 ±0.02
Dielectric	PTFE	0.033 ±0.002	0.84 ±0.05
Shield	95% Silver plated copper braid	0.051 ±0.003	1.3 ±0.08
Jacket	FEP	0.071 ±0.004	1.8 ±0.1

Electrical Characteristics

Capacitance (pF/m)	: 96.5
Impedance (Ω)	: 50 ±2
Velocity of propagation (%)	: 69.5
Conductor DCR (Ohm / km)	: 800.5
Outer shield DCR (Ohm / km)	: 47.9
Maximum operating frequency (MHz)	: 3,000
Maximum operating voltage (RMS)	: 1,000
Corona extinction voltage (Vrms)	: 1,000
Voltage withstand (Vrms)	: 2,000
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)
10	5.6	18.4
50	10.5	34.4
100	14	45.9
200	19	62.3
400	28	91.9
700	37	121.4
900	42.5	139.4
1,000	46	150.9
3,000	81	265.7

Part Number Table

Description	Part Number
Cable, Coax, RG178,100 M	RG178

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