

Construction

Item	Material	Diameter (Inch / mm)	
Inner conductor	Silver plated copper clad steel	7 / 0.0067 ±0.001	7 / 0.17 ±0.02
Dielectric	PTFE	0.06 ±0.003	1.52 ±0.08
Shield	95% Silver plated copper braid	0.078 ±0.003	1.98 ±0.08
Jacket	FEP	0.098 ±0.004	2.49 ±0.1

Electrical Characteristics

Capacitance (pF/m)	: 95
Impedance (Ω)	: 50 ±2
Velocity of propagation (%)	: 69.5
Conductor DCR (Ohm / km)	: 277.2
Outer shield DCR (Ohm / km)	: 20
Maximum operating frequency (MHz)	: 3,000
Maximum operating voltage (RMS)	: 1,200
Corona extinction voltage (Vrms)	: 1,200
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	2.7	8.9
50	5.6	18.4
100	8.3	27.2
200	11	36.1
400	16.7	54.8
700	22.8	74.8
900	26.3	86.3
1,000	28.6	93.8
3,000	53.3	174.9

Part Number Table

Description	Part Number
Cable, Coax, RG316,100 M	RG316

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