



## Electrical Characteristics

Capacitance	: 96.5 pF/m
Impedance	: 50Ω ±2
Velocity of Propagation	: 69.5%
Max Operating Frequency	: 12.4 GHz
Max Operating Voltage	: 1,900 RMS
Corona Extinction Voltage	: 1,900V <sub>RMS</sub>
Voltage Withstand (V <sub>RMS</sub> )	: 5,000V <sub>RMS</sub>
Spark Test	: 2,000V <sub>RMS</sub> , Min.
Operating Temperature	: -55°C to 200°C

## 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)
Conductor Area CSA	-	0.694mm <sup>2</sup>

## Attenuation (at 20°C)

Frequency (MHz)	Max Attenuation (dB/100ft)	Max Attenuation (dB/100m)
50	3	9.8
100	4.4	14.4
400	9.3	30.5
800	13.3	43.5
900	14.3	47
1000	15.3	50.2
3000	29.3	96.1

## Part Number Table

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

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