



Technical Specification of RG142 Coaxial Cable

1. Basic Information

- **Category:** Coaxial Cable
- **Impedance:** $50 \pm 3 \Omega$

2. Construction Parameters

Component	Specification
Inner Conductor	1/0.94 $\pm$ 0.01 mm Silver Plated Copper Clad Steel (SPCCS)
Dielectric	2.95 $\pm$ 0.05 mm PTFE (White)
Shield 1	16 $\times$ 7 $\times$ 0.12 mm Silver Plated Copper (SPC); Braiding Density: 95% $\pm$ 3%
Shield 2	16 $\times$ 7 $\times$ 0.12 mm Silver Plated Copper (SPC); Braiding Density: 93% $\pm$ 3%
Jacket	4.95 $\pm$ 0.10 mm FEP (Natural Brown)
Cable Dimensions	2.54 $\pm$ 0.10 mm

3. Electrical Characteristics

- **Capacitance:** 100 $\pm$ 5 pF/m
- **Velocity of Propagation:** 70%
- **Max Operating Voltage:** 1400 VMS
- **Max Operating Frequency:** 12400 MHz
- **Attenuation (20°C):**

Frequency (MHz)	Max Attenuation (dB/100m)
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100	12.50
400	25.60
1000	42.00
3000	78.10
5000	105.00
8000	189.80
12400	280.20

4. Mechanical and Environmental Properties

- **Cable Bend Radius:** 25 mm
- **Operating Temperature Range:** -55 °C to 200 °C