



Technical Specification for RG6 S 40% PVC 75 Ohm CATV Coaxial Cable

1. General Information

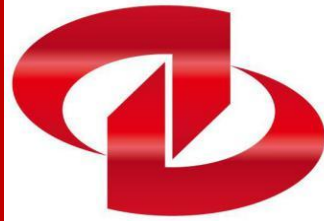
- **Model:** RG6 S
- **Product Category:** Coaxial Cable
- **Application:** Designed for longer CATV run lengths, suitable for main trunk/distribution in IRS, MATV, and CATV systems requiring extended cable runs; compatible with broadband data transmission in wireless and broadband networks.
- **Certifications:** UL, ETL, CE, RoHS compliant

2. Construction Parameters

Component	Specification
Inner Conductor	0.040"/1.02mm/18AWG Copper-Clad Steel (CCS)
Dielectric	0.180"/4.57mm Foamed Polyethylene (PE)
Shield 1	0.187"/4.75mm Bonded Aluminum PET
Shield 2	Aluminum Braid Wire with 40% Coverage
Jacket	0.268"±0.006"/6.81±0.15m m Polyvinyl Chloride (PVC)
Jacket Thickness	0.030"/0.76mm

3. Electrical Characteristics (at 20°C)

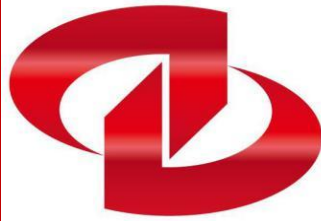
Parameter	Specification
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Inner Conductor Resistance	Maximum: < 87 Ω /km (26.6 Ω /1000ft)
Capacitance	52 $\pm$ 3 pF/m (15.9 $\pm$ 0.9 pF/ft)
Impedance	75 $\pm$ 3 Ω
Return Loss	> 22 dB (frequency range: 5 - 1000 MHz)
Velocity of Propagation	0.85
Sparker Test (VAC)	4
Attenuation (Maximum)	Refer to the table below

Attenuation Details (20°C)

Frequency (MHz)	Max Attenuation (dB/100ft)	Max Attenuation (dB/100m)
5	0.58	1.90
55	1.60	5.25
83	1.95	6.40
187	2.85	9.35
211	3.05	10.00
250	3.30	10.82
300	3.55	11.64
350	3.85	12.63
400	4.15	13.61
450	4.40	14.43



500	4.66	15.29
550	4.90	16.08
600	5.10	16.73
750	5.65	18.54
865	6.10	20.01
1000	6.55	21.49

4. Mechanical and Environmental Properties

- **Cable Bend Radius:** 10 times the cable diameter
- **Operating Temperature Range:** -20 °C to 60 °C
- **Mechanical Strength:** Mechanically robust with stable performance
- **Water Resistance:** Physical foamed dielectric prevents water ingress

5. Key Features

- Physical foamed dielectric ensures water resistance, mechanical robustness, and stable attenuation up to 3 GHz.
- Optimum shielding structure (bonded aluminum PET + aluminum braid) provides excellent protection against interference and enhances mechanical strength.
- Complies with international industry standards; customizable options available for construction, jacket color, and materials.

6. Order and Packaging Information

- **Length Options:** 100m, 305m, 500m, 1000m, 500ft, 1000ft (or as per inquiry)
- **Packaging Types:** Reel, wooden spool, carton, pallet, plastic spool, pull box, etc.
- **Marking:** RG6 S 40% PVC CATV COAXIAL CABLE 7100001 ***M/FT
- **Minimum Order Quantity (MOQ):** 30 KM