

ETL 50 OHM COAXIAL CABLE – RG8



Applications

- High-performance jumper assemblies and drop-in replacements for traditional RG8 runs in telecommunication infrastructure.
- Used for low-loss RF distribution lines, base station antennas, and indoor/outdoor wireless communication systems.
- Ideal for routing through equipment rooms, optical communication frames, and distribution centers requiring stringent low-smoke, fire-retardant profiles.

Features

- **Double-Shielded Architecture:** Combines a 100% coverage bonded aluminum/polyester tape with a ≥90% density aluminum braid to deliver superior shielding effectiveness (>90 dB) and maximum EMI protection.
- **Low-Loss Efficiency:** Features a premium foamed polyethylene (PE) dielectric paired with a Solid CCA conductor for optimal electrical performance at high frequencies.
- **Exceptional Flexibility:** High-grade PVC jacket formulation yields a tight minimum bending radius (≥ 5x cable diameter), allowing for smooth installation in tight architectural spaces and distribution frames.
- **Superior Environmental Compliance:** Non-halogen, non-toxic, and low-smoke construction ensures enhanced safety profiles for critical indoor and industrial deployments.

Cable Construction

Parameters	Material / Details	Dimensions / Coverage
Conductor	Solid CCA (Copper-Clad Aluminium)	2.74 ± 0.005mm
Insulation	Foamed PE (Polyethylene)	7.24 ± 0.10mm
1st Shield	Aluminum / Polyester bonded to dielectric	100% Coverage
2nd Shield	Aluminium Braid (24x7x0.15mm)	≥ 90% Coverage
Sheath / Jacket	PVC (Low Smoke, Fire Retardant)	10.30 ± 0.10mm
Colour	Black	
Bending Radius	Dynamic / Static	≥ 5x diameter
Installation Temp	Operational Range	-40°C to +80°C

Conductor Resistance @ 20°C	≤ 5.2 Ω/km
Nominal Impedance	50 ± 3 Ω
Capacitance	78 ± 5 pF/m
Velocity Ratio	85%

Frequency (MHz)	Maximum Atténuation (dB / 100 m)
140	6.0
350	9.0
900	15.0
1800	21.0
1900	21.70