

Product Specifications

RG6 DUAL SHIELDING COAXIAL CABLE



Specification

■ Center Conductor	Copper or copper clad steel	$\Phi 1.02 \pm 1\%$
	Tensile break	$\geq 373 \text{ MPa}$
■ Dielectric	Polyethylene physically expanded by nitrogen gas	
	Adhesion force between the dielectric and center conductor: Minimum 22 N and Maximum 111 N (Compliant to ANSI/SCTE-59-2002)	
■ Laminated Shield Tape	Aluminum Tape	Overlap 18%
	Core Diameter	$4.78 \pm 0.08 \text{ mm}$
	Core Ovality	Maximum 0.33mm
	Shielding Effectiveness(IEC 62153-4-4): 5 – 1000 MHz: $\geq 75 \text{ dB}$; 1000 – 2200 MHz: $\geq 85 \text{ dB}$	
■ Braid Wire Diameter	$0.127 \pm 0.01 \text{ mm}$	
Braid Wire Coverage	$\geq 53\%$	
Braid Wire Tensile	300 MPa and elongation at break shall be higher than 3%	
■ Jacket	P.V.C.	$6.93 \pm 0.15 \text{ mm}$
	Thickness	$0.65 \pm 0.15 \text{ mm}$
	Color	Pure White
	UV resistance	$\geq 720 \text{ hours}$
	Density (g/cm ³)	$\leq 1.45 \text{ (maximum)}$
	Traction to rupture	$\geq 12.40 \text{ MPa}$
	Elongation	$\geq 250\%$
	Retention of the elongation	$\geq 50\% \text{ (at } 100^\circ\text{C for 168 h)}$
	Resistance to low temperature	-21°C

Electrical requirements

■ Operating Frequency Range: DC to 2200 MHz	■ Return Loss: 5 – 1002 MHz $\geq 20 \text{ dB}$ 1003 – 2200 MHz $\geq 15 \text{ dB}$
■ Velocity of Propagation (Vp) : $\geq 82\%$	■ DC loop resistance: $\leq 135 \Omega/\text{km}$ at 20°C
■ Characteristic Impedance: $75 \pm 3 \text{ ohms}$	■ Isolation resistance: $\geq 1500 \text{ M}\Omega.\text{km}$

Maximum Attenuation at 68°F (20°C)												
Frequency (MHz)	5	55	211	270	300	330	400	450	550	750	800	1000
dB/100m	2.70	5.25	10.00	11.04	11.64	12.26	13.61	14.43	16.08	18.57	20.22	21.49
Frequency (MHz)	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200
dB/100m	22.54	23.54	24.51	25.43	26.33	27.20	28.04	28.87	29.66	30.43	31.18	31.92