

RG6U-RB-*

RG-6 Coaxial Cable Swept tested to 4 GHz (4,000 MHz)

Specifications

Center Conductor

Material	Copper Clad Steel
Diameter	0.0403" (1.02 mm)
Joints	No joints in the finished product
Tolerance	± 0.5%
Tensile Strength	67,000 psi
Elongation	0.85% minimum
Max. DC Resistance	6.77Ω / kft, 22.2Ω/km

Dielectric

Material	Gas injected virgin polyethylene with closed cell structure, Bonded to the center conductor, Contains stabilization package to meet the requirements of SBCA section 8.1.4 Thermal oxidative stability (TOS)
Diameter	0.180 Inches (4.57 mm)

First Outer Conductor, Aluminum Foil

Material	Laminated Shielding Tape (LST). LST is constructed of two aluminum foils laminated to a strength member and a bonding resin on one side.
Dimensions	0.0032 Inches max., 0.00186 Inches min. 81.28 micron max., 47.24 micron min.
Overlap Application	LST Overlaps the dielectric circumference by 18% minimum to 35% maximum Application: The LST is applied longitudinally to the dielectric and is free of creases or twists over the entire length.

Core (Center Conductor, Dielectric & LST)

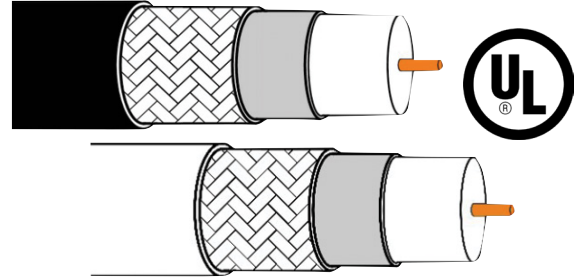
Diameter	0.188 Inches ±0.005 (4.75 mm ±0.13)
Core Ovality	Maximum core ovality 0.013 Inches (0.33 mm)

Second Outer Conductor, 60% Braid

Material	Round aluminum wire
Dimensions	36 AWG (0.0050 ±0.0003 Inches), (0.127 ±0.01 mm)
Tensile Strength	43,000 psi minimum
Elongation	3%, for individual strands
Braid Coverage	60%

Jacket

Material	Polyvinylchloride (PVC), CMX Listed, UL Listed, UV Stable, 720 Hour sunlight resistance test
Dimensions	0.273 ±0.008 (6.93 ±0.203 mm)



Specifications

Finished Product Test

Cold Bend Test	-40°F/C
Impact Test	Cable can withstand impact without damage to the jacket at 5°F (-15°C)
Thermal Oxidative Stability	After 20 minutes minimum aging, 70% of initial value.
Center Cd. Bond To Dielectric	5 lbs minimum (2.3 kg minimum)
Velocity of Propagation	82.5% Measured using SCTE IPST006
Impedance	75±2.5 Ohms Measured using ANSI/SCTE 03
Structural Return Loss	20 dB (minimum) in frequency range 5-2,250 MHz
Spark Test	5,000kV
Voltage Test	The dielectric between the inner conductor and the outer conductor of the cable is able to withstand without breakdown, for one minute, an alternating voltage of 1,000V at a frequency of 60 Hz at room temperature.

Ordering Information

Model Number	Jacket Color	Size/Type
RG6U-RB-BLK	Black	1000'/Reel
RG6U-RB-WT	White	1000'/Reel
RG6U-RB-GRY	Gray	500'/Reel
RG6U-RB-OR	Orange	500'/Reel
RG6U-RB-BL	Blue	500'/Reel-in Box
RG6U-RB-GR	Green	500'/Reel-in Box

Attenuation

Freq. (MHz)	dB (100 Feet)	dB (100 Meters)	Freq. (MHz)	dB (100 Feet)	dB (100 Meters)	Freq. (MHz)	dB (100 Feet)	dB (100 Meters)	Freq. (MHz)	dB (100 Feet)	dB (100 Meters)	Freq. (MHz)	dB (100 Feet)	dB (100 Meters)
5	0.57	1.87	300	3.43	11.25	500	4.51	14.80	950	4.51	14.80	2250	10.00	32.81
55	1.60	5.25	330	3.61	11.84	550	4.51	14.80	1000	4.51	14.80			
211	2.87	9.43	350	3.72	12.20	600	4.51	14.80	1450	4.51	14.80			
250	3.12	10.24	400	4.00	13.12	750	4.51	14.80	1750	4.51	14.80			
270	3.24	10.63	450	4.28	14.04	870	4.51	14.80	2050	4.51	14.80			