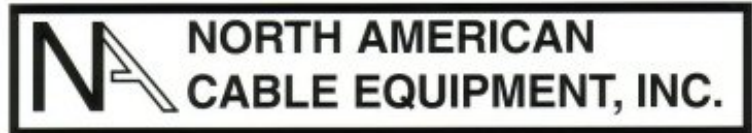


# RG6U-RB-\*-BC UL Listed RG-6 Coaxial Cable

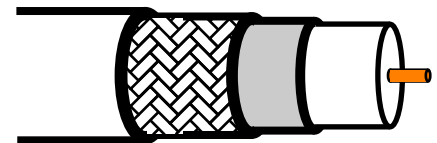
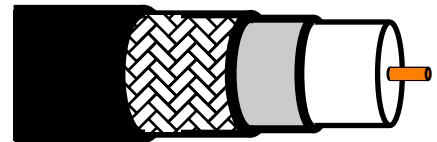
Swept tested to 4 GHz (4,000 MHz)



**Cable Type:** Series 6 Type DBS Coaxial Drop Cable  
**Impedance:** 75 Ohms

## Center Conductor

**Material:** Solid Copper  
**Joints:** No joints in the finished product  
**Diameter:** 0.0403 Inches (1.02 mm)  
**Tolerance:** +/- 0.5%  
**Tensile Strength:** 67,000 psi  
**Elongation:** 0.85% minimum  
**Max. DC resistance:** 6.77 Ohms / kft, 22.2 Ohms / 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:** 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%

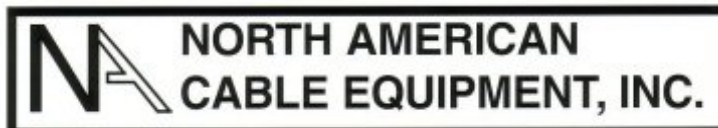
## Ordering Information:

|                |                                                                                   |
|----------------|-----------------------------------------------------------------------------------|
| RG6U-RB-BLK-BC | RG-6, UL Listed, solid copper center conductor, 1,000' reel-in-box, black jacket  |
| RG6U-RB-WT-BC  | RG-6, UL Listed, solid copper center conductor, 1,000' reel-in-box, white jacket  |
| RG6U-RB-GRY-BC | RG-6, UL Listed, solid copper center conductor, 1,000' reel-in-box, gray jacket   |
| RG6U-RB-OR-BC  | RG-6, UL Listed, solid copper center conductor, 1,000' reel-in-box, orange jacket |
| RG6U-RB-BL-BC  | RG-6, UL Listed, solid copper center conductor, 1,000' reel-in-box, blue jacket   |
| RG6U-RB-GN-BC  | RG-6, UL Listed, solid copper center conductor, 1,000' reel-in-box, green jacket  |

# RG6U-RB-\*-BC

## UL Listed

## RG-6 Coaxial Cable



### Jacket

Material: Polyvinylchloride (PVC), CMX Listed, UL Listed  
 UV Stable, 720 Hour sunlight resistance test  
 Diameter: 0.273 +/-0.008 (6.93 +/-0.203 mm)

### 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.

Maximum Attenuation:

### Maximum Attenuation @ 68°F (68°C)

| Frequency (MHz) | Attenuation<br>dB/100 Feet | dB/100 Meters |
|-----------------|----------------------------|---------------|
| 5               | 0.57                       | 1.87          |
| 55              | 1.60                       | 5.25          |
| 211             | 2.87                       | 9.43          |
| 250             | 3.12                       | 10.24         |
| 270             | 3.24                       | 10.63         |
| 300             | 3.43                       | 11.25         |
| 330             | 3.61                       | 11.84         |
| 350             | 3.72                       | 12.20         |
| 400             | 4.00                       | 13.12         |
| 450             | 4.28                       | 14.04         |
| 500             | 4.51                       | 14.80         |
| 550             | 4.76                       | 15.62         |
| 600             | 4.98                       | 16.34         |
| 750             | 5.62                       | 18.44         |
| 870             | 6.09                       | 19.99         |
| 950             | 6.50                       | 21.33         |
| 1000            | 6.54                       | 21.46         |
| 1450            | 8.00                       | 26.25         |
| 1750            | 8.74                       | 28.67         |
| 2050            | 9.46                       | 31.04         |
| 2250            | 10.00                      | 32.81         |