



# RG-58 C/U 50 Ohms Coaxial Cable

## CONSTRUCTION

Inner Conductor

Insulation

Outer Conductor

Jacket



## PROPERTIES

**Min. Bending Radius:** 12.7 mm

**Max. Pulling Tension** 150 N

**Crush resistance of cable** (load of 700N) < 1 %

### Rated Temperature

Storage/operating temperature -20~+75 °C

Outdoor Installation -20 °C

## PHYSICAL SPECIFICATIONS

**Center Conductor** Stranded Tinned Copper

Conductor Dia.(+/-0.015mm) 0.94 (19/0.18)

Min. Break Strength (N) 222

**Insulation** Solid Polyethylene

Insulation Dia.(+/-0.15mm) 2.95

Color Neutral

Centricity (%) ≥ 85

Adhesion 10 to 100N @ 25mm

**Outer Conductor** Tinned Copper Braid

Conductor Dia.(+/-0.01mm) 0.12

No. of Wires 112

Coverage (+/-3%) 90

**Outer Jacket** PVC

Outer Dia (+/-0.15mm) 4.95

Tensile strength ≥ 10.5 N/mm<sup>2</sup>

Elongation at break ≥ 150 %

Adhesion 40 to 100N @ 50mm

## ELECTRICAL CHARACTERISTICS

**Characteristic Impedance** 50 +-3ohm

**Capacitance** 101 ±3pF/m

**Velocity Ratio** > 66 %

**DC Resistance: Centre Conductor** < 35 ohm/km

**DC Resistance: Outer Conductor** < 14 ohm/km

**Peak Power rating** 2.10 Kw

**Cut Off Frequency** 33.00 GHz

**Insulation Resistance** > 5,000 MΩ·km

**Dielectric Strength** 1000 VAC

**Voltage Withstand** 2000 VDC

**Screening Factor at 1 - 1000MHz** > 90 dB

**Frequency** **Attenuation** (at 20 °C)

1 MHz 0.45 dB/100Ft

10 MHz 1.50 dB/100Ft

50 MHz 3.90 dB/100Ft

100 MHz 5.05 dB/100Ft

200 MHz 8.20 dB/100Ft

400 MHz 9.60 dB/100Ft

500 MHz 11.90 dB/100Ft

700 MHz 17.00 dB/100Ft

900 MHz 18.00 dB/100Ft

1000 MHz 19.80 dB/100Ft

3000 MHz 36.00 dB/100Ft