

**Flexible Coaxial Cable**  
**50 Ω - PE - Single Shielding**

**RG-58C/U**



**Material And Diameter**

Connector parts	Material	Diameter
Inner Conductor	Copper, Tin plated (Stranded )	0.91 mm
Dielectric	PE (Polyethylene)	2.95±0.1 mm
Outer Shield	Copper, Tin plated	3.6±0.1 mm
Jacket	PVC (PolyVinyl Chloride)	4.95±0.1 mm

**Electrical Data**

Impedance	50 Ω ± 3
Frequency	DC to 1 GHz
Capacitance	98±3 pF/m
Velocity of signal propagation	66 %
Signal delay	5.03 ns/m
Insulation resistance	≥ 1 × 10 <sup>6</sup> MΩ/m
Screening effectiveness	≥ 38 dB (up to 1 GHz)
Operating voltage	≤ 2.5 kVrms (@ sea level)

**Mechanical Data**

Weight	N/A
Min. bending radius	25 mm

**Environmental Data**

Temperature range	-25°C to +85°C
Installation temperature	-20°C to +60°C
RoHS (2011/65/EU)	compliant

**Typical Attenuation**

Frequency (GHz)	Typical Attenuation (dB/m) @ 25°C sea level	Typical Attenuation (dB/ft) @ 25°C sea level	Max. CW power (Watt) @ 40°C sea level
0.1	0.16	0.05	332
0.4	0.38	0.12	166
0.9	0.66	0.20	111
1	0.71	0.22	105