

**Flexible Coaxial Cable
50 Ω - PE - Single Shielding**
RG-58C/U

Material And Diameter

Connector parts	Material	Diameter
Inner Conductor	Copper, Tin plated (Stranded)	0.9 mm
Dielectric	PE (Polyethylene)	2.95 mm
Outer Shield	Copper, Tin plated	3.6 mm
Jacket	PVC II (PolyVinyl Chloride)	4.95 mm

Electrical Data

Impedance	50 Ω ± 2
Frequency	DC to 1 GHz
Capacitance	101 pF/m
Velocity of signal propagation	66 %
Signal delay	5.03 ns/m
Insulation resistance	≥ 1 × 10 ⁸ MΩ/m
Screening effectiveness	≥ 38 dB (up to 1 GHz)
Operating voltage	≤ 2.5 kVrms (@ sea level)

Mechanical Data

Weight	37 g/m
Min. bending radius	25 mm (Static) 50 mm (Dynamic)

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	0.13	0.04	332
0.4	0.31	0.10	166
0.9	0.54	0.17	111
1	0.58	0.18	105