

Technical Data Sheet

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 $50 \Omega \pm 2$ DC to 1 GHz Frequency Capacitance 101 pF/m Velocity of signal propagation 66 % 5.03 ns/m Signal delay $\geq 1 \times 10^8 M\Omega/m$ Insulation resistance ≥ 38 dB (up to 1 GHz) Screening effectiveness 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 $-25\,^{\circ}\text{C}$ to $+85\,^{\circ}\text{C}$ Installation temperature $-20\,^{\circ}\text{C}$ to $+60\,^{\circ}\text{C}$ 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	031	0.10	166
0.9	0.54	0.17	111
1	0.58	0.18	105

The facts and figures herein are carefully compiled to the best of our
knowledge, but they are intended for general informational purposes only
In the effort to improve our products, we reserve the right to make changes
judged to be necessary.

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