

**Flexible Coaxial Cable  
50 Ω - PE - Double Shielding**
**RG-223/U**

**Material And Diameter**

Connector parts	Material	Diameter
Inner Conductor	Copper, Silver plated	0.88 mm
Dielectric	PE (Polyethylene)	2.95 mm
First Outer Shield	Copper, Silver plated	3.6 mm
Second Outer Shield	Copper, Silver plated	4.2 mm
Jacket	PVC II (PolyVinyl Chloride)	5.4 mm

**Electrical Data**

Impedance	50 Ω ± 2
Frequency	DC to 6 GHz
Capacitance	101 pF/m
Velocity of signal propagation	66 %
Signal delay	5 ns/m
Insulation resistance	≥ 1 × 10 <sup>8</sup> MΩ/m
Screening effectiveness	≥ 85 dB (up to 1 GHz)
Operating voltage	≤ 2.5 kVrms (@ sea level)

**Mechanical Data**

Weight	55 g/m
Min. bending radius	30 mm (Static) 54 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
0.3	0.23	0.07	219
0.6	0.34	0.10	155
0.9	0.42	0.13	126
1.2	0.5	0.15	110
1.8	0.64	0.20	89
2.4	0.76	0.23	77
3	0.88	0.27	69
5.1	1.23	0.38	53
6	1.37	0.42	49