

Flexible Coaxial Cable 50 Ω - PTFE - Double Shielding

RG-142B/U



Material And Diameter

Connector parts	Material	Diameter
Inner Conductor	Steel, Copper + Silver plated	0.94 mm
Dielectric	PTFE (Polytetrafluoroethylene)	2.98 mm
First Outer Shield	Copper, Silver plated	3.45 mm
Second Outer Shield	Copper, Silver plated	3.95 mm
Jacket	FEP (Fluorinated ethylene propylene)	4.95 mm

Electrical Data

Impedance	50 Ω ± 2
Frequency	DC to 6 GHz
Capacitance	98 pF/m
Velocity of signal propagation	70 %
Signal delay	4.7 ns/m
Insulation resistance	≥ 1 × 10 ⁸ MΩ/m
Screening effectiveness	≥ 85 dB (up to 6 GHz)
Operating voltage	≤ 2.0 kVrms (@ sea level)

Mechanical Data

Weight	66 g/m
Min. bending radius	30 mm (Static)

Environmental Data

Temperature range	-65°C to +150°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	2350
0.4	0.27	0.08	1050
0.9	0.43	0.13	640
1	0.46	0.14	600
1.8	0.63	0.19	430
2.4	0.72	0.22	350
3	0.82	0.25	310
5	1.07	0.33	250
6	1.35	0.41	220