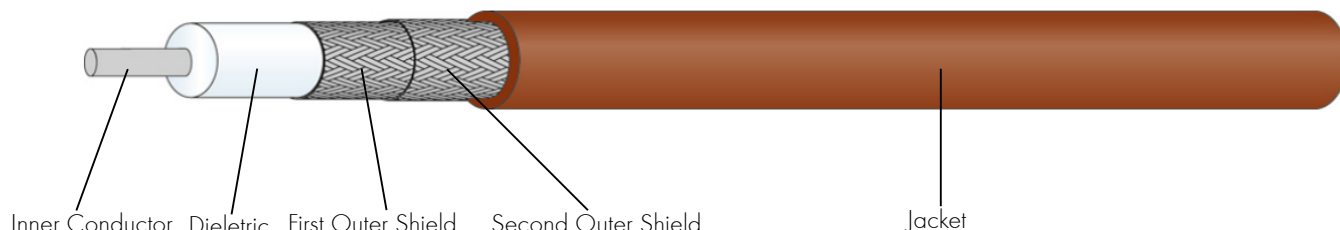




Flexible Coaxial Cable
50 Ω - PTFE - Double Shielding

RG-142B / U



Material And Diameter

Connector parts	Material	Diameter
Inner Conductor	Steel, Copper + Silver plated	0.94 mm (.037 inch)
Dielectric	PTFE (Polytetrafluoroethylene)	2.95 mm (.116 inch)
First Outer Shield	Copper, Silver plated	3.59 mm (.141 inch)
Second Outer Shield	Copper, Silver plated	4.22 mm (.166 inch)
Jacket	FEP (Fluorinated ethylene propylene)	4.95 mm (.195 inch)

Electrical Data

Impedance	50 $\Omega \pm 2$
Frequency	DC to 8 GHz
Capacitance	97 pF/m
Velocity of signal propagation	70 %
Signal delay	4.70 ns/m
Insulation resistance	$\geq 1 \times 10^8$ M Ω /m
Screening effectiveness	≥ 85 dB (up to 6 GHz)
Operating Voltage	≤ 2.5 kVrms (@ sea level)

Mechanical Data

Weight	65 g/m
Min. bending radius	30 mm (Static)
	50 mm (Dynamic)

Environmental Data

Temperature range	-65°C to +165°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	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	1.18	0.36	200
8	1.43	0.44	150