

Flexible Coaxial Cable
50 Ω - PTFE - Single Shielding

RG-178B/U



Material And Diameter

Connector parts	Material	Diameter
Inner Conductor	Steel, Copper + Silver plated (Stranded)	7/0.102 mm
Dielectric	PTFE (Polytetrafluoroethylene)	0.86 ± 0.05 mm
Outer Shield	Copper, Silver plated	1.30 ± 0.05 mm
Jacket	FEP (Fluorinated ethylene propylene)	1.83 ± 0.05 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	≥ 60 dB (up to 1 GHz)
Operating voltage	≤ 1.5 kVrms (@ sea level)

Mechanical Data

Weight	8.0 g/m
Min. bending radius	10 mm (Static)

Environmental Data

Temperature range	-65°C to +150°C
RoHS (2011/65/EU)	compliant

Typical Attenuation

Frequency (GHz)	Typical Attenuation (dB/m) @ 20°C sea level	Typical Attenuation (dB/ft) @ 20°C sea level	Max. CW power (Watt) @ 20°C sea level
0.1	0.58	0.18	225
0.4	1.05	0.32	115
0.9	1.58	0.48	72
1	1.68	0.51	68
1.8	2.24	0.68	47
2.4	2.59	0.79	40
3	2.91	0.89	34
6	4.13	1.26	23