

Technical Data Sheet

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)	O.31 mm
Dielectric	PTFE (Polytetrafluoroethylene)	0.84 mm
Outer Shield	Copper, Silver plated	1.35 mm
Jacket	FEP (Fluorinated ethylene propylene)	1.80 mm

Electrical Data

Impedance $50 \Omega \pm 2$ DC to 6 GHz Frequency Capacitance 95 pF/m Velocity of signal propagation 70 % 4.7 ns/m Signal delay $\geq 1 \times 10^8 M\Omega/m$ Insulation resistance \geq 40 dB (up to 1 GHz) Screening effectiveness Operating voltage ≤ 0.5 kVrms (@ sea level)

Mechanical Data

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

Environmental Data

Temperature range $-65\,^{\circ}\text{C}$ to $+165\,^{\circ}\text{C}$ 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	0.58	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
5	3.76	1.15	26
6	4.13	1.26	23

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

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