

Non magnetic Flexible Coaxial Cable
50 Ω - PTFE - Single Shielding

RG-178-C



Material And Diameter

Connector parts	Material	Diameter
Inner Conductor	Copper, Silver plated	0.31 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 Ω ± 2
Frequency	DC to 6 GHz
Capacitance	95 pF/m
Velocity of signal propagation	70 %
Signal delay	4.7 ns/m
Insulation resistance	≥ 1 x 10 ⁸ MΩ/m
Screening effectiveness	≥ 40 dB (up to 1 GHz)
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°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	0.58	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

Additional Information

MIL reference MIL-C-17/93