

Technical Data Sheet

Coaxial Cable 50 Ω - PTFE - Handformable Microwave Cable

RSF-141-CU



Material And Diameter

Connector parts	Material	Diameter
Inner Conductor	Copper, Silver plated (SPC)	$0.94 \pm 0.01 \text{mm}$
Dielectric	PTFE (Polytetrafluoroethylene)	-
Outer Shield	Copper, Tin plated	3.50 ± 0.05 mm

Electrical Data

Impedance $50 \Omega \pm 2$ DC to 18 GHz Frequency Capacitance 98 pF/m Velocity of signal propagation $70 \pm 0.7 \%$ Signal delay 4.7 ns/m Insulation resistance $\geq 1 \times 10^8 M\Omega/m$ Screening effectiveness \geq 100 dB (up to 1 GHz) Voltage Withstanding (AC) ≤ 3 kVrms (@ sea level, 1 min.)

Mechanical Data

Weight 41 g/m Min. bending radius 8 mm

Environmental Data

Operating temperature $-65\,^{\circ}\text{C}$ to $+150\,^{\circ}\text{C}$ 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
0.5	0.27	0.08	790
1	0.41	0.12	526
2	0.62	0.19	351
3	0.78	0.24	277
5	1.05	0.32	205
10	1.58	0.48	137
18	2.22	0.68	97

The facts and	figures herein are carefully compiled to the best of our
knowledge, b	ut they are intended for general informational purposes only.
In the effort to	improve our products, we reserve the right to make changes
judged to be r	ecessary.

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