



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 ± 0.01 mm
Dielectric	PTFE (Polytetrafluoroethylene)	-
Outer Shield	Copper, Tin plated	3.50 ± 0.05 mm

Electrical Data

Impedance	50 Ω ± 2
Frequency	DC to 18 GHz
Capacitance	98 pF/m
Velocity of signal propagation	70 ± 0.7 %
Signal delay	4.7 ns/m
Insulation resistance	≥ 1 × 10 ⁸ MΩ/m
Screening effectiveness	≥ 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°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
0.5	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