



Coaxial Cable
50 Ω - PTFE - Handformable Microwave Cable

RSF-141



Material And Diameter

Connector parts	Material	Diameter
Inner Conductor	Steel, Copper+Silver plated (SPCW)	0.92 mm [0.0362 in]
Dielectric	PTFE (Polytetrafluoroethylene)	-
Outer Shield	Copper, Tin plated	3.58 mm [0.1409 in]

Electrical Data

Impedance	50 Ω ± 2
Frequency	DC to 26.5 GHz
Capacitance	95.2 pF/m
Velocity of signal propagation	70 %
Signal delay	4.7 ns/m
Insulation resistance	≥ 1 × 10 ⁸ MΩ/m
Screening effectiveness	≥ 100 dB (up to 18 GHz)
Operating voltage	≤ 1.9 kVrms (@ sea level)

Mechanical Data

Weight	43 g/m
Min. bending radius	9.53 mm

Environmental Data

Temperature range	-40°C to +120°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
0.5	0.30	0.09	491.7
1	0.46	0.14	343.2
5	1.12	0.34	145.5
10	1.64	0.50	99.1
18	2.33	0.71	70.8
26.5	2.95	0.90	56.4