



Coaxial Cable
50 Ω - PTFE - Handformable Microwave Cable

RSF-085



Material And Diameter

Connector parts	Material	Diameter
Inner Conductor	Steel, Copper+Silver plated (SPCW)	0.53 mm [0.0209 in]
Dielectric	PTFE (Polytetrafluoroethylene)	-
Outer Shield	Copper, Tin plated	2.17 mm [0.0854 in]

Electrical Data

Impedance	50 Ω ± 2
Frequency	DC to 50 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	≤ 1.5 kVrms (@ sea level)

Mechanical Data

Weight	15 g/m
Min. bending radius	3.2 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) @ 25°C sea level
0.5	0.56	0.17	201.5
1	0.79	0.24	141.4
5	1.87	0.57	61.3
10	2.72	0.83	42.4
18	3.77	1.15	30.8
26.5	4.72	1.44	24.9
40	6.00	1.83	19.7
50	6.84	2.08	17.3