



Coaxial Cable
50 Ω - PTFE - Handformable Microwave Cable

RSF-047-FEP



Material And Diameter

Connector parts	Material	Diameter
Inner Conductor	Steel, Copper+Silver plated (SPCW)	0.287 mm [0.0113 in]
Dielectric	PTFE (Polytetrafluoroethylene)	-
Outer Shield	Copper, Tin plated	1.14 mm [0.0449 in]
Jacket	FEP (Fluorinated ethylene propylene)	1.44 mm [0.0567 in]

Electrical Data

Impedance	50 Ω ± 2
Frequency	DC to 65 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	≤ 1.0 kVrms (@ sea level)

Mechanical Data

Weight	7.9 g/m
Min. bending radius	1.7 mm

Environmental Data

Temperature range	-65°C to +150°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	0.98	0.30	73
1	1.38	0.42	51.4
5	3.22	0.98	22.6
10	4.66	1.42	15.8
18	6.33	1.93	11.6
26.5	7.84	2.39	9.4
40	9.84	3.00	7.6
50	11.15	3.40	6.7
65	12.93	3.94	5.8