

Semi-Form Coaxial Cable
RSF-085-FEP

Material And Diameter

Connector parts	Material	Diameter
Inner Conductor	Steel, Copper + Silver plated (Solid)	0.53 mm (.021 inch)
Dielectric	PTFE (Polytetrafluoroethylene)	1.65 mm (.065 inch)
Braid	Copper, Tin plated	2.18 mm (.086 inch)
Jacket	FEP (Fluorinated ethylene propylene)	2.50 mm (.098 inch)

Electrical Data

Impedance	50 Ω
Frequency	DC to 40 GHz
Capacitance	96.1 pF/m
Velocity of signal propagation	70 %
Signal delay	4.72 ns/m
Insulation resistance	$\geq 1 \times 10^8$ M Ω /m
Screening effectiveness	≥ 90 dB (up to 18 GHz)
Operating Voltage Max. (Vrms @ 60 Hz)	≤ 1.9 kVrms (@ sea level)

Mechanical Data

Weight	18 g/m
Min. bending radius	3.2 mm

Environmental Data

Temperature range	-40°C to +120°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	0.56	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