

Semi-Form Coaxial Cable

**RSF-250-FEP**



**Material And Diameter**

Connector parts	Material	Diameter
Inner Conductor	Copper, Silver plated	1.65 mm (.065 inch)
Dielectric	PTFE (Polytetrafluoroethylene)	5.25 mm (.207 inch)
Braid	Copper, Tin plated	6.30 mm (.248 inch)
Jacket	FEP (Fluorinated ethylene propylene), Blue	6.85 mm (.270 inch)

**Electrical Data**

Impedance	50 $\Omega$
Frequency	DC to 18 GHz
Capacitance	98 pF/m
Velocity of signal propagation	70 %
Signal delay	4.70 ns/m
Insulation resistance	$\geq 1 \times 10^8$ M $\Omega$ /m
Screening effectiveness	$\geq 100$ dB (up to 18 GHz)
Operating Voltage Max. ( Vrms @ 60 Hz )	$\leq 3$ kVrms (@ sea level)

**Mechanical Data**

Weight	138 g/m
Min. bending radius	30 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	0.16	0.05	1831
1	0.24	0.07	1188
2	0.37	0.11	771
3	0.48	0.16	598
5	0.65	0.20	435
10	0.99	0.30	282
18	1.42	0.43	196