



Coaxial Cable
50 Ω - PTFE - Semi Flex FEP Microwave Cable

RSF-085-FEP



DIMENSIONS

	UNITS	RSF-085-FEP
Center Conductor Diameter	in	0.0201
	mm	0.5105 ± 0.0015
Dielectric	in	0.066 ± 0.038
	mm	1.676 ± 0.038
Outer Conductor Diameter	in	0.085 ± 0.003
	mm	2.159 ± 0.09
Jacket Diameter	in	0.106 ± 0.003
	mm	2.692 ± 0.076

MATERIALS

Center Conductor	Silver plated copper clad steel (SPCW)
Dielectric	PTFE
Outer Conductor	Copper Braid
Outer Conductor Plating	Tin-Dipped Braid
Jacket	FEP
Rohs Compliant	YES

MECHANICAL DATA *

	UNITS	RSF-085-FEP
Outer Conductor Integrity Temp.	°C	225.0
Operating Temperature (Max.)	°C	200.0
Temperature Range	°C	-55 to +200
Inside Bend Radius (Minimum)	in	0.125
	mm	3.175
Weight	lbs / 100ft	1.40
	kg / 100m	2.10

ELECTRICAL DATA *

	UNITS	RSF-085-FEP
Impedance	ohm	50
Capacitance	pf / ft	29
	pf / m	95.2
Corona Extinction Voltage	VRMS @ 60 Hz	1600
Voltage Withstanding	VRMS @ 60 Hz	4800
Cutoff Frequency	GHz	61.0
Attenuation (dB / 100 Ft Typical)	0.5 GHz	17.2
	1.0 GHz	24.5
	5.0 GHz	57.1
	10.0 GHz	83.0
	18.0 GHz	115.3
	26.5 GHz	144.2
Attenuation (dB / 100 M Typical)	40.0 GHz	183.1
	50.0 GHz	208.6
Power (Watts Cw @ 20 °C, Maximum)	0.5 GHz	56.4
	1.0 GHz	80.4
	5.0 GHz	187.3
	10.0 GHz	272.2
	18.0 GHz	378.2
	26.5 GHz	473.0
Power (Watts Cw @ 20 °C, Maximum)	40.0 GHz	600.6
	50.0 GHz	684.2
Power (Watts Cw @ 20 °C, Maximum)	0.5 GHz	200.5
	1.0 GHz	141.2
	5.0 GHz	61.1
	10.0 GHz	42.2
	18.0 GHz	30.6
	26.5 GHz	24.7
Power (Watts Cw @ 20 °C, Maximum)	40.0 GHz	19.5
	50.0 GHz	17.1

* Applicable at room temperature. Contact factory for performance over temperature range.