



RF Series



Center Conductor
Silver Plated
Copper

Dielectric
PTFE

Foil
Silver Plated
Copper

Braid
Tin Plated Copper
RF085 - (0.085", 2.15 mm)
RF141 - (0.141", 3.58 mm)
RF250 - (0.230", 5.84 mm)
RF325 - (0.325", 8.25 mm)

	RF085	RF141	RF250	RF325
Electrical Characteristics				
Impedance	50 +/- 2Ω	50 +/- 2Ω	50 +/- 2Ω	50 +/- 2Ω
Cut Off Frequency (cable only, max)	61 GHz	33 GHz	18 GHz	10 GHz
Capacitance	28.6 pF/ft.	28.6 pF/ft.	28.6 pF/ft.	28.6 pF/ft.
Velocity of Propagation	71%	71%	71%	71%
Time Delay	1.43 ns/ft.	1.43 ns/ft.	1.43 ns/ft.	1.43 ns/ft.
Shielding Effectiveness up to 18GHz	>90 dB	>90 dB	>90 dB	>90 dB
Cable Attenuation Factors (K1, K2) *	18.8, 0.86	10.6, 0.86	6.4, 0.95	5.3, 0.43
Power Handling	See Chart	See Chart	See Chart	See Chart

Mechanical Characteristics:

Weight	0.19 oz/ft (17.86 g/m)	0.19 oz/ft (17.86 g/m)	1.06 oz/ft (98.2 g/m)	1.24 oz/ft (115 g/m)
Static Bend Radius	0.25" (6.35 mm)	0.375" (9.53 mm)	0.375" (95.25mm)	0.625" (15.87mm)
Dynamic Bend Radius	0.375" (95.25mm)	0.75" (19.05 mm)	1.0" (25.4mm)	2.25" (57.15mm)

Environmental Characteristics:

Operating Temperature Range ¹	-65°C to +150°C
RoHS 3 (EU 2015/863)	Yes

FEP Jacket available upon request

*Attenuation = $K_1\sqrt{f} + K_2f$ (cable only)



RF Series

Attenuation (max)

RF085

GHz	dB/ft.	dB/m	Power(W) @ 20°C @ Sea Level
0.5	0.14	0.45	270
1	0.20	0.65	220
2	0.28	0.93	200
4	0.41	1.35	120
6	0.51	1.68	85
8	0.60	1.97	75
10	0.68	2.23	70
12	0.75	2.48	65
14	0.82	2.70	60
16	0.89	2.92	55
18	0.95	3.12	50

RF141

GHz	dB/ft.	dB/m	Power(W) @ 20°C @ Sea Level
0.5	0.078	0.226	635
1	0.11	0.38	430
2	0.17	0.55	291
4	0.25	0.81	197
6	0.31	1.02	157
8	0.37	1.21	133
10	0.42	1.38	118
12	0.47	1.54	106
14	0.52	1.70	97
16	0.56	1.84	90
18	0.60	1.98	84

RF250

GHz	dB/ft.	dB/m	Power(W) @ 20°C @ Sea Level
0.5	0.05	0.16	1615
1	0.07	0.23	1033
2	0.11	0.36	661
4	0.17	0.56	423
6	0.22	0.72	326
8	0.26	0.85	271
10	0.29	0.95	235
12	0.34	1.12	209
14	0.37	1.21	189
16	0.41	1.35	173
18	0.44	1.44	161

RF325

GHz	dB/ft.	dB/m	Power(W) @ 20°C @ Sea Level
0.5	0.04	0.13	1727
1	0.06	0.19	1142
2	0.08	0.27	755
4	0.12	0.40	499
6	0.16	0.51	392
8	0.18	0.60	330
10	0.21	0.69	289

