



RF085 Series Operating Up to 62 GHz



Center Conductor
Silver Plated
Copper

Dielectric
PTFE

Foil
Silver Plated
Copper

Braid
Tin Plated
Copper
(2.15mm 0.085")

RF085

Electrical Characteristics

Impedance	50 +/- 2Ω
Cut Off Frequency (cable only, max)	62 GHz
Capacitance	29 pF/ft.
Velocity of Propagation	71%
Time Delay	1.40 ns/ft.
Shielding Effectiveness up to 18GHz	>90 dB
Power Handling	See Chart

Mechanical Characteristics:

Weight	.17 oz/ft (16g/m)
Minimum Bend Radius inches (mm)	.125" (3.175mm)

Environmental Characteristics:

Operating Temperature Range ¹	-65°C to +165°C
RoHS (2002/95/EC)	Available on request

VSWR for assemblies with two straight connectors 1.35:1 to 18 GHz

FEP Jacket available – Cable part number TPRFEP085



RF085 Series (Continued)

Insertion Loss

GHz	RF085		Power(W) @ 20°C @ Sea Level
	dB/ft.	dB/m	
0.04	0.12	0.39	270
1	0.19	0.63	220
2	0.28	0.92	200
4	0.41	1.34	120
6	0.51	1.68	85
8	0.61	1.98	75
10	0.69	2.26	70
12	0.77	2.51	65
14	0.84	2.75	60
16	0.91	2.98	55
18	0.98	3.20	50
20	1.04	3.42	45
22	1.10	3.62	43
24	1.17	3.82	42
26	1.23	4.02	40
28	1.28	4.21	39
30	1.34	4.40	39
32	1.40	4.58	37
34	1.45	4.76	36
36	1.51	4.94	35
38	1.56	5.11	32
40	1.61	5.28	30
42	1.66	5.45	29
44	1.71	5.62	28
46	1.76	5.79	27
48	1.81	5.95	26
50	1.86	6.11	25
52	1.91	6.27	25
54	1.96	6.43	25
56	2.01	6.59	23
58	2.06	6.74	23
60	2.10	6.90	22
62	2.15	7.05	22

