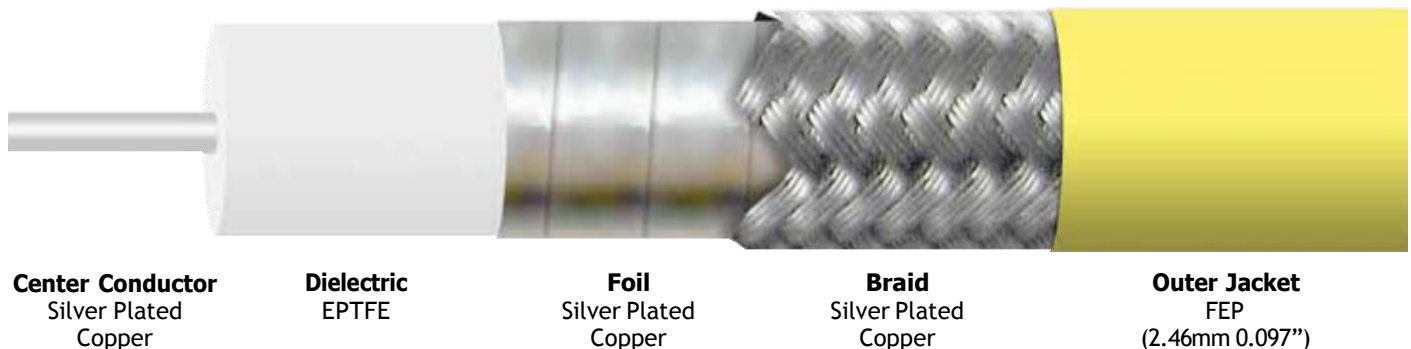


Product Data Sheet

1251 Low Loss Flexible Microwave Cable

125 Series Operating Up to 70 GHz



Electrical Characteristics

Impedance	50 +/- 2%
Cut Off Frequency (cable only, max)	70GHz
Capacitance	27 pF/ft.
Velocity of Propagation	75%
Time Delay	1.35 ns/ft.
Shielding Effectiveness up to 18GHz	>90 dB
Power Handling	See Chart

Mechanical Characteristics:

Weight	0.2 oz/ft (5.70g/m)
Minimum Bend Radius inches (mm)	200" (5mm)

Environmental Characteristics:

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

¹+200°C available on request

VSWR for assemblies with two straight connectors

1.35 : 1 to 40 GHz

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VSWR for assemblies with two straight connectors 1.35 : 1 to 40 GHz

125 Series

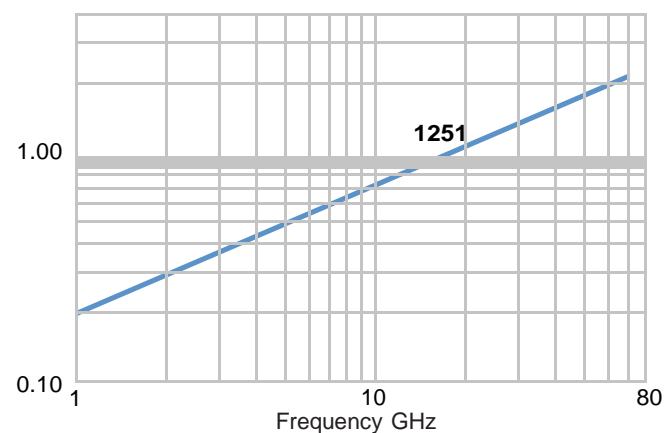
Insertion Loss

1251

GHz	dB/ft.	dB/m	Power(W) @ 20°C @ Sea Level
0.04	0.12	0.41	270
1	0.20	0.65	220
2	0.28	0.93	200
4	0.41	1.35	120
6	0.51	1.69	85
8	0.60	1.98	75
10	0.68	2.24	70
12	0.76	2.49	65
14	0.83	2.71	60
16	0.89	2.93	55
18	0.96	3.14	50
20	1.02	3.34	45
22	1.08	3.53	43
24	1.14	3.72	42
26	1.19	3.90	40
28	1.25	4.08	39
30	1.30	4.26	38
32	1.35	4.43	37
34	1.40	4.59	36
36	1.45	4.76	35
38	1.50	4.92	32
40	1.55	5.08	30
42	1.59	5.23	29
44	1.64	5.38	28
46	1.69	5.53	27
48	1.73	5.68	26
50	1.78	5.83	25
52	1.82	5.98	25
54	1.87	6.12	25
56	1.91	6.26	23
58	1.95	6.36	23
60	2.00	6.52	22
62	2.04	6.65	22
64	2.08	6.78	22
65	2.10	6.84	21
68	2.12	6.95	20
70	2.14	7.02	19

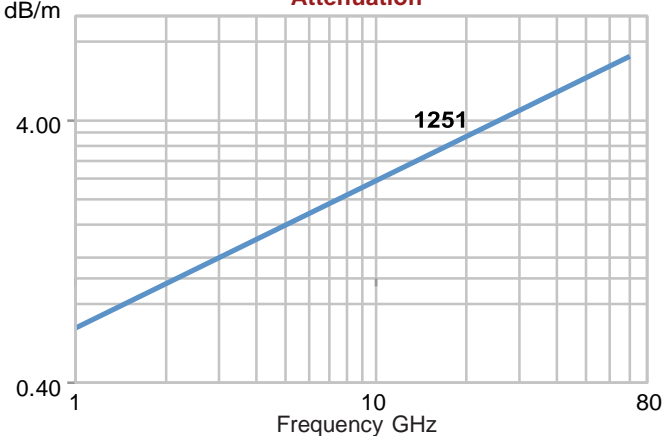
dB/ft

Attenuation



dB/m

Attenuation



Watts

Max RF Power at 20°C at Sea Level

