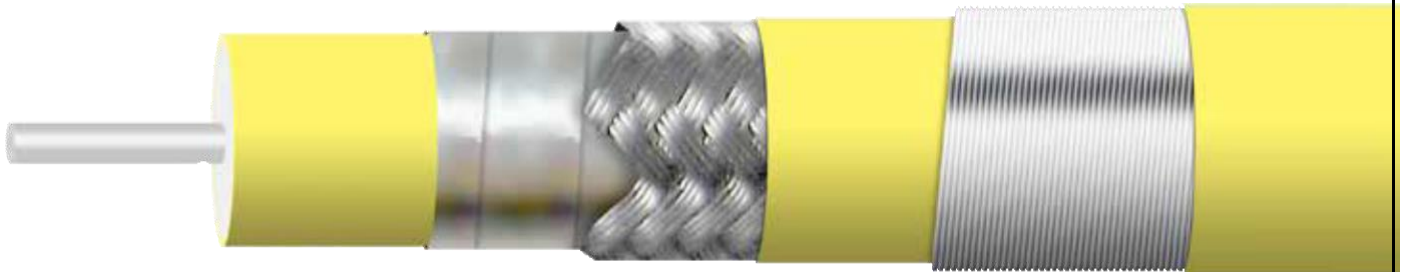


Product Data Sheet

150 Series Low Loss Flexible Microwave Cable

150 Series Operating Up to 40 GHz



Center Conductor	Dielectric	Foil	Braid	Outer Jacket	Copper (3.65mm 0.144")
Silver Plated Copper 1501/1503 Solid 1506/1508 Stranded	EPTFE	Silver Plated	Silver Plated	FEP Copper	

	1501	1506	1503	1508
Electrical Characteristics				
Impedance	50+/-2^	50+/-2^	50+/-2^	50+/-2^
Cut Off Frequency (cable only, max)	40GHz	40GHz	40GHz	40GHz
Capacitance	24 pF/ft.	26 pF/ft.	24 pF/ft.	26 pF/ft.
Velocity of Propagation	83%	83%	83%	83%
Time Delay	1.22 ns/ft.	1.22 ns/ft.	1.22 ns/ft.	1.22 ns/ft.
Shielding Effectiveness up to 18GHz	>90 dB	>90 dB	>90 dB	>90 dB
Power Handling	See Chart	See Chart	See Chart	See Chart
Mechanical Characteristics:				
Weight	.36 oz/ft. (33g/m)	.34 oz/ft. (31g/m)	.75 oz/ft. (70g/m)	.73 oz/ft. (68g/m)
Minimum Bend Radius inches (mm)	0.5" (12.7mm)	0.5" (12.7mm)	0.5" (12.7mm)	0.5" (12.7mm)
Environmental Characteristics:				
Operating Temperature Range ¹	-65°C to +165°C	-65°C to +165°C	-65°C to +165°C	-65°C to +165°C
RoHS (2002/95/E)	Compliant	Compliant	Compliant	Compliant

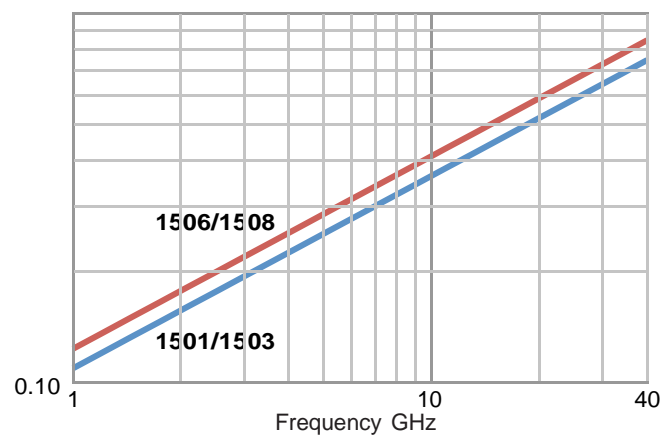
150 Series

Insertion Loss

GHz	1501/1503			1506/1508		
	dB/ft.	dB/m	Power(W) @ 20°C @ Sea Level	dB/ft.	dB/m	Power(W) @ 20°C @ Sea Level
0.04	0.07	0.23	600	0.08	0.26	536
1	0.11	0.36	500	0.12	0.41	446
2	0.16	0.51	370	0.18	0.58	330
4	0.22	0.73	260	0.25	0.82	232
6	0.27	0.90	210	0.31	1.01	188
8	0.32	1.04	180	0.36	1.18	161
10	0.36	1.17	160	0.40	1.32	143
12	0.39	1.29	150	0.44	1.45	134
14	0.43	1.40	140	0.48	1.58	125
16	0.46	1.50	125	0.52	1.69	112
18	0.49	1.60	120	0.55	1.80	107
20	0.51	1.69	115	0.58	1.91	103
22	0.54	1.78	110	0.61	2.01	98
24	0.57	1.86	105	0.64	2.10	94
26	0.59	1.94	100	0.67	2.20	89
28	0.62	2.02	99	0.70	2.29	88
30	0.64	2.10	97	0.72	2.37	87
32	0.66	2.17	95	0.75	2.46	85
34	0.69	2.25	90	0.77	2.54	80
36	0.71	2.32	85	0.80	2.62	76
38	0.73	2.39	80	0.82	2.70	71
40	0.75	2.46	75	0.85	2.78	67

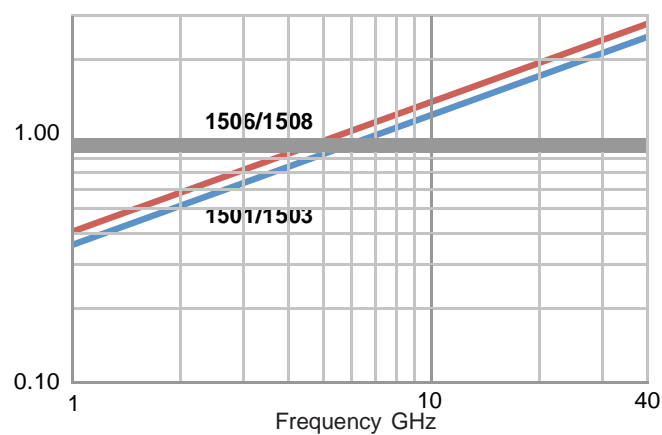
dB/ft
1.00

Attenuation



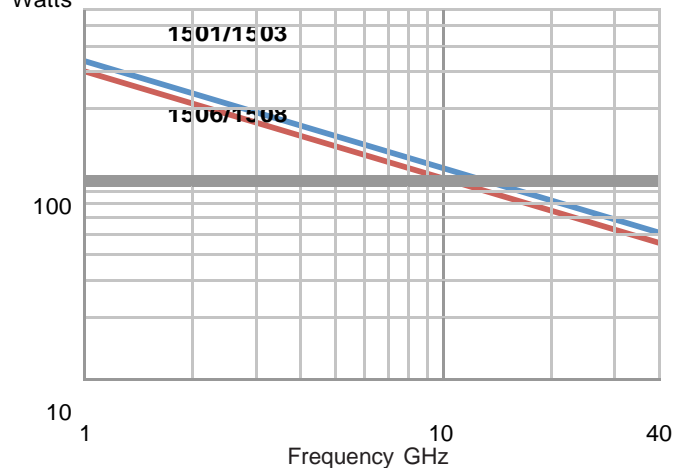
dB/m

Attenuation



Watts

Max RF Power at 20°C at Sea Level





Products