

8 3/16" 50 Ohm Rigid Coaxial Transmission Line, TV Ratings and Efficiency in Percent

CH #	Freq. MHz	ATTEN. in dB/100 ft	Average Power (Kilowatts)	250 ft	500 ft	750 ft	1000 ft	1250 ft	1500 ft	1750 ft	2000 ft
2	54	0.02658	410.631	98.48	96.99	95.51	94.06	92.63	91.23	89.84	88.48
3	60	0.02802	389.559	98.40	96.83	95.28	93.75	92.25	90.78	89.32	87.89
4	66	0.02939	371.430	98.32	96.67	95.05	93.46	91.89	90.35	88.83	87.34
5	76	0.03154	346.132	98.20	96.43	94.70	93.00	91.32	89.68	88.07	86.48
6	82	0.03276	333.228	98.13	96.30	94.50	92.73	91.00	89.30	87.63	86.00
7	174	0.03394	228.757	98.07	96.17	94.31	92.48	90.69	88.94	87.22	85.53
8	180	0.03395	224.912	98.06	96.17	94.30	92.48	90.69	88.93	87.21	85.52
9	186	0.03399	221.255	98.06	96.16	94.30	92.47	90.68	88.92	87.20	85.51
10	192	0.03403	217.770	98.06	96.16	94.29	92.46	90.67	88.91	87.19	85.49
11	198	0.03407	214.445	98.06	96.15	94.29	92.45	90.66	88.90	87.17	85.48
12	204	0.03411	211.268	98.06	96.15	94.28	92.45	90.65	88.89	87.16	85.46
13	210	0.03415	208.228	98.05	96.14	94.27	92.44	90.64	88.88	87.15	85.45
14	470	0.03419	139.187	98.05	96.14	94.27	92.43	90.63	88.86	87.13	85.43
15	476	0.03422	138.307	98.05	96.14	94.26	92.42	90.62	88.85	87.12	85.42
16	482	0.03426	137.444	98.05	96.13	94.25	92.41	90.61	88.84	87.10	85.40
17	488	0.03430	136.596	98.04	96.13	94.25	92.41	90.60	88.83	87.09	85.39
18	494	0.03434	135.764	98.04	96.12	94.24	92.40	90.59	88.82	87.08	85.37
19	500	0.03438	134.947	98.04	96.12	94.24	92.39	90.58	88.80	87.06	85.36
20	506	0.03441	134.145	98.04	96.12	94.23	92.38	90.57	88.79	87.05	85.34
21	512	0.03445	133.356	98.04	96.11	94.22	92.37	90.56	88.78	87.04	85.33
22	518	0.03449	132.582	98.03	96.11	94.22	92.37	90.55	88.77	87.02	85.31
23	524	0.03453	131.821	98.03	96.10	94.21	92.36	90.54	88.76	87.01	85.30
24	530	0.03457	131.072	98.03	96.10	94.21	92.35	90.53	88.75	87.00	85.28
25	536	0.03460	130.337	98.03	96.09	94.20	92.34	90.52	88.73	86.98	85.27
26	542	0.03464	129.613	98.03	96.09	94.19	92.33	90.51	88.72	86.97	85.25
27	548	0.03468	128.902	98.02	96.09	94.19	92.33	90.50	88.71	86.96	85.24
28	554	0.03472	128.202	98.02	96.08	94.18	92.32	90.49	88.70	86.95	85.22
29	560	0.03475	127.513	98.02	96.08	94.17	92.31	90.48	88.69	86.93	85.21
30	566	0.03479	126.835	98.02	96.07	94.17	92.30	90.47	88.68	86.92	85.20
31	572	0.03483	126.168	98.01	96.07	94.16	92.29	90.46	88.67	86.91	85.18
32	578	0.03487	125.512	98.01	96.07	94.16	92.29	90.45	88.65	86.89	85.17
33	584	0.03490	124.865	98.01	96.06	94.15	92.28	90.44	88.64	86.88	85.15
34	590	0.03494	124.229	98.01	96.06	94.14	92.27	90.43	88.63	86.87	85.14
35	596	0.03498	123.602	98.01	96.05	94.14	92.26	90.42	88.62	86.85	85.12
36	602	0.03502	122.984	98.00	96.05	94.13	92.25	90.41	88.61	86.84	85.11
37	608	0.03505	122.376	98.00	96.04	94.13	92.25	90.40	88.60	86.83	85.09
38	614	0.03509	121.777	98.00	96.04	94.12	92.24	90.39	88.59	86.81	85.08

Standard Conditions:

Attenuation: Ambient Temperature 20°C (68°F), Dry Air, Sea Level Atmospheric Pressure, VSWR 1.0, OKW

Average Power: Ambient Temperature 40°C (104°F), Inner Conductor Temperature 100°C (212°F), Dry Air, Sea Level Atmospheric Pressure, VSWR 1.0