

## 6 1/8" 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	0.036	243.099	97.97	95.99	94.04	92.13	90.27	88.44	86.64	84.89
3	60	0.038	230.624	97.86	95.77	93.73	91.73	89.77	87.85	85.97	84.14
4	66	0.039	219.891	97.76	95.57	93.43	91.34	89.30	87.30	85.34	83.43
5	76	0.042	204.914	97.60	95.26	92.97	90.74	88.56	86.43	84.36	82.33
6	82	0.044	197.275	97.51	95.08	92.71	90.40	88.14	85.95	83.80	81.72
7	174	0.064	135.427	96.39	92.91	89.56	86.32	83.21	80.20	77.31	74.52
8	180	0.065	133.151	96.33	92.79	89.39	86.11	82.95	79.90	76.97	74.14
9	186	0.066	130.985	96.27	92.68	89.22	85.89	82.69	79.61	76.64	73.78
10	192	0.067	128.923	96.21	92.57	89.06	85.69	82.44	79.32	76.31	73.42
11	198	0.068	126.954	96.15	92.46	88.90	85.48	82.19	79.03	75.99	73.07
12	204	0.069	125.073	96.10	92.35	88.74	85.28	81.95	78.75	75.68	72.73
13	210	0.070	123.273	96.04	92.24	88.59	85.08	81.71	78.48	75.37	72.39
14	470	0.105	82.401	94.14	88.62	83.42	78.53	73.92	69.59	65.51	61.67
15	476	0.106	81.880	94.10	88.55	83.32	78.41	73.78	69.43	65.33	61.48
16	482	0.106	81.368	94.06	88.48	83.23	78.29	73.64	69.27	65.16	61.29
17	488	0.107	80.867	94.03	88.41	83.13	78.17	73.50	69.11	64.99	61.10
18	494	0.108	80.374	93.99	88.35	83.04	78.05	73.36	68.96	64.81	60.92
19	500	0.108	79.890	93.96	88.28	82.95	77.93	73.23	68.80	64.64	60.74
20	506	0.109	79.415	93.92	88.21	82.85	77.82	73.09	68.65	64.48	60.56
21	512	0.110	78.949	93.89	88.15	82.76	77.70	72.95	68.49	64.31	60.38
22	518	0.110	78.490	93.85	88.08	82.67	77.59	72.82	68.34	64.14	60.20
23	524	0.111	78.039	93.82	88.02	82.58	77.48	72.69	68.19	63.98	60.02
24	530	0.111	77.596	93.78	87.96	82.49	77.36	72.55	68.04	63.82	59.85
25	536	0.112	77.161	93.75	87.89	82.40	77.25	72.42	67.90	63.65	59.68
26	542	0.113	76.733	93.72	87.83	82.31	77.14	72.29	67.75	63.49	59.50
27	548	0.113	76.311	93.68	87.77	82.22	77.03	72.16	67.60	63.33	59.33
28	554	0.114	75.897	93.65	87.70	82.13	76.92	72.03	67.46	63.18	59.17
29	560	0.115	75.489	93.62	87.64	82.05	76.81	71.91	67.32	63.02	59.00
30	566	0.115	75.088	93.58	87.58	81.96	76.70	71.78	67.18	62.87	58.83
31	572	0.116	74.693	93.55	87.52	81.87	76.59	71.65	67.03	62.71	58.67
32	578	0.116	74.305	93.52	87.46	81.79	76.49	71.53	66.89	62.56	58.50
33	584	0.117	73.922	93.49	87.40	81.70	76.38	71.41	66.75	62.41	58.34
34	590	0.118	73.545	93.45	87.34	81.62	76.28	71.28	66.62	62.26	58.18
35	596	0.118	73.174	93.42	87.28	81.54	76.17	71.16	66.48	62.11	58.02

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36	602	0.119	72.808	93.39	87.22	81.45	76.07	71.04	66.34	61.96	57.86
37	608	0.119	72.448	93.36	87.16	81.37	75.96	70.92	66.21	61.81	57.71
38	614	0.120	72.093	93.33	87.10	81.29	75.86	70.80	66.07	61.66	57.55
39	620	0.121	71.744	93.30	87.04	81.20	75.76	70.68	65.94	61.52	57.39
40	626	0.121	71.399	93.26	86.98	81.12	75.66	70.56	65.81	61.38	57.24
41	632	0.122	71.059	93.23	86.92	81.04	75.56	70.44	65.68	61.23	57.09
42	638	0.122	70.724	93.20	86.87	80.96	75.46	70.33	65.55	61.09	56.94
43	644	0.123	70.394	93.17	86.81	80.88	75.36	70.21	65.42	60.95	56.79
44	650	0.123	70.068	93.14	86.75	80.80	75.26	70.10	65.29	60.81	56.64
45	656	0.124	69.747	93.11	86.69	80.72	75.16	69.98	65.16	60.67	56.49
46	662	0.125	69.431	93.08	86.64	80.64	75.06	69.87	65.03	60.53	56.34
47	668	0.125	69.118	93.05	86.58	80.56	74.96	69.75	64.91	60.39	56.20
48	674	0.126	68.810	93.02	86.53	80.49	74.87	69.64	64.78	60.26	56.05
49	680	0.126	68.505	92.99	86.47	80.41	74.77	69.53	64.66	60.12	55.91
50	686	0.127	68.205	92.96	86.42	80.33	74.68	69.42	64.53	59.99	55.77
51	692	0.127	67.909	92.93	86.36	80.25	74.58	69.31	64.41	59.85	55.62
52	698	0.128	67.616	92.90	86.31	80.18	74.49	69.20	64.29	59.72	55.48
53	704	0.128	67.328	92.87	86.25	80.10	74.39	69.09	64.16	59.59	55.34
54	710	0.129	67.042	92.84	86.20	80.03	74.30	68.98	64.04	59.46	55.20
55	716	0.130	66.761	92.81	86.14	79.95	74.21	68.87	63.92	59.33	55.07
56	722	0.130	66.483	92.78	86.09	79.88	74.11	68.77	63.80	59.20	54.93
57	728	0.131	66.208	92.76	86.04	79.80	74.02	68.66	63.68	59.07	54.79
58	734	0.131	65.937	92.73	85.98	79.73	73.93	68.55	63.57	58.94	54.66
59	740	0.132	65.669	92.70	85.93	79.66	73.84	68.45	63.45	58.82	54.52
60	746	0.132	65.405	92.67	85.88	79.58	73.75	68.34	63.33	58.69	54.39
61	752	0.133	65.143	92.64	85.82	79.51	73.66	68.24	63.22	58.56	54.26
62	758	0.133	64.885	92.61	85.77	79.44	73.57	68.13	63.10	58.44	54.12
63	764	0.134	64.630	92.59	85.72	79.36	73.48	68.03	62.99	58.32	53.99
64	770	0.134	64.377	92.56	85.67	79.29	73.39	67.93	62.87	58.19	53.86
65	776	0.135	64.128	92.53	85.62	79.22	73.30	67.83	62.76	58.07	53.73
66	782	0.135	63.882	92.50	85.57	79.15	73.21	67.72	62.65	57.95	53.60
67	788	0.136	63.638	92.47	85.51	79.08	73.13	67.62	62.53	57.83	53.48
68	794	0.136	63.397	92.45	85.46	79.01	73.04	67.52	62.42	57.71	53.35
69	800	0.137	63.159	92.42	85.41	78.94	72.95	67.42	62.31	57.59	53.22

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