

## 6 1/8" 75 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	0.032	211.687	98.16	96.35	94.58	92.84	91.13	89.45	87.81	86.19
3	60	0.034	200.824	98.06	96.16	94.29	92.47	90.67	88.91	87.19	85.50
4	66	0.036	191.478	97.97	95.98	94.02	92.11	90.24	88.41	86.61	84.85
5	76	0.038	178.437	97.82	95.69	93.60	91.56	89.57	87.61	85.70	83.84
6	82	0.040	171.785	97.74	95.52	93.36	91.25	89.18	87.17	85.19	83.26
7	174	0.058	117.928	96.72	93.55	90.48	87.51	84.64	81.87	79.18	76.58
8	180	0.059	115.946	96.67	93.44	90.33	87.31	84.40	81.59	78.87	76.24
9	186	0.060	114.060	96.61	93.34	90.17	87.12	84.16	81.31	78.56	75.89
10	192	0.061	112.264	96.56	93.23	90.02	86.93	83.93	81.04	78.25	75.56
11	198	0.062	110.550	96.51	93.13	89.88	86.74	83.71	80.78	77.96	75.23
12	204	0.063	108.912	96.45	93.03	89.73	86.55	83.48	80.52	77.67	74.91
13	210	0.064	107.345	96.40	92.93	89.59	86.37	83.26	80.27	77.38	74.60
14	470	0.095	71.753	94.67	89.62	84.84	80.31	76.03	71.98	68.14	64.50
15	476	0.096	71.300	94.63	89.56	84.75	80.20	75.90	71.82	67.97	64.32
16	482	0.096	70.855	94.60	89.49	84.66	80.09	75.77	71.68	67.81	64.14
17	488	0.097	70.418	94.57	89.43	84.57	79.98	75.64	71.53	67.64	63.97
18	494	0.098	69.989	94.54	89.37	84.49	79.87	75.51	71.38	67.48	63.79
19	500	0.098	69.568	94.50	89.31	84.40	79.76	75.38	71.24	67.32	63.62
20	506	0.099	69.154	94.47	89.25	84.32	79.65	75.25	71.09	67.16	63.45
21	512	0.099	68.747	94.44	89.19	84.23	79.55	75.12	70.95	67.00	63.28
22	518	0.100	68.348	94.41	89.13	84.15	79.44	75.00	70.81	66.85	63.11
23	524	0.101	67.956	94.38	89.07	84.06	79.34	74.87	70.66	66.69	62.94
24	530	0.101	67.570	94.35	89.01	83.98	79.23	74.75	70.52	66.54	62.78
25	536	0.102	67.191	94.32	88.95	83.90	79.13	74.63	70.39	66.38	62.61
26	542	0.102	66.818	94.28	88.90	83.81	79.02	74.51	70.25	66.23	62.45
27	548	0.103	66.451	94.25	88.84	83.73	78.92	74.39	70.11	66.08	62.28
28	554	0.103	66.090	94.22	88.78	83.65	78.82	74.27	69.98	65.93	62.12
29	560	0.104	65.735	94.19	88.72	83.57	78.72	74.15	69.84	65.78	61.96
30	566	0.104	65.386	94.16	88.67	83.49	78.62	74.03	69.71	65.64	61.81
31	572	0.105	65.042	94.13	88.61	83.41	78.52	73.91	69.57	65.49	61.65
32	578	0.106	64.703	94.10	88.55	83.33	78.42	73.79	69.44	65.35	61.49
33	584	0.106	64.370	94.07	88.50	83.25	78.32	73.68	69.31	65.20	61.34
34	590	0.107	64.042	94.04	88.44	83.18	78.22	73.56	69.18	65.06	61.19
35	596	0.107	63.719	94.01	88.39	83.10	78.12	73.45	69.05	64.92	61.03

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36	602	0.108	63.401	93.99	88.33	83.02	78.03	73.33	68.92	64.78	60.88
37	608	0.108	63.087	93.96	88.28	82.94	77.93	73.22	68.80	64.64	60.73
38	614	0.109	62.778	93.93	88.22	82.87	77.84	73.11	68.67	64.50	60.58
39	620	0.109	62.473	93.90	88.17	82.79	77.74	73.00	68.54	64.36	60.44
40	626	0.110	62.173	93.87	88.12	82.72	77.65	72.89	68.42	64.23	60.29
41	632	0.110	61.878	93.84	88.06	82.64	77.55	72.78	68.30	64.09	60.14
42	638	0.111	61.586	93.81	88.01	82.57	77.46	72.67	68.17	63.95	60.00
43	644	0.111	61.298	93.79	87.96	82.49	77.37	72.56	68.05	63.82	59.85
44	650	0.112	61.015	93.76	87.91	82.42	77.27	72.45	67.93	63.69	59.71
45	656	0.112	60.735	93.73	87.85	82.34	77.18	72.34	67.81	63.56	59.57
46	662	0.113	60.459	93.70	87.80	82.27	77.09	72.24	67.69	63.42	59.43
47	668	0.114	60.187	93.67	87.75	82.20	77.00	72.13	67.57	63.29	59.29
48	674	0.114	59.919	93.65	87.70	82.13	76.91	72.02	67.45	63.16	59.15
49	680	0.115	59.654	93.62	87.65	82.06	76.82	71.92	67.33	63.04	59.01
50	686	0.115	59.392	93.59	87.60	81.98	76.73	71.82	67.21	62.91	58.88
51	692	0.116	59.134	93.57	87.55	81.91	76.64	71.71	67.10	62.78	58.74
52	698	0.116	58.879	93.54	87.50	81.84	76.55	71.61	66.98	62.65	58.61
53	704	0.117	58.628	93.51	87.45	81.77	76.47	71.51	66.87	62.53	58.47
54	710	0.117	58.380	93.49	87.40	81.70	76.38	71.40	66.75	62.40	58.34
55	716	0.118	58.135	93.46	87.35	81.63	76.29	71.30	66.64	62.28	58.21
56	722	0.118	57.893	93.43	87.30	81.56	76.21	71.20	66.53	62.16	58.07
57	728	0.118	57.654	93.41	87.25	81.49	76.12	71.10	66.41	62.03	57.94
58	734	0.119	57.417	93.38	87.20	81.43	76.04	71.00	66.30	61.91	57.81
59	740	0.119	57.184	93.35	87.15	81.36	75.95	70.90	66.19	61.79	57.68
60	746	0.120	56.954	93.33	87.10	81.29	75.87	70.80	66.08	61.67	57.56
61	752	0.120	56.726	93.30	87.05	81.22	75.78	70.71	65.97	61.55	57.43
62	758	0.121	56.501	93.28	87.00	81.15	75.70	70.61	65.86	61.43	57.30
63	764	0.121	56.279	93.25	86.96	81.09	75.62	70.51	65.75	61.31	57.18
64	770	0.122	56.059	93.23	86.91	81.02	75.53	70.42	65.64	61.20	57.05
65	776	0.122	55.842	93.20	86.86	80.96	75.45	70.32	65.54	61.08	56.93
66	782	0.123	55.627	93.17	86.81	80.89	75.37	70.22	65.43	60.96	56.80
67	788	0.123	55.415	93.15	86.77	80.82	75.29	70.13	65.32	60.85	56.68
68	794	0.124	55.205	93.12	86.72	80.76	75.21	70.03	65.22	60.73	56.56
69	800	0.124	54.998	93.10	86.67	80.69	75.12	69.94	65.11	60.62	56.44

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