

7/8" 50 Ohm Rigid Coaxial Transmission Line, TV Ratings and Efficiency in Percent

CH #	Freq. MHz	ATTEN. in dB/100 ft.	Average Power (Kilowatts)	25 ft	50 ft	75 ft	100 ft	125 ft	150 ft	175 ft	200 ft
2	54	0.271	6.010	98.45	96.92	95.42	93.94	92.49	91.05	89.64	88.25
3	60	0.286	5.701	98.37	96.76	95.18	93.63	92.10	90.59	89.11	87.66
4	66	0.300	5.436	98.29	96.61	94.95	93.33	91.73	90.16	88.61	87.10
5	76	0.322	5.066	98.16	96.36	94.59	92.86	91.15	89.48	87.84	86.22
6	82	0.334	4.877	98.09	96.22	94.39	92.59	90.83	89.09	87.40	85.73
7	174	0.487	3.348	97.24	94.55	91.93	89.39	86.92	84.52	82.18	79.91
8	180	0.495	3.292	97.19	94.46	91.80	89.22	86.71	84.27	81.90	79.60
9	186	0.504	3.238	97.14	94.37	91.67	89.05	86.51	84.04	81.63	79.30
10	192	0.512	3.187	97.10	94.28	91.54	88.89	86.31	83.80	81.37	79.01
11	198	0.520	3.139	97.05	94.19	91.42	88.72	86.11	83.57	81.11	78.72
12	204	0.527	3.092	97.01	94.11	91.30	88.57	85.92	83.35	80.86	78.44
13	210	0.535	3.048	96.97	94.03	91.17	88.41	85.73	83.13	80.61	78.16
14	470	0.800	2.037	95.50	91.20	87.09	83.17	79.42	75.85	72.43	69.17
15	476	0.806	2.024	95.47	91.14	87.01	83.07	79.31	75.71	72.28	69.01
16	482	0.811	2.012	95.44	91.09	86.94	82.97	79.19	75.58	72.13	68.85
17	488	0.816	1.999	95.41	91.04	86.86	82.88	79.08	75.45	71.99	68.69
18	494	0.821	1.987	95.39	90.98	86.79	82.78	78.96	75.32	71.84	68.53
19	500	0.826	1.975	95.36	90.93	86.71	82.69	78.85	75.19	71.70	68.37
20	506	0.831	1.963	95.33	90.88	86.64	82.59	78.74	75.06	71.56	68.22
21	512	0.835	1.952	95.30	90.83	86.56	82.50	78.63	74.93	71.42	68.06
22	518	0.840	1.940	95.28	90.78	86.49	82.41	78.52	74.81	71.28	67.91
23	524	0.845	1.929	95.25	90.73	86.42	82.31	78.41	74.68	71.14	67.76
24	530	0.850	1.918	95.22	90.68	86.35	82.22	78.30	74.56	71.00	67.61
25	536	0.855	1.908	95.20	90.63	86.28	82.13	78.19	74.43	70.86	67.46
26	542	0.860	1.897	95.17	90.58	86.20	82.04	78.08	74.31	70.72	67.31
27	548	0.864	1.887	95.15	90.53	86.13	81.95	77.98	74.19	70.59	67.16
28	554	0.869	1.876	95.12	90.48	86.06	81.86	77.87	74.07	70.46	67.02
29	560	0.874	1.866	95.09	90.43	85.99	81.78	77.76	73.95	70.32	66.87
30	566	0.878	1.856	95.07	90.38	85.92	81.69	77.66	73.83	70.19	66.73
31	572	0.883	1.847	95.04	90.33	85.86	81.60	77.56	73.71	70.06	66.59
32	578	0.888	1.837	95.02	90.28	85.79	81.51	77.45	73.59	69.93	66.44
33	584	0.892	1.827	94.99	90.24	85.72	81.43	77.35	73.48	69.80	66.30
34	590	0.897	1.818	94.97	90.19	85.65	81.34	77.25	73.36	69.67	66.16
35	596	0.901	1.809	94.94	90.14	85.58	81.26	77.15	73.25	69.54	66.03

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36	602	0.906	1.800	94.92	90.10	85.52	81.17	77.05	73.13	69.42	65.89
37	608	0.910	1.791	94.89	90.05	85.45	81.09	76.95	73.02	69.29	65.75
38	614	0.915	1.782	94.87	90.00	85.38	81.00	76.85	72.91	69.17	65.62
39	620	0.919	1.774	94.85	89.96	85.32	80.92	76.75	72.79	69.04	65.48
40	626	0.924	1.765	94.82	89.91	85.25	80.84	76.65	72.68	68.92	65.35
41	632	0.928	1.757	94.80	89.86	85.19	80.76	76.55	72.57	68.80	65.22
42	638	0.933	1.748	94.77	89.82	85.12	80.67	76.46	72.46	68.67	65.08
43	644	0.937	1.740	94.75	89.77	85.06	80.59	76.36	72.35	68.55	64.95
44	650	0.941	1.732	94.73	89.73	85.00	80.51	76.27	72.24	68.43	64.82
45	656	0.946	1.724	94.70	89.68	84.93	80.43	76.17	72.13	68.31	64.69
46	662	0.950	1.716	94.68	89.64	84.87	80.35	76.08	72.03	68.19	64.57
47	668	0.954	1.709	94.65	89.60	84.81	80.27	75.98	71.92	68.08	64.44
48	674	0.959	1.701	94.63	89.55	84.74	80.19	75.89	71.81	67.96	64.31
49	680	0.963	1.694	94.61	89.51	84.68	80.12	75.80	71.71	67.84	64.18
50	686	0.967	1.686	94.59	89.46	84.62	80.04	75.70	71.60	67.73	64.06
51	692	0.971	1.679	94.56	89.42	84.56	79.96	75.61	71.50	67.61	63.94
52	698	0.976	1.672	94.54	89.38	84.50	79.88	75.52	71.40	67.50	63.81
53	704	0.980	1.664	94.52	89.33	84.44	79.81	75.43	71.29	67.38	63.69
54	710	0.984	1.657	94.49	89.29	84.37	79.73	75.34	71.19	67.27	63.57
55	716	0.988	1.650	94.47	89.25	84.31	79.65	75.25	71.09	67.16	63.45
56	722	0.992	1.644	94.45	89.21	84.25	79.58	75.16	70.99	67.05	63.32
57	728	0.996	1.637	94.43	89.16	84.19	79.50	75.07	70.89	66.94	63.20
58	734	1.000	1.630	94.40	89.12	84.13	79.43	74.98	70.79	66.83	63.09
59	740	1.004	1.623	94.38	89.08	84.08	79.35	74.89	70.69	66.72	62.97
60	746	1.008	1.617	94.36	89.04	84.02	79.28	74.81	70.59	66.61	62.85
61	752	1.013	1.610	94.34	89.00	83.96	79.20	74.72	70.49	66.50	62.73
62	758	1.017	1.604	94.32	88.96	83.90	79.13	74.63	70.39	66.39	62.62
63	764	1.021	1.598	94.29	88.91	83.84	79.06	74.55	70.29	66.28	62.50
64	770	1.025	1.592	94.27	88.87	83.78	78.98	74.46	70.20	66.18	62.39
65	776	1.029	1.585	94.25	88.83	83.73	78.91	74.38	70.10	66.07	62.27
66	782	1.033	1.579	94.23	88.79	83.67	78.84	74.29	70.00	65.96	62.16
67	788	1.036	1.573	94.21	88.75	83.61	78.77	74.21	69.91	65.86	62.04
68	794	1.040	1.567	94.19	88.71	83.55	78.70	74.12	69.81	65.75	61.93
69	800	1.044	1.561	94.17	88.67	83.50	78.63	74.04	69.72	65.65	61.82

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