

4 1/16" 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	0.054	113.030	96.93	93.96	91.07	88.28	85.57	82.94	80.40	77.93
3	60	0.057	107.230	96.77	93.64	90.61	87.68	84.85	82.11	79.45	76.88
4	66	0.060	102.240	96.61	93.34	90.18	87.12	84.17	81.32	78.56	75.90
5	76	0.064	95.276	96.37	92.87	89.50	86.25	83.12	80.10	77.19	74.39
6	82	0.067	91.724	96.23	92.60	89.11	85.76	82.52	79.41	76.42	73.54
7	174	0.097	62.968	94.56	89.41	84.55	79.94	75.59	71.48	67.59	63.91
8	180	0.099	61.909	94.47	89.24	84.30	79.64	75.23	71.07	67.14	63.42
9	186	0.101	60.903	94.38	89.07	84.07	79.34	74.88	70.67	66.70	62.95
10	192	0.102	59.943	94.29	88.91	83.83	79.05	74.53	70.28	66.27	62.48
11	198	0.104	59.028	94.21	88.75	83.60	78.76	74.20	69.90	65.85	62.03
12	204	0.105	58.154	94.12	88.59	83.38	78.48	73.86	69.52	65.43	61.59
13	210	0.107	57.317	94.04	88.43	83.16	78.20	73.54	69.15	65.03	61.15
14	470	0.160	38.313	91.21	83.20	75.89	69.22	63.14	57.59	52.53	47.91
15	476	0.161	38.070	91.16	83.10	75.76	69.06	62.95	57.39	52.32	47.69
16	482	0.162	37.833	91.11	83.00	75.62	68.90	62.77	57.19	52.10	47.47
17	488	0.163	37.599	91.05	82.91	75.49	68.74	62.59	56.99	51.89	47.25
18	494	0.164	37.370	91.00	82.81	75.36	68.58	62.41	56.79	51.68	47.03
19	500	0.165	37.146	90.95	82.72	75.23	68.42	62.23	56.60	51.48	46.82
20	506	0.166	36.925	90.90	82.63	75.11	68.27	62.06	56.41	51.27	46.61
21	512	0.167	36.708	90.85	82.53	74.98	68.12	61.88	56.22	51.07	46.40
22	518	0.168	36.494	90.80	82.44	74.85	67.96	61.71	56.03	50.87	46.19
23	524	0.169	36.285	90.75	82.35	74.73	67.81	61.54	55.84	50.67	45.98
24	530	0.170	36.079	90.70	82.26	74.60	67.66	61.37	55.66	50.48	45.78
25	536	0.171	35.876	90.65	82.17	74.48	67.51	61.20	55.47	50.28	45.58
26	542	0.172	35.677	90.60	82.08	74.36	67.36	61.03	55.29	50.09	45.38
27	548	0.173	35.481	90.55	81.99	74.24	67.22	60.86	55.11	49.90	45.18
28	554	0.173	35.289	90.50	81.90	74.12	67.07	60.70	54.93	49.71	44.99
29	560	0.174	35.099	90.45	81.81	74.00	66.93	60.54	54.75	49.52	44.79
30	566	0.175	34.913	90.40	81.72	73.88	66.78	60.37	54.58	49.34	44.60
31	572	0.176	34.729	90.35	81.63	73.76	66.64	60.21	54.40	49.15	44.41
32	578	0.177	34.548	90.30	81.55	73.64	66.50	60.05	54.23	48.97	44.22
33	584	0.178	34.370	90.26	81.46	73.52	66.36	59.89	54.06	48.79	44.04
34	590	0.179	34.195	90.21	81.38	73.41	66.22	59.74	53.89	48.61	43.85
35	596	0.180	34.023	90.16	81.29	73.29	66.08	59.58	53.72	48.43	43.67

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36	602	0.181	33.853	90.11	81.21	73.18	65.95	59.43	53.55	48.26	43.49
37	608	0.182	33.685	90.07	81.12	73.07	65.81	59.27	53.39	48.08	43.31
38	614	0.183	33.520	90.02	81.04	72.95	65.67	59.12	53.22	47.91	43.13
39	620	0.183	33.358	89.98	80.96	72.84	65.54	58.97	53.06	47.74	42.95
40	626	0.184	33.197	89.93	80.87	72.73	65.41	58.82	52.90	47.57	42.78
41	632	0.185	33.039	89.88	80.79	72.62	65.27	58.67	52.74	47.40	42.61
42	638	0.186	32.884	89.84	80.71	72.51	65.14	58.52	52.58	47.23	42.43
43	644	0.187	32.730	89.79	80.63	72.40	65.01	58.38	52.42	47.07	42.26
44	650	0.188	32.579	89.75	80.55	72.29	64.88	58.23	52.26	46.90	42.09
45	656	0.189	32.429	89.70	80.47	72.18	64.75	58.08	52.10	46.74	41.93
46	662	0.190	32.282	89.66	80.39	72.08	64.62	57.94	51.95	46.58	41.76
47	668	0.190	32.137	89.62	80.31	71.97	64.50	57.80	51.80	46.42	41.60
48	674	0.191	31.994	89.57	80.23	71.86	64.37	57.66	51.64	46.26	41.43
49	680	0.192	31.852	89.53	80.15	71.76	64.24	57.52	51.49	46.10	41.27
50	686	0.193	31.712	89.48	80.07	71.65	64.12	57.38	51.34	45.94	41.11
51	692	0.194	31.575	89.44	80.00	71.55	63.99	57.24	51.19	45.79	40.95
52	698	0.195	31.439	89.40	79.92	71.45	63.87	57.10	51.04	45.63	40.79
53	704	0.196	31.304	89.35	79.84	71.34	63.75	56.96	50.90	45.48	40.64
54	710	0.196	31.172	89.31	79.77	71.24	63.63	56.83	50.75	45.33	40.48
55	716	0.197	31.041	89.27	79.69	71.14	63.50	56.69	50.61	45.18	40.33
56	722	0.198	30.912	89.23	79.61	71.04	63.38	56.56	50.46	45.03	40.18
57	728	0.199	30.784	89.18	79.54	70.94	63.26	56.42	50.32	44.88	40.02
58	734	0.200	30.658	89.14	79.46	70.84	63.15	56.29	50.18	44.73	39.87
59	740	0.200	30.533	89.10	79.39	70.74	63.03	56.16	50.04	44.58	39.72
60	746	0.201	30.410	89.06	79.32	70.64	62.91	56.03	49.90	44.44	39.58
61	752	0.202	30.289	89.02	79.24	70.54	62.79	55.90	49.76	44.29	39.43
62	758	0.203	30.169	88.98	79.17	70.44	62.68	55.77	49.62	44.15	39.28
63	764	0.204	30.050	88.94	79.10	70.34	62.56	55.64	49.48	44.01	39.14
64	770	0.204	29.933	88.89	79.02	70.25	62.45	55.51	49.35	43.87	39.00
65	776	0.205	29.817	88.85	78.95	70.15	62.33	55.38	49.21	43.73	38.85
66	782	0.206	29.702	88.81	78.88	70.05	62.22	55.26	49.08	43.59	38.71
67	788	0.207	29.589	88.77	78.81	69.96	62.11	55.13	48.94	43.45	38.57
68	794	0.208	29.477	88.73	78.74	69.86	61.99	55.01	48.81	43.31	38.43
69	800	0.208	29.366	88.69	78.66	69.77	61.88	54.88	48.68	43.17	38.29

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