

7 3/16" 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	0.028	285.461	98.43	96.88	95.35	93.85	92.37	90.92	89.48	88.07
3	60	0.029	270.812	98.34	96.71	95.10	93.53	91.97	90.45	88.95	87.47
4	66	0.030	258.209	98.26	96.55	94.87	93.22	91.60	90.01	88.44	86.90
5	76	0.033	240.623	98.13	96.30	94.51	92.74	91.01	89.32	87.65	86.02
6	82	0.034	231.652	98.06	96.16	94.30	92.47	90.68	88.93	87.20	85.51
7	174	0.049	159.026	97.19	94.46	91.81	89.23	86.72	84.29	81.92	79.62
8	180	0.050	156.353	97.14	94.37	91.67	89.05	86.51	84.04	81.64	79.31
9	186	0.051	153.811	97.10	94.28	91.54	88.88	86.30	83.80	81.37	79.00
10	192	0.052	151.389	97.05	94.19	91.41	88.72	86.10	83.56	81.10	78.71
11	198	0.053	149.077	97.01	94.10	91.29	88.55	85.90	83.33	80.84	78.42
12	204	0.054	146.869	96.96	94.02	91.16	88.39	85.71	83.10	80.58	78.13
13	210	0.054	144.755	96.92	93.93	91.04	88.23	85.51	82.88	80.32	77.85
14	470	0.081	96.760	95.43	91.06	86.89	82.92	79.13	75.51	72.05	68.75
15	476	0.082	96.148	95.40	91.01	86.82	82.82	79.01	75.37	71.90	68.59
16	482	0.082	95.548	95.37	90.95	86.74	82.72	78.89	75.24	71.75	68.43
17	488	0.083	94.959	95.34	90.90	86.66	82.62	78.77	75.10	71.60	68.27
18	494	0.083	94.380	95.31	90.84	86.59	82.53	78.66	74.97	71.46	68.11
19	500	0.084	93.812	95.28	90.79	86.51	82.43	78.55	74.84	71.31	67.95
20	506	0.084	93.254	95.26	90.74	86.44	82.34	78.43	74.71	71.17	67.79
21	512	0.085	92.706	95.23	90.69	86.36	82.24	78.32	74.58	71.03	67.64
22	518	0.085	92.168	95.20	90.64	86.29	82.15	78.21	74.46	70.88	67.48
23	524	0.086	91.639	95.18	90.58	86.21	82.05	78.10	74.33	70.74	67.33
24	530	0.086	91.118	95.15	90.53	86.14	81.96	77.99	74.20	70.60	67.18
25	536	0.087	90.607	95.12	90.48	86.07	81.87	77.88	74.08	70.46	67.03
26	542	0.087	90.104	95.10	90.43	86.00	81.78	77.77	73.95	70.33	66.88
27	548	0.088	89.609	95.07	90.38	85.93	81.69	77.66	73.83	70.19	66.73
28	554	0.088	89.123	95.04	90.33	85.85	81.60	77.55	73.71	70.06	66.58
29	560	0.089	88.644	95.02	90.28	85.78	81.51	77.45	73.59	69.92	66.44
30	566	0.089	88.173	94.99	90.23	85.71	81.42	77.34	73.47	69.79	66.29
31	572	0.090	87.709	94.97	90.18	85.64	81.33	77.24	73.35	69.65	66.15

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32	578	0.090	87.253	94.94	90.14	85.57	81.24	77.13	73.23	69.52	66.00
33	584	0.091	86.804	94.91	90.09	85.50	81.16	77.03	73.11	69.39	65.86
34	590	0.091	86.361	94.89	90.04	85.44	81.07	76.93	72.99	69.26	65.72
35	596	0.092	85.925	94.86	89.99	85.37	80.98	76.82	72.88	69.13	65.58
36	602	0.092	85.496	94.84	89.94	85.30	80.90	76.72	72.76	69.01	65.44
37	608	0.093	85.073	94.81	89.90	85.23	80.81	76.62	72.65	68.88	65.31
38	614	0.093	84.656	94.79	89.85	85.17	80.73	76.52	72.53	68.75	65.17
39	620	0.093	84.246	94.76	89.80	85.10	80.64	76.42	72.42	68.63	65.03
40	626	0.094	83.841	94.74	89.75	85.03	80.56	76.32	72.31	68.50	64.90
41	632	0.094	83.442	94.71	89.71	84.97	80.48	76.22	72.19	68.38	64.76
42	638	0.095	83.049	94.69	89.66	84.90	80.39	76.12	72.08	68.26	64.63
43	644	0.095	82.661	94.67	89.62	84.84	80.31	76.03	71.97	68.13	64.50
44	650	0.096	82.279	94.64	89.57	84.77	80.23	75.93	71.86	68.01	64.37
45	656	0.096	81.902	94.62	89.53	84.71	80.15	75.83	71.75	67.89	64.24
46	662	0.097	81.530	94.59	89.48	84.64	80.07	75.74	71.64	67.77	64.11
47	668	0.097	81.163	94.57	89.44	84.58	79.99	75.64	71.54	67.65	63.98
48	674	0.097	80.800	94.55	89.39	84.52	79.91	75.55	71.43	67.53	63.85
49	680	0.098	80.443	94.52	89.35	84.45	79.83	75.46	71.32	67.42	63.72
50	686	0.098	80.091	94.50	89.30	84.39	79.75	75.36	71.22	67.30	63.60
51	692	0.099	79.743	94.48	89.26	84.33	79.67	75.27	71.11	67.18	63.47
52	698	0.099	79.399	94.45	89.21	84.27	79.59	75.18	71.01	67.07	63.35
53	704	0.100	79.060	94.43	89.17	84.20	79.51	75.08	70.90	66.95	63.22
54	710	0.100	78.725	94.41	89.13	84.14	79.44	74.99	70.80	66.84	63.10
55	716	0.100	78.395	94.38	89.08	84.08	79.36	74.90	70.70	66.73	62.98
56	722	0.101	78.068	94.36	89.04	84.02	79.28	74.81	70.59	66.61	62.86
57	728	0.101	77.746	94.34	89.00	83.96	79.21	74.72	70.49	66.50	62.74
58	734	0.102	77.428	94.32	88.95	83.90	79.13	74.63	70.39	66.39	62.62
59	740	0.102	77.113	94.29	88.91	83.84	79.05	74.54	70.29	66.28	62.50
60	746	0.102	76.802	94.27	88.87	83.78	78.98	74.45	70.19	66.17	62.38

Standard Conditions:

Attenuation: Ambient Temperature 20°C (68°F), Dry Air, Sea Level Atmospheric Pressure, VSWR 1.0, 0KW

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