



**12" 50 Ohm Rigid Coaxial Transmission Line, FM Ratings and Efficiency in Percent**

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
88.1	0.02659	568.543	98.481	96.985	95.511	94.060	92.631	91.224	89.838	88.473
88.3	0.02662	567.899	98.479	96.981	95.506	94.054	92.623	91.214	89.827	88.461
88.5	0.02665	567.256	98.477	96.978	95.501	94.047	92.615	91.205	89.816	88.449
88.7	0.02668	566.617	98.476	96.975	95.496	94.041	92.607	91.195	89.805	88.436
88.9	0.02671	565.979	98.474	96.971	95.491	94.034	92.599	91.186	89.794	88.424
89.1	0.02674	565.343	98.472	96.968	95.486	94.028	92.591	91.177	89.784	88.412
89.3	0.02677	564.710	98.471	96.964	95.481	94.021	92.583	91.167	89.773	88.400
89.5	0.02680	564.079	98.469	96.961	95.477	94.015	92.575	91.158	89.762	88.387
89.7	0.02683	563.449	98.467	96.958	95.472	94.008	92.567	91.148	89.751	88.375
89.9	0.02686	562.822	98.465	96.954	95.467	94.002	92.559	91.139	89.740	88.363
90.1	0.02689	562.197	98.464	96.951	95.462	93.995	92.551	91.129	89.729	88.351
90.3	0.02692	561.574	98.462	96.948	95.457	93.989	92.543	91.120	89.719	88.339
90.5	0.02695	560.953	98.460	96.944	95.452	93.982	92.535	91.111	89.708	88.327
90.7	0.02698	560.335	98.459	96.941	95.447	93.976	92.527	91.101	89.697	88.315
90.9	0.02701	559.718	98.457	96.938	95.442	93.969	92.519	91.092	89.686	88.302
91.1	0.02704	559.103	98.455	96.935	95.437	93.963	92.512	91.083	89.676	88.290
91.3	0.02707	558.490	98.454	96.931	95.432	93.957	92.504	91.073	89.665	88.278
91.5	0.02710	557.880	98.452	96.928	95.427	93.950	92.496	91.064	89.654	88.266
91.7	0.02713	557.271	98.450	96.925	95.423	93.944	92.488	91.055	89.643	88.254
91.9	0.02716	556.664	98.449	96.921	95.418	93.937	92.480	91.045	89.633	88.242
92.1	0.02719	556.060	98.447	96.918	95.413	93.931	92.472	91.036	89.622	88.230
92.3	0.02722	555.457	98.445	96.915	95.408	93.925	92.464	91.027	89.611	88.218
92.5	0.02725	554.856	98.444	96.911	95.403	93.918	92.456	91.017	89.601	88.206
92.7	0.02728	554.257	98.442	96.908	95.398	93.912	92.449	91.008	89.590	88.194
92.9	0.02731	553.660	98.440	96.905	95.393	93.905	92.441	90.999	89.580	88.182
93.1	0.02734	553.065	98.439	96.902	95.389	93.899	92.433	90.990	89.569	88.170
93.3	0.02737	552.472	98.437	96.898	95.384	93.893	92.425	90.980	89.558	88.159
93.5	0.02740	551.881	98.435	96.895	95.379	93.886	92.417	90.971	89.548	88.147
93.7	0.02743	551.292	98.434	96.892	95.374	93.880	92.410	90.962	89.537	88.135
93.9	0.02746	550.704	98.432	96.888	95.369	93.874	92.402	90.953	89.527	88.123
94.1	0.02748	550.119	98.430	96.885	95.364	93.867	92.394	90.944	89.516	88.111
94.3	0.02751	549.535	98.429	96.882	95.360	93.861	92.386	90.935	89.506	88.099
94.5	0.02754	548.953	98.427	96.879	95.355	93.855	92.379	90.925	89.495	88.087
94.7	0.02757	548.373	98.425	96.875	95.350	93.849	92.371	90.916	89.485	88.076
94.9	0.02760	547.795	98.424	96.872	95.345	93.842	92.363	90.907	89.474	88.064
95.1	0.02763	547.219	98.422	96.869	95.340	93.836	92.355	90.898	89.464	88.052
95.3	0.02766	546.644	98.420	96.866	95.336	93.830	92.348	90.889	89.453	88.040
95.5	0.02769	546.071	98.419	96.863	95.331	93.823	92.340	90.880	89.443	88.028
95.7	0.02772	545.500	98.417	96.859	95.326	93.817	92.332	90.871	89.432	88.017
95.9	0.02775	544.931	98.415	96.856	95.321	93.811	92.324	90.862	89.422	88.005
96.1	0.02778	544.364	98.414	96.853	95.317	93.805	92.317	90.852	89.411	87.993
96.3	0.02780	543.798	98.412	96.850	95.312	93.798	92.309	90.843	89.401	87.982
96.5	0.02783	543.235	98.411	96.846	95.307	93.792	92.301	90.834	89.391	87.970
96.7	0.02786	542.673	98.409	96.843	95.302	93.786	92.294	90.825	89.380	87.958
96.9	0.02789	542.112	98.407	96.840	95.298	93.780	92.286	90.816	89.370	87.946
97.1	0.02792	541.554	98.406	96.837	95.293	93.774	92.279	90.807	89.360	87.935
97.3	0.02795	540.997	98.404	96.834	95.288	93.767	92.271	90.798	89.349	87.923
97.5	0.02798	540.442	98.402	96.830	95.283	93.761	92.263	90.789	89.339	87.912
97.7	0.02801	539.888	98.401	96.827	95.279	93.755	92.256	90.780	89.328	87.900
97.9	0.02803	539.336	98.399	96.824	95.274	93.749	92.248	90.771	89.318	87.888

**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



**12" 50 Ohm Rigid Coaxial Transmission Line, FM Ratings and Efficiency in Percent**

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
98.1	0.02806	538.786	98.398	96.821	95.269	93.743	92.240	90.762	89.308	87.877
98.3	0.02809	538.238	98.396	96.818	95.265	93.736	92.233	90.753	89.298	87.865
98.5	0.02812	537.691	98.394	96.814	95.260	93.730	92.225	90.744	89.287	87.854
98.7	0.02815	537.146	98.393	96.811	95.255	93.724	92.218	90.735	89.277	87.842
98.9	0.02818	536.603	98.391	96.808	95.250	93.718	92.210	90.727	89.267	87.831
99.1	0.02821	536.061	98.389	96.805	95.246	93.712	92.203	90.718	89.257	87.819
99.3	0.02823	535.521	98.388	96.802	95.241	93.706	92.195	90.709	89.246	87.808
99.5	0.02826	534.982	98.386	96.799	95.236	93.700	92.187	90.700	89.236	87.796
99.7	0.02829	534.446	98.385	96.795	95.232	93.693	92.180	90.691	89.226	87.785
99.9	0.02832	533.910	98.383	96.792	95.227	93.687	92.172	90.682	89.216	87.773
100.1	0.02835	533.377	98.381	96.789	95.222	93.681	92.165	90.673	89.206	87.762
100.3	0.02838	532.845	98.380	96.786	95.218	93.675	92.157	90.664	89.195	87.750
100.5	0.02840	532.314	98.378	96.783	95.213	93.669	92.150	90.655	89.185	87.739
100.7	0.02843	531.785	98.377	96.780	95.208	93.663	92.142	90.647	89.175	87.727
100.9	0.02846	531.258	98.375	96.776	95.204	93.657	92.135	90.638	89.165	87.716
101.1	0.02849	530.732	98.373	96.773	95.199	93.651	92.127	90.629	89.155	87.705
101.3	0.02852	530.208	98.372	96.770	95.195	93.645	92.120	90.620	89.145	87.693
101.5	0.02855	529.686	98.370	96.767	95.190	93.639	92.113	90.611	89.135	87.682
101.7	0.02857	529.164	98.369	96.764	95.185	93.633	92.105	90.602	89.124	87.671
101.9	0.02860	528.645	98.367	96.761	95.181	93.626	92.098	90.594	89.114	87.659
102.1	0.02863	528.127	98.365	96.758	95.176	93.620	92.090	90.585	89.104	87.648
102.3	0.02866	527.610	98.364	96.755	95.172	93.614	92.083	90.576	89.094	87.637
102.5	0.02869	527.095	98.362	96.751	95.167	93.608	92.075	90.567	89.084	87.625
102.7	0.02871	526.582	98.361	96.748	95.162	93.602	92.068	90.559	89.074	87.614
102.9	0.02874	526.070	98.359	96.745	95.158	93.596	92.061	90.550	89.064	87.603
103.1	0.02877	525.559	98.358	96.742	95.153	93.590	92.053	90.541	89.054	87.591
103.3	0.02880	525.050	98.356	96.739	95.149	93.584	92.046	90.532	89.044	87.580
103.5	0.02882	524.543	98.354	96.736	95.144	93.578	92.038	90.524	89.034	87.569
103.7	0.02885	524.037	98.353	96.733	95.139	93.572	92.031	90.515	89.024	87.558
103.9	0.02888	523.532	98.351	96.730	95.135	93.566	92.024	90.506	89.014	87.546
104.1	0.02891	523.029	98.350	96.727	95.130	93.560	92.016	90.498	89.004	87.535
104.3	0.02894	522.527	98.348	96.723	95.126	93.554	92.009	90.489	88.994	87.524
104.5	0.02896	522.027	98.347	96.720	95.121	93.548	92.002	90.480	88.984	87.513
104.7	0.02899	521.528	98.345	96.717	95.117	93.542	91.994	90.472	88.974	87.502
104.9	0.02902	521.031	98.343	96.714	95.112	93.536	91.987	90.463	88.964	87.491
105.1	0.02905	520.535	98.342	96.711	95.108	93.530	91.980	90.454	88.954	87.479
105.3	0.02907	520.040	98.340	96.708	95.103	93.525	91.972	90.446	88.945	87.468
105.5	0.02910	519.547	98.339	96.705	95.098	93.519	91.965	90.437	88.935	87.457
105.7	0.02913	519.055	98.337	96.702	95.094	93.513	91.958	90.429	88.925	87.446
105.9	0.02916	518.565	98.336	96.699	95.089	93.507	91.950	90.420	88.915	87.435
106.1	0.02918	518.076	98.334	96.696	95.085	93.501	91.943	90.411	88.905	87.424
106.3	0.02921	517.588	98.332	96.693	95.080	93.495	91.936	90.403	88.895	87.413
106.5	0.02924	517.102	98.331	96.690	95.076	93.489	91.929	90.394	88.885	87.402
106.7	0.02927	516.617	98.329	96.687	95.071	93.483	91.921	90.386	88.876	87.391
106.9	0.02929	516.134	98.328	96.684	95.067	93.477	91.914	90.377	88.866	87.380
107.1	0.02932	515.652	98.326	96.681	95.062	93.471	91.907	90.368	88.856	87.369
107.3	0.02935	515.171	98.325	96.677	95.058	93.465	91.900	90.360	88.846	87.358
107.5	0.02938	514.691	98.323	96.674	95.053	93.459	91.892	90.351	88.836	87.347
107.7	0.02940	514.213	98.322	96.671	95.049	93.454	91.885	90.343	88.827	87.336
107.9	0.02943	513.736	98.320	96.668	95.044	93.448	91.878	90.334	88.817	87.325

**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