



**MMA INC.** Broadcast Transmission Line Systems, Filters & Combiners  
360 Franklin Turnpike, Mahwah, NJ 07430

Phone (201) 684-0100  
Fax (201) 684-0104

**12" 75 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	0.02505	602.162	98.57	97.16	95.77	94.40	93.04	91.71	90.40	89.10
88.3	0.02508	601.480	98.57	97.15	95.76	94.39	93.04	91.70	90.39	89.09
88.5	0.02511	600.800	98.57	97.15	95.76	94.38	93.03	91.69	90.38	89.08
88.7	0.02513	600.122	98.56	97.15	95.75	94.38	93.02	91.68	90.37	89.07
88.9	0.02516	599.447	98.56	97.14	95.75	94.37	93.01	91.68	90.36	89.06
89.1	0.02519	598.774	98.56	97.14	95.74	94.36	93.01	91.67	90.35	89.05
89.3	0.02522	598.103	98.56	97.14	95.74	94.36	93.00	91.66	90.34	89.04
89.5	0.02525	597.434	98.56	97.14	95.73	94.35	92.99	91.65	90.33	89.02
89.7	0.02528	596.768	98.56	97.13	95.73	94.35	92.98	91.64	90.32	89.01
89.9	0.02530	596.104	98.55	97.13	95.72	94.34	92.98	91.63	90.31	89.00
90.1	0.02533	595.442	98.55	97.13	95.72	94.33	92.97	91.62	90.30	88.99
90.3	0.02536	594.782	98.55	97.12	95.71	94.33	92.96	91.61	90.29	88.98
90.5	0.02539	594.124	98.55	97.12	95.71	94.32	92.95	91.60	90.28	88.97
90.7	0.02542	593.469	98.55	97.12	95.71	94.32	92.95	91.60	90.27	88.95
90.9	0.02544	592.816	98.55	97.11	95.70	94.31	92.94	91.59	90.26	88.94
91.1	0.02547	592.165	98.54	97.11	95.70	94.30	92.93	91.58	90.25	88.93
91.3	0.02550	591.516	98.54	97.11	95.69	94.30	92.92	91.57	90.23	88.92
91.5	0.02553	590.869	98.54	97.10	95.69	94.29	92.92	91.56	90.22	88.91
91.7	0.02556	590.224	98.54	97.10	95.68	94.29	92.91	91.55	90.21	88.90
91.9	0.02558	589.582	98.54	97.10	95.68	94.28	92.90	91.54	90.20	88.89
92.1	0.02561	588.941	98.54	97.09	95.67	94.27	92.89	91.53	90.19	88.87
92.3	0.02564	588.303	98.53	97.09	95.67	94.27	92.89	91.53	90.18	88.86
92.5	0.02567	587.666	98.53	97.09	95.66	94.26	92.88	91.52	90.17	88.85
92.7	0.02570	587.032	98.53	97.09	95.66	94.26	92.87	91.51	90.16	88.84
92.9	0.02572	586.400	98.53	97.08	95.66	94.25	92.86	91.50	90.15	88.83
93.1	0.02575	585.770	98.53	97.08	95.65	94.24	92.86	91.49	90.14	88.82
93.3	0.02578	585.141	98.53	97.08	95.65	94.24	92.85	91.48	90.13	88.81
93.5	0.02581	584.515	98.53	97.07	95.64	94.23	92.84	91.47	90.12	88.80
93.7	0.02583	583.891	98.52	97.07	95.64	94.23	92.83	91.46	90.11	88.78
93.9	0.02586	583.269	98.52	97.07	95.63	94.22	92.83	91.46	90.10	88.77
94.1	0.02589	582.649	98.52	97.06	95.63	94.21	92.82	91.45	90.09	88.76
94.3	0.02592	582.031	98.52	97.06	95.62	94.21	92.81	91.44	90.08	88.75
94.5	0.02594	581.414	98.52	97.06	95.62	94.20	92.80	91.43	90.07	88.74
94.7	0.02597	580.800	98.52	97.05	95.61	94.20	92.80	91.42	90.06	88.73
94.9	0.02600	580.188	98.51	97.05	95.61	94.19	92.79	91.41	90.05	88.72
95.1	0.02603	579.577	98.51	97.05	95.61	94.18	92.78	91.40	90.04	88.71
95.3	0.02605	578.969	98.51	97.05	95.60	94.18	92.78	91.39	90.03	88.69
95.5	0.02608	578.362	98.51	97.04	95.60	94.17	92.77	91.39	90.02	88.68
95.7	0.02611	577.758	98.51	97.04	95.59	94.17	92.76	91.38	90.01	88.67
95.9	0.02613	577.155	98.51	97.04	95.59	94.16	92.75	91.37	90.00	88.66
96.1	0.02616	576.554	98.51	97.03	95.58	94.15	92.75	91.36	89.99	88.65
96.3	0.02619	575.955	98.50	97.03	95.58	94.15	92.74	91.35	89.98	88.64
96.5	0.02622	575.358	98.50	97.03	95.57	94.14	92.73	91.34	89.97	88.63
96.7	0.02624	574.762	98.50	97.02	95.57	94.14	92.72	91.33	89.97	88.62
96.9	0.02627	574.169	98.50	97.02	95.56	94.13	92.72	91.33	89.96	88.61
97.1	0.02630	573.577	98.50	97.02	95.56	94.12	92.71	91.32	89.95	88.59
97.3	0.02632	572.988	98.50	97.01	95.56	94.12	92.70	91.31	89.94	88.58
97.5	0.02635	572.400	98.49	97.01	95.55	94.11	92.70	91.30	89.93	88.57
97.7	0.02638	571.813	98.49	97.01	95.55	94.11	92.69	91.29	89.92	88.56
97.9	0.02641	571.229	98.49	97.01	95.54	94.10	92.68	91.28	89.91	88.55

**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" 75 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	0.02643	570.646	98.49	97.00	95.54	94.10	92.67	91.27	89.90	88.54
98.3	0.02646	570.066	98.49	97.00	95.53	94.09	92.67	91.27	89.89	88.53
98.5	0.02649	569.487	98.49	97.00	95.53	94.08	92.66	91.26	89.88	88.52
98.7	0.02651	568.909	98.49	96.99	95.52	94.08	92.65	91.25	89.87	88.51
98.9	0.02654	568.334	98.48	96.99	95.52	94.07	92.65	91.24	89.86	88.50
99.1	0.02657	567.760	98.48	96.99	95.52	94.07	92.64	91.23	89.85	88.48
99.3	0.02659	567.188	98.48	96.98	95.51	94.06	92.63	91.22	89.84	88.47
99.5	0.02662	566.618	98.48	96.98	95.51	94.05	92.62	91.22	89.83	88.46
99.7	0.02665	566.049	98.48	96.98	95.50	94.05	92.62	91.21	89.82	88.45
99.9	0.02667	565.482	98.48	96.98	95.50	94.04	92.61	91.20	89.81	88.44
100.1	0.02670	564.917	98.47	96.97	95.49	94.04	92.60	91.19	89.80	88.43
100.3	0.02673	564.353	98.47	96.97	95.49	94.03	92.60	91.18	89.79	88.42
100.5	0.02675	563.792	98.47	96.97	95.48	94.03	92.59	91.17	89.78	88.41
100.7	0.02678	563.231	98.47	96.96	95.48	94.02	92.58	91.17	89.77	88.40
100.9	0.02681	562.673	98.47	96.96	95.48	94.01	92.57	91.16	89.76	88.39
101.1	0.02683	562.116	98.47	96.96	95.47	94.01	92.57	91.15	89.75	88.38
101.3	0.02686	561.561	98.47	96.95	95.47	94.00	92.56	91.14	89.74	88.36
101.5	0.02689	561.007	98.46	96.95	95.46	94.00	92.55	91.13	89.73	88.35
101.7	0.02691	560.456	98.46	96.95	95.46	93.99	92.55	91.12	89.72	88.34
101.9	0.02694	559.905	98.46	96.95	95.45	93.99	92.54	91.12	89.71	88.33
102.1	0.02697	559.357	98.46	96.94	95.45	93.98	92.53	91.11	89.70	88.32
102.3	0.02699	558.810	98.46	96.94	95.45	93.97	92.52	91.10	89.69	88.31
102.5	0.02702	558.264	98.46	96.94	95.44	93.97	92.52	91.09	89.68	88.30
102.7	0.02705	557.720	98.46	96.93	95.44	93.96	92.51	91.08	89.67	88.29
102.9	0.02707	557.178	98.45	96.93	95.43	93.96	92.50	91.07	89.67	88.28
103.1	0.02710	556.637	98.45	96.93	95.43	93.95	92.50	91.07	89.66	88.27
103.3	0.02712	556.098	98.45	96.93	95.42	93.95	92.49	91.06	89.65	88.26
103.5	0.02715	555.561	98.45	96.92	95.42	93.94	92.48	91.05	89.64	88.25
103.7	0.02718	555.025	98.45	96.92	95.42	93.93	92.48	91.04	89.63	88.24
103.9	0.02720	554.490	98.45	96.92	95.41	93.93	92.47	91.03	89.62	88.23
104.1	0.02723	553.957	98.44	96.91	95.41	93.92	92.46	91.02	89.61	88.21
104.3	0.02726	553.426	98.44	96.91	95.40	93.92	92.46	91.02	89.60	88.20
104.5	0.02728	552.896	98.44	96.91	95.40	93.91	92.45	91.01	89.59	88.19
104.7	0.02731	552.368	98.44	96.91	95.39	93.91	92.44	91.00	89.58	88.18
104.9	0.02733	551.841	98.44	96.90	95.39	93.90	92.43	90.99	89.57	88.17
105.1	0.02736	551.316	98.44	96.90	95.39	93.89	92.43	90.98	89.56	88.16
105.3	0.02739	550.792	98.44	96.90	95.38	93.89	92.42	90.97	89.55	88.15
105.5	0.02741	550.269	98.43	96.89	95.38	93.88	92.41	90.97	89.54	88.14
105.7	0.02744	549.749	98.43	96.89	95.37	93.88	92.41	90.96	89.53	88.13
105.9	0.02746	549.229	98.43	96.89	95.37	93.87	92.40	90.95	89.52	88.12
106.1	0.02749	548.711	98.43	96.88	95.36	93.87	92.39	90.94	89.51	88.11
106.3	0.02752	548.195	98.43	96.88	95.36	93.86	92.39	90.93	89.51	88.10
106.5	0.02754	547.680	98.43	96.88	95.36	93.86	92.38	90.93	89.50	88.09
106.7	0.02757	547.166	98.43	96.88	95.35	93.85	92.37	90.92	89.49	88.08
106.9	0.02759	546.654	98.42	96.87	95.35	93.84	92.37	90.91	89.48	88.07
107.1	0.02762	546.144	98.42	96.87	95.34	93.84	92.36	90.90	89.47	88.06
107.3	0.02764	545.634	98.42	96.87	95.34	93.83	92.35	90.89	89.46	88.05
107.5	0.02767	545.127	98.42	96.86	95.33	93.83	92.34	90.89	89.45	88.04
107.7	0.02770	544.620	98.42	96.86	95.33	93.82	92.34	90.88	89.44	88.03
107.9	0.02772	544.115	98.42	96.86	95.33	93.82	92.33	90.87	89.43	88.01

**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