

Coax Components Specifications

Attenuation:

Frequency:	Attenuation (dB per 100 ft):*				
	7/8" Line	1-5/8" Line	3-1/8" Line	4-1/16" Line	6-1/8" Line
TV-Ch 2 (54 MHz):	0.27	0.14	0.068	0.054	0.036
FM (88 MHz):	0.35	0.18	0.088	0.069	0.046
FM (98 MHz):	0.37	0.19	0.092	0.073	0.048
FM (108 MHz):	0.39	0.20	0.097	0.077	0.050
TV-Ch 7 (174 MHz):	0.49	0.25	0.123	0.097	0.064
TV-Ch 13 (210 MHz):	0.54	0.28	0.135	0.107	0.070
TV-Ch 14 (470 MHz):	0.80	0.41	0.202	0.160	0.105
TV-Ch 36 (602 MHz):	0.91	0.47	0.228	0.181	0.119
TV-Ch 69 (800 MHz):	1.05	0.54	0.263	0.208	0.137

*Standard conditions for attenuation: ambient temperature 20° C (68° F); Dry air; sea level atmospheric pressure; VSWR 1.0.

Average power rating:

Frequency:	Average Power Rating (kW):*				
	7/8" Line	1-5/8" Line	3-1/8" Line	4-1/16" Line	6-1/8" Line
TV-Ch 2 (54 MHz):	6.1	20.5	71.5	115	245
FM (88 MHz):	4.7	16.5	56.0	88.6	195
FM (98 MHz):	4.5	15.5	53.1	84.0	185
FM (108 MHz):	4.3	15.0	50.5	80.0	175
TV-Ch 7 (174 MHz):	3.5	11.5	40.0	63.5	135
TV-Ch 13 (210 MHz):	3.1	10.5	36.0	57.5	123
TV-Ch 14 (470 MHz):	2.1	7.0	24.3	38.5	83.0
TV-Ch 36 (602 MHz):	1.8	6.2	21.4	34.0	73.0
TV-Ch 69 (800 MHz):	1.6	5.4	18.5	30.0	63.0

*Standard conditions for average power rating: ambient temperature 40° C (104° F); inner conductor temperature 102° C (216° F); dry air; sea level atmospheric pressure; VSWR 1.0.

NOTE

These values represent ideal conditions. We recommend that these ratings be applied conservatively to accommodate changes that may occur throughout the lifetime of the system. For example, at FM (88 - 108 MHz), we recommend average power limits of 15 kW for 1-5/8" line, 40 kW for 3-1/8", 80 kW for 4-1/16", and 160 kW for 6-1/8" on components.

Peak power rating:

NOTE

For an amplitude-modulated (AM) service (530-1610 kHz), coaxial transmission lines are limited by peak power.

Line Size	7/8" Line	1-5/8" Line	3-1/8" Line	4-1/16" Line	6-1/8" Line
Peak Power (kW)	45	130	440	700	1500

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