



A.H. Systems, Inc.

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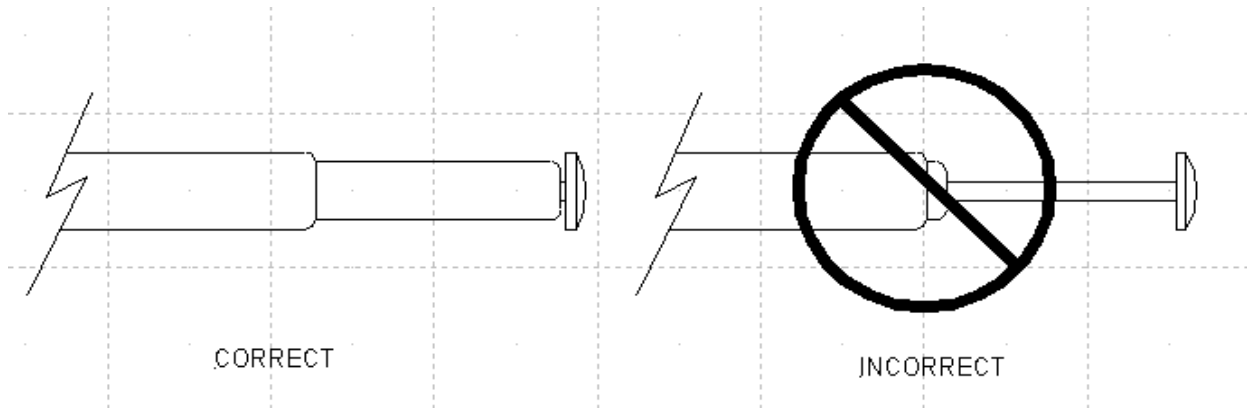
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Tuned Dipole Element Lengths

To use your tuned dipole antenna, you must set them up either on a tripod for informal testing or on an antenna mast for site attenuation and/or compliance testing. The telescoping elements should be adjusted to the resonant frequency ($\frac{1}{2}$ wavelength). When adjusting the elements make sure that the largest OD is exposed.





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When adjusting the elements for frequency in-between those data points provided, linear extrapolation can be used. Below is a table showing the required element length for the given frequency.

FCC-1		FCC-2		FCC-3		FCC-4	
Frequency	Length	Frequency	Length	Frequency	Length	Frequency	Length
25 MHz	96"	65 MHz	46 1/4"	170 MHz	16 1/8"	325 MHz	8 1/8"
30 MHz	96"	70 MHz	43"	180 MHz	15 3/16"	350 MHz	7 3/4"
35 MHz	82"	75 MHz	39 7/8"	190 MHz	14 5/16"	375 MHz	7 1/2"
40 MHz	71 1/2"	80 MHz	36 3/4"	200 MHz	13 5/8"	400 MHz	7 1/8"
45 MHz	63 3/4"	85 MHz	33 3/4"	210 MHz	12 7/8"	425 MHz	6 9/16"
50 MHz	57"	90 MHz	32 5/8"	220 MHz	12 1/4"	450 MHz	6 1/8"
55 MHz	54 1/2"	95 MHz	30 5/8"	230 MHz	11 9/16"	475 MHz	5 5/8"
60 MHz	47 1/4"	100 MHz	28 3/4"	240 MHz	11 1/8"	500 MHz	5 1/4"
65 MHz	45"	105 MHz	27 1/4"	250 MHz	10 5/8"	525 MHz	4 15/16"
70 MHz	41"	110 MHz	25 7/8"	260 MHz	10 1/4"	550 MHz	4 3/4"
		115 MHz	24 5/8"	270 MHz	9 15/16"	575 MHz	4 1/2"
		120 MHz	23 3/8"	280 MHz	9 11/16"	600 MHz	4 3/8"
		125 MHz	22 3/8"	290 MHz	9 3/16"	625 MHz	4 1/8"
		130 MHz	21 1/2"	300 MHz	8 3/4"	650 MHz	4"
		135 MHz	20 3/4"	310 MHz	8 5/16"	675 MHz	3 13/16"
		140 MHz	20 1/8"	320 MHz	8"	700 MHz	3 11/16"
		145 MHz	19 3/8"	330 MHz	7 13/16"	725 MHz	3 7/16"
		150 MHz	18 3/4"	340 MHz	7 11/16"	750 MHz	3 1/4"
		155 MHz	18"			775 MHz	3 1/8"
		160 MHz	17 1/4"			800 MHz	3"
		165 MHz	16 5/8"			825 MHz	2 15/16"
		170 MHz	16 1/8"			850 MHz	2 7/8"
		175 MHz	15 5/8"			875 MHz	2 11/16"
		180 MHz	15 3/16"			900 MHz	2 5/8"
						925 MHz	2 5/8"
						950 MHz	2 5/8"
						975 MHz	2 5/8"
						1 GHz	2 5/8"