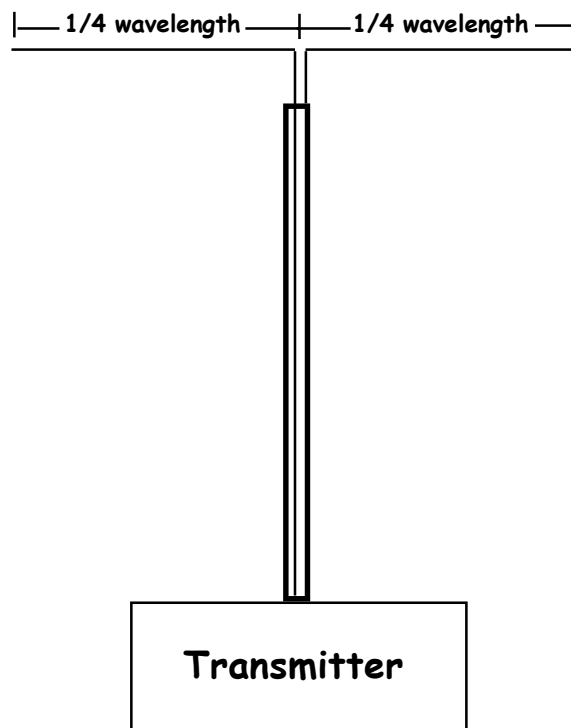


Multi-Band Di-Pole and Half Wave Length Line Dimensions

Band	Band Center			CW Band			Phone Band			
	In Mtrs	Ant	0.66 Line	0.81 Line	Ant	0.66 Line	0.81 Line	Ant	0.66 Line	0.81 Line
160		256'5"	178'1"	218'1"	256'5"	178'1"	218'1"	256'5"	178'1"	218'1"
80		124'10"	86'8"	106'2"	128'3"	89'	109'	120'	83'4"	104'9"
40		65'5"	45'5"	55'8"	65'11"	45'9"	56'1"	64'	44'10"	54'9"
20		33'	22'11"	28'1"	33'2"	23'1"	28'.3"	32'9"	22'9"	27'11"
15		22'	15'4"	18'9"	22'1"	15'4"	18'10"	21'11"	15'.3"	128'8"
10		16'3"	11'3"	13'10"	16'7"	11'6"	14'1"	16'.1"	11'2"	13'8"

$$\frac{1/2 \text{ wavelength} = 468}{f \text{ Mhz}}$$



Wire used to construct these antennas were AWG insulated 12,14 & 16 Insulated wire provides an additional safety factor, can be run through trees and is convenient for multiconductor antenna application