

Dipole Antenna Worksheet

Band/Frequency	Overall Length	Length @ Side	Rope Length

Step One: Band Frequency Divided by 468 (Half Wave)

Band Frequency Divided by 234 (Quarter Wave)

Step Two: Find Overall Length of Antenna Wire*

***Divide by 2 to get Length for Each Side of Dipole**

Rope Length is determined by height of dipole and anchor distances

Nylon cord of substantial length preferred for hanging wire from tree limbs at a height to allow for raising and lowering each end of dipole.

12 AWG Copper wire (Stranded) used here on all dipoles up to 80m.

Ring Tongue Connectors (Yellow Insulator) used on stripped wires to allow for mounting on a stainless steel screw/bolt drilled and mounted on a flat piece of insulated material (Lexan plexiglass) cut rectangularly.

Size or dimensions to allow for 5 drilled holes:

One at center of TOP for rope lowering/raising from pole or tree.

Two on each end of insulated device for wire mounting.

Two holes near bottom center of insulated device about 1" apart

To allow for a zip tie to act as strain relief for coaxial cable

Use a type that allows for Ultraviolet protection if antenna is to stay!

Email us for possible assistance in obtaining some of the items?

Good Luck and Good DX with your finished project!!

**de N4EMP
Ham Nut**