



Wires live or
Ladder Line →

300 Ω
450 Ω

Homemade
IPTO 600 Ω

Center Fed Zepp or tuned doublet antenna typical configuration. Keep coax lines as short as possible. Mount 4:1 balun outside of shack and feed coax inside to tuner.

Mount as high as possible or at least 30 feet above ground.

Advantages: all band coverage, low weight and cost, gain at higher frequencies.

© Palomar Engineers, 2016
Palomar-Engineers.com

Cut to 1/2 wavelength (468/F(MHz)) total length of lowest frequency of operation.

160 meter lowest = 254 total, 127 feet per side
80 meter lowest = 134' total, 67 feet per side
40 meter lowest = 67' total, 33.5 feet per side

4:1 Balun

Short Coax

Antenna Tuner

Noise Filter

Transceiver

Amplifier

Coax

Optional

Same Setup for Loop.

EXCEPT: Wire length = $F \cdot \lambda$

Wave length $\left(\frac{1005}{F \text{ MHz}} \right)$

Enclosing as much space as possible