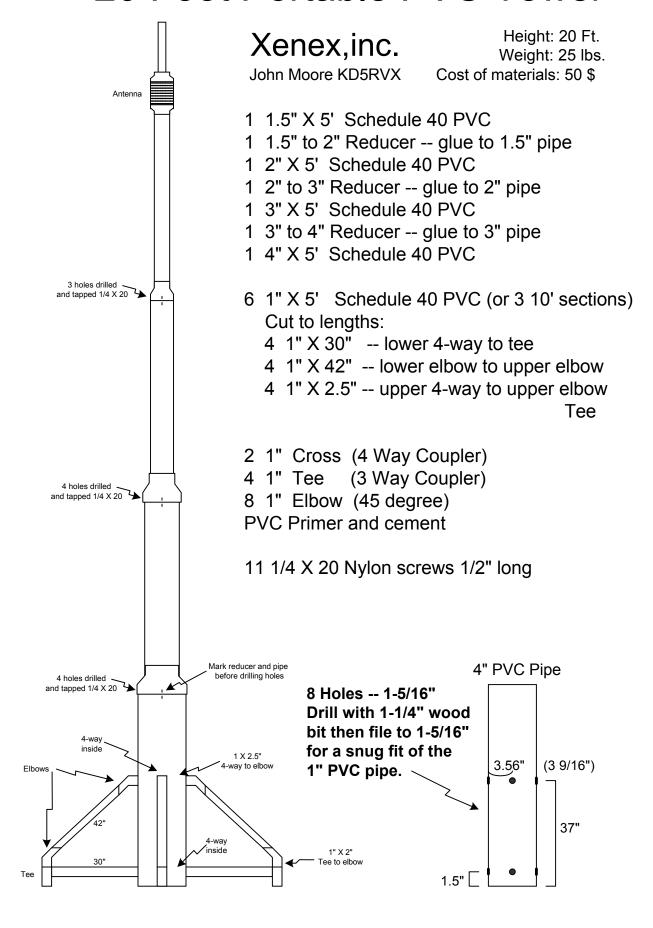
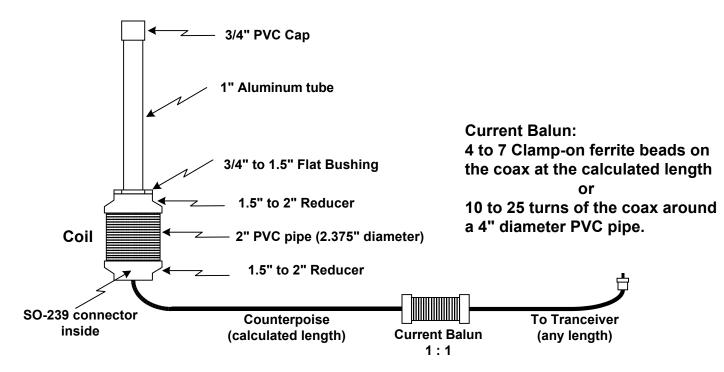
20 Foot Portable PVC Tower



KD5RVX MicroVert Antenna



Formulas

Ls = 185 / F

Where:

Ls = radiator length in inches

F = freq in megaHertz

Cs = 0.485 Ls (1 / log (0.575 (Ls/d)))

Where:

Cs = radiator capacitance in pF

Ls = radiator length in inches

d = radiator outside diameter in inches

 $L = (159 / F)^2 / Cs$

Where:

L = inductance in microHeneries (uH)

F = Freq in megaHertz

Cs = radiator capacitance in pF

Coil Winding

$$L = \frac{d^2 t^2}{18d + 40b}$$

Where:

L = inductance in uH

d = coil diameter in inches

t = number of turns

b = coil length in inches

Coax Counterpoise Length

Lx = 190 / F

Where:

Lx = counterpoise length in feet

F = freq in megaHertz

Juergen Schaefer, DL7PE, is the author and designer of the "DL7PE Microvert "antenna. This information is restricted to the private and personal use of radio amateurs. Commercial use is not permitted.

References:

[1] Jurgen Schaefer DL7PE-Microvert AntenneX.com , 2001