

All coils are wound on 1/2 inch CPVC tubing which is 5/8 inches O D . And all coils are made of #14 solid copper wire.

Two Meters is the only band with insulation left on 6 3/4 inches of the wire, all other bands use bare #14 wire

If CPVC diameter is changed all coil information is invalid. If pvc is used the frequency of the coils will vary.

Two Meters coil form is cut about 6 inches long, holes are centered and drilled being held in a vice, drilled centered, and 1 1/2 inches apart. on the form 1/8 inches in diameter, then two more holes outside of these to feed the radiator elements out true. There are 3 windings in between where the wire ends come out true the tubing and left about 1/2 inch long. Wire insulation is about 6 3/4 inches left on the wire for two meters.

The 220 band holes are drilled 1 inch apart with no insulation on the #14 solid wire. Then holes for the radiator wire to feed out is drilled about 1/2 inch out from these holes. There is 2 wires in between the end wires on the coil for this band.

On the 440 band the holes are drilled 1 1/4 inches apart with 2 turns in between the end wires. Two more holes are drilled like the other bands for the radiator wires to be fed out thru.

Two meter coils can be used also for a dual band antenna by cutting the radiators for the lower part of two meters and compromise tuning the J match for both bands. By varying the coil wire spacing you can get either up tilt or down tilt on the antenna, as for a repeater on a mountain top.

1/16 or 1/8 inch does wonders on up or down tilt.

This is the coil information for my antenna design.

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