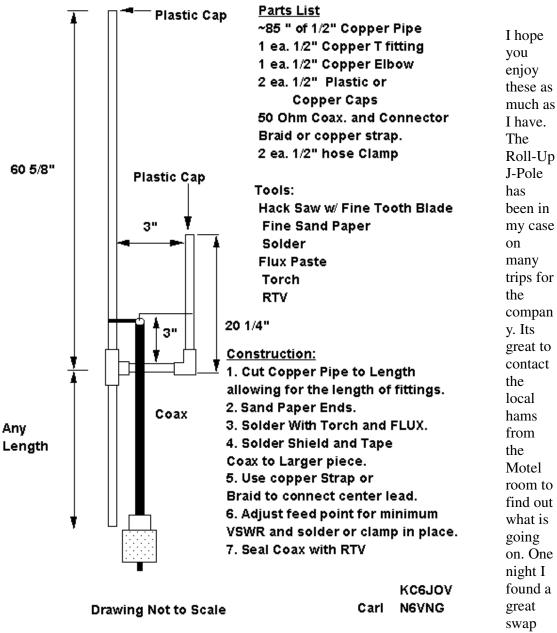
J-Pole Antennas for 2 Meters

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This paper describes two types of 2 meter J-Pole antennas, one made of copper pipe and a roll-up J-pole made of TV twin lead. The figures give the details of the dimensions, components and construction.

2 Meter Copper J-Pole Antenna



meet in Huntsville AL.

Roll-Up J-Pole Antenna for 2 Meters

- 1. Cut a piece of standard 300 Ohm Twin Lead to about 60" long.
- 2. At one end strip off 1/2" of insolation from both conductors.
- 3. Twist the ends together and solder them. Insulate with tape.
 The following measurements are from the soldered end
- 4. Cut a 1/4" notch in one conductor 16.875"=16 7/8".
 - Do Not remove the rest of the conductor.
- 5. At 1.5" from the shorted end, remove enough insolation from both conductors to connect the coaxial feed line.
- 6. Connect the coaxial line shield to the 167/8" side.
- 7. Connect the coaxial center conductor to the long side.
- 8 For support and protection, put a piece of heat shrink or plastic tape over each of the solder connections.
- 9. Punch a small 1/8" hole in the insolation at the open end to hang the J-Pole.

 A small string or Tie-wrap works well to pin the J-Pole to a curtain.
- 10. Tuning: If you use the exact dimensions shown below the antenna will be resonant in the two meter band. Prune the open end a little if not exact with an SWR meter to determine minimum reflected power.

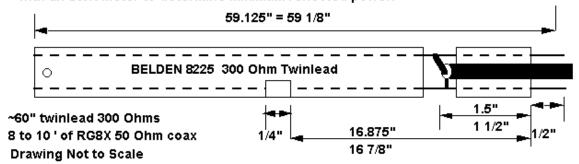


Table 1. Scaling for other frequencies.

J-Pole Scaling	JPOLESCL.xls			
Dr. Carl O. Jelinek				
2/28/96 20:26				
Roll-up J-Pole				
Frequency (MHz)	147	223	440	28.4
Total Length (in.)	59.125	38.975	19.753	306.034
To Notch {in.}	16.875	11.124	5.638	87.346
Stub {in.}	1.5	0.989	0.501	7.764
Copper J-Pole				
Frequency (MHz)	146	223	440	28.2
Total Length {in.}	60.625	39.692	20.116	313.874
To Notch {in.}	20.25	13.258	6.719	104.84
Stub {in.}	3	1.964	0.995	15.532
Spacing {in.}	3	1.964	0.995	15.532

Frequency: in MHz

73 de Carl N6VNG.