70 cm/2 meter Half-Wave Flower Pot Antenna
a la M0MSN and VK2ZOI

Materials

- ❑ 4 feet of 1 inch pvc pipe
- ❑ RG-8X Coax
- ❑ Heat shrink tubing to fit coax
- ❑ Rosin core solder.
- ❑ 12-gauge solid wire.
- ❑ Tin foil at least 4 inches (102 mm) wide
- ❑ SO-239 connector

Procedures

□ Step 1. Cut the pvc into a four foot length.

□ Step 2. Strip back about 2 inches of one end of the coax removing all of the outer shield.

□ Step 3. Push heat shrink tubing over the coax.

□ Step 4. Strip the center insulated core and tin with rosin core solder.

□ Step 5. Heat the heat shrink tubing so that it covers the joint between the insulated center and the outer covering of the coax.

□ Step 6. Cut 19 inches of the 12-guage wire and solder to the center of the coax prepared in the above steps.

□ Step 7. Put heat shrink over the joint of the 12-guage wire and the center coax wire and heat.

□ Step 8. Measure 18 ¾ inch (47.7mm) and this spot. This is the center point of the dipole.

□ Step 9. Measure 18 ¾ inch (47.7mm) from the center point and mark. This will be where a hole will be drilled. Below this hole will be 9 turns of coax.

□ Step 10. Temporarily wrap 9 turns of coax starting at the lower mark of the preceding step and mark for another hole to be drilled.

□ Step 11. Drill out the two holes with a bit sized to allow the coax to fit.

□ Step 12. Measure 18 inches (45.7 cm) from where the coax insulation ends to the end of the 12-gauge wire and mark.

□ Step 13. Measure 17 5/8 inches (44.7 cm) down the coax from where the coax insulation ends at the 12-gauge wire joins and mark. This is where a piece of tape will be put and indicates where the coax will come out of the first drilled hole. The 9 coax turns start at this mark.

☐ Step 14. Push the 12-guage wire into the top hole so it goes up and out the pvc pipe. Attach string or fishing line to the 12-guage wire to later attach it to the end of the pvc pipe.
☐ Step 15. Carefully pull coax back until you see the top of the top. Then, make the 9 turn raps of oax and push back into the hole and out the bottom.
☐ Step 16. Pull the 12-gauge line at the top of the pole tight and attach.
☐ Step 17. Cut 9 ¼" (235 mm) of tin foil to wrap around the pole.
☐ Step 18. Wrap foil at exactly the midpoint of the dipole.
☐ Step 19. Add an SO-239 at the end of the coax.

Video

https://www.youtube.com/watch?v=CoNYdmRagbs

Article

https://vk2zoi.com/articles/dual-band-half-wave-flower-pot/