2 Meter Dipole

Description

A 2 meter dipole that uses copper tubes for the horizontal arms, pvc to attach the horizontal arms and support the entire diapole. It also includes a choke of 5 wraps of RG-58 just under the join of the pvc tee and pvc pipe. A female SO-239 connector provides for connecting the antenna.

Materials

- ❑ ½" pvc pipe about 12" long
- ❑ ½" pvc tee
- ❑ 2 – ½" hose clamps
- ❑ 2 – copper pipes 18.5" long (diameter not specified, but small)
- ❑ RG-58 cable
- ❑ SO-239 female connector

Procedure

- ☐ Step 1. Connect the pvc pipe and the pvc tee. No pvc glue was used in video. They tapped it on with a hammer.
- ☐ Step 2. Put hose clamps around the open end of the tees.
- ☐ Step 3. Flatten one end of each copper tube with a hammer.
- ☐ Step 4. Attach one copper tube on each side of the tee by putting the flat end under the hose clamp and tightening very well. Make certain the two copper tubes are spaced far apart on the tee.
- ☐ Step 5. Open one end of the RG-58 cable so that the braiding can be twisted into a solid wire resting on the center insulation and the center of the RG-58 is barred so it is about 3 inches long. Leave center insulation to keep the center and the braid insulated from each other.
- ☐ Step 6. Tin the center and braid exposed in the previous step.
- ☐ Step 7. Heat up the ends of the flattened copper pipes that protrude on the inside of the hose clamps. Attach the braid with solder to one of the flattened copper sections and attach the center to one of the other flattened copper sections.
- ☐ Step 8. Wrap the loose end of the cable 5 times around the vertical piece of pvc. Make the loops tight and adjacent (contacting) each other but not overlapping.
- ☐ Step 9. Tape down the loops with black electrical tape.
- ☐ Step 10. Attach the SO-239 female connector to the other end of the RG-58 cable and use a heat shrink to hold in place.

Video

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