### 30-meter Magnetic Loop Antenna
20 Feet (6.1 Meter) Circumference

- **6.37** feet (194 cm) of tubing
- **1.27** feet (38.7 cm)
- 20 feet (610 cm) of 1/4” ID/3/8” OD copper tubing
- **4.53** feet (138 cm) of center conductor + dielectric from RG-8 or RG-213 inserted symmetrically into both sides of tubing.
- **4** feet (122 cm) of #12 AWG THNN house wire. Ends are soldered to flange and center pin of SO-239 coax socket.
- **10** feet (305 cm) of 1 1/4” PVC water pipe.
- **6** inch (15.25 cm) stubs of #12 AWG THNN house wire soldered to outside of tubing. Bend stubs to fine-tune after gap is sealed and locked with Goop or similar sealant.

Direct feed with coax. No other balun or matching network is required.

Spacing between large and small loop is 0.5 inch (1.5 cm).