

# Station Coax

This is how VA7FI manages his coax runs into the house. It's meant as an example to help people get started, not as a definitive authority on the subject. [Feedback is always welcome.](#)

## Outside

On the coax side:



- LMR400 is used for most antennas to the transition box.
- The box shown here is 9"×9"×4½", but I would probably use the next size up if I did it again: there's never enough antennas!
- Two pieces of flattened copper pipe are used as bus bars.
- The coax from the antennas connects into the [coaxial lightning protectors](#) (also referred to by one of the brand names: *Polyphaser*), which are mounted on the bus bars, which are grounded.
- From there, RG-8X coax is used to go inside the house.

On the grounding side:

- The antennas up the tree are grounded to a few ground rods and a ground plate.
- Those are bonded to the ground plate that connects to the transition box.
- That is also bonded to the utility ground of the house.
- And is bounded to a central grounding point inside the house.

## Inside

