

My Own End Fed Wire Antenna

Materials

Item	Vendor	Price
9:1 Balun	Homemade	\$50.00
No 22. Poly-Stealth Antenna Wire 150 ft.	Amateur Radio Supplies	\$29.99
18 AWG GPT Wire Black 500 ft.	wireandcableyourway.com	\$34.00
1:1 RF Choke	Homemade	\$20.00
Connectors and Insulators		\$25.00

Construction

- Construct balun first and attach eyebolts at top (strain relief for radiator), left (radiator feed), right (ground connection), and bottom PL259 panel mount (coax connection from transceiver output).
- Cut antenna wire to 148 feet. One commercial antenna is 141 feet. Other good lengths are 64-67 71 84 107 119 feet. The 64-67 is based on the USA HF frequencies.
- Run antenna from a connection to the inside of the parapet above the shack. Make this the location of the balun.
- Run antenna up to the top of the “chimney” and insulate here.
- Continue antenna from the “chimney” down to another anchor point inside of the parapet on far side of house.
- Ground wire:
 - Start by connecting to the ground rod by the shack.
 - If too noisy, run a long 18 AWG insulated wire across roof, down the downspout, and connect to system of radials.
- Do not let the coax feed line or the ground line run under the antenna radiator.
- Do not let the coax feed line and the ground line cross each other.

Reasons for Making Your Own

- The wire most commercial outfits use is 16 or 18 AWG. Too thick to be very stealthy.
- The balun is really relatively simple to make.
- Without the choke, the cost is only \$105.00.
- The balun can be setup to match my layout needs.