

# Quarter-Wave groundplane antenna for 2 meters FM

by AA1PG based on previously published material  
(I measured the one my wife N1VZU built in 1996 from a magazine)

Cost - \$3.00(+/-)

## Parts List

1 - panel mount SO-239 UHF connector  
3 lengths scrap #12 electric copper wire insulated or non-insulated  
scrap ribbon from birthday or christmas present

## Tools

Large soldering iron or soldering gun  
solder  
pliers  
BMWC - big-mucker wire cutters

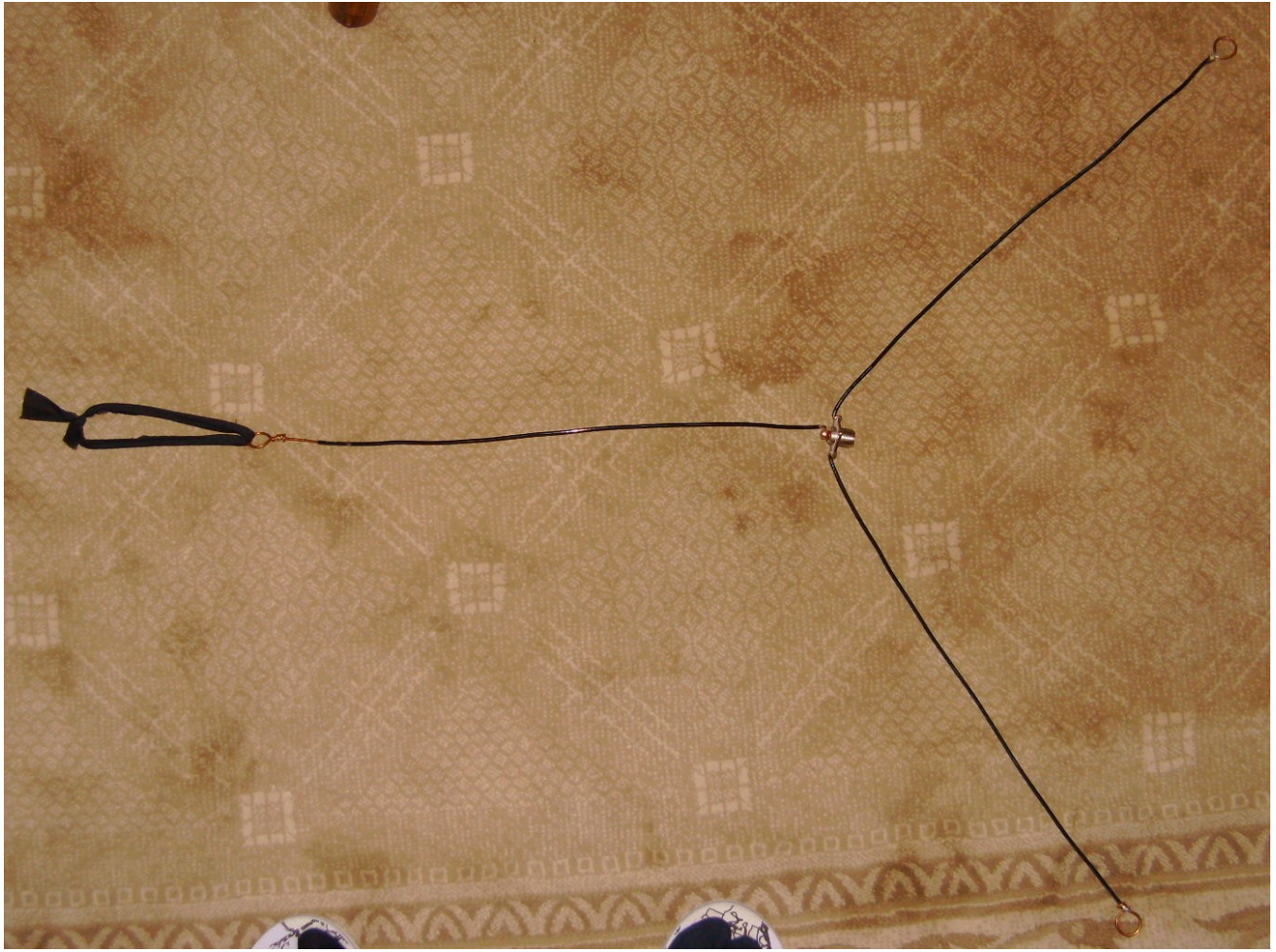
## Dimensions

17 3/4 " from SO-239 to wrap  
18 3/4" from SO-239 to end of loop  
1/2" loop and about 1/2"wrap

## Instructions

See the pictures, make yours like the pictures.  
Use plenty of heat on the SO-239 and the wire.  
Make sure the solder flows thoroughly and fills the holes.  
Use coax no smaller than RG-58, RG-8X preferred.  
Don't use that 174 stuff unless very short run.  
Hoist this antenna as high as you can get it, in a tree,  
the gable end of your roof or other skyhook.  
If you want, you can try to waterproof the connector,  
but good luck, you live in Texas! (you know, drought, no rain...)  
Talk to repeaters your rubber duck antenna never knew existed.  
Even on 2 watts! But watch it, small coax (RG-58 is small) sucks up  
VHF energy, that's why we want RG-8X at minimum for longer runs.

Pics next page:



More pics next page:

