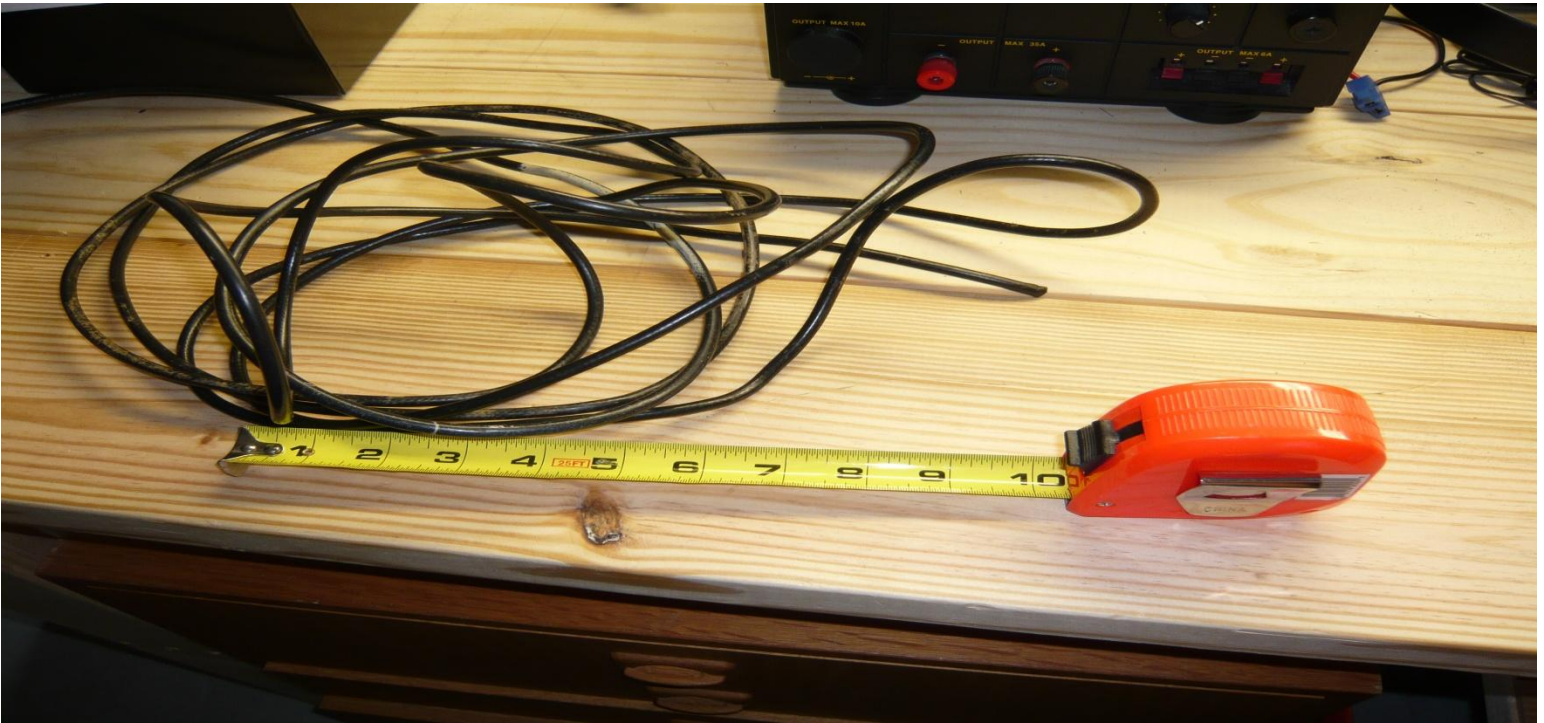


# Building a 1:1 Balun

W4DIH



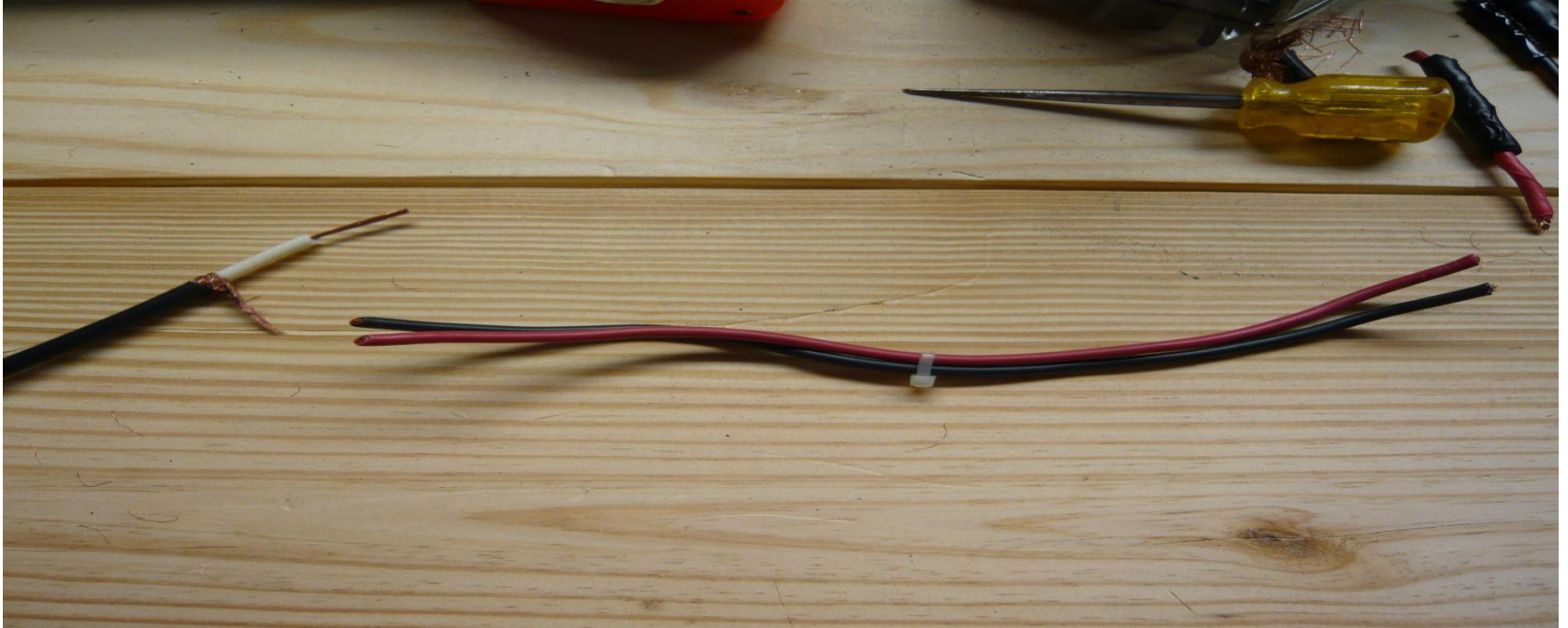
Find a piece of RG8, 8X etc. between 18 and 21 feet long.



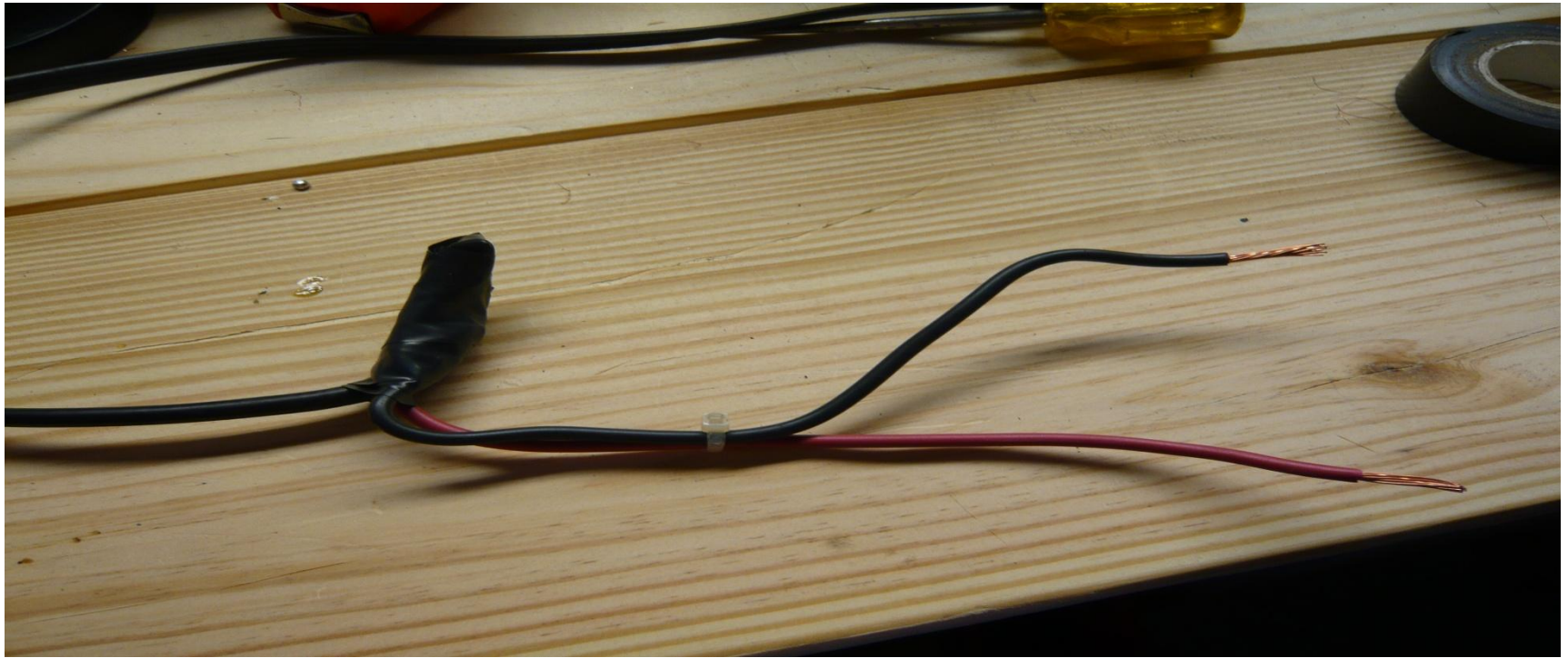
Locate a pill bottle or other non-conductive cylinder or piece of PVC pipe at least 3" in diameter. I used my XYL's vitamin bottle . I put the pills in a sandwich bag.



Punch or drill 2 holes near one end about an inch apart from each other. Insert a tie wrap or string thru one hole and out of the other hole. This will secure the coax.



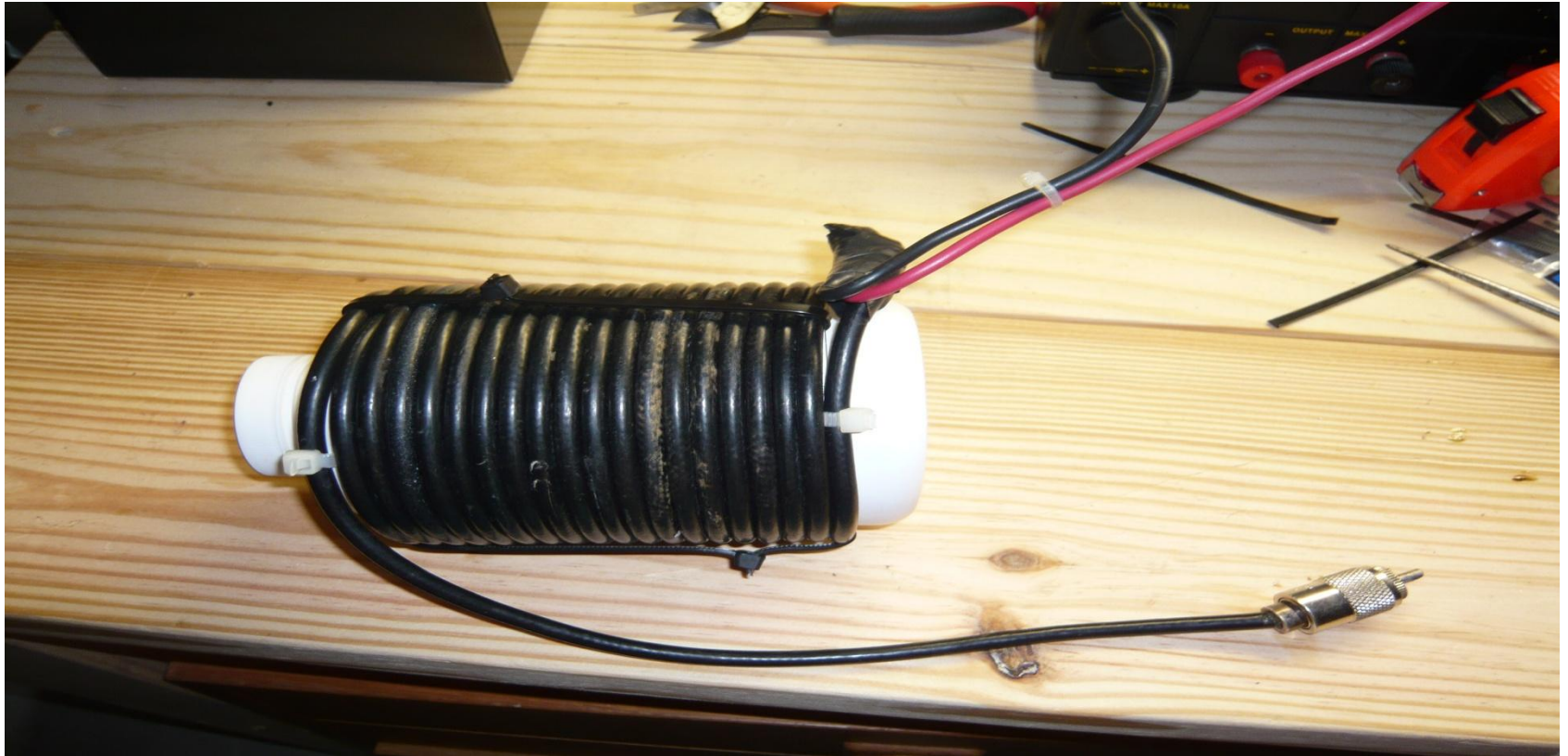
Prepare the end of the coax as shown., to be soldered. Locate 2 pieces of wire 16 to 14 AWG, about 8" long.



Solder and tape the connections. Remember which is the center conductor and which is the ground. That is why I like black and red. This is the Villages after all.



Now it is time to secure the end of the coax to the cylinder. Leave approximately 1" of coax past the ty-wrap and tighten securely.



Now wrap the cylinder with the coax evenly. Do not leave any gaps and do not cross over the wire. Secure the coax at the end with another ty-wrap that goes through the cylinder.





Install a coax connector on this side of the balun. Use three ty-wraps slide under the turns of the coax to help hold them together.



The End