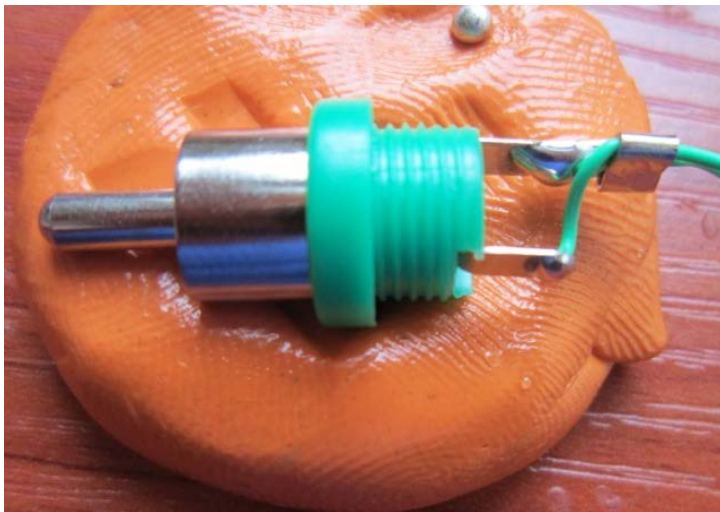
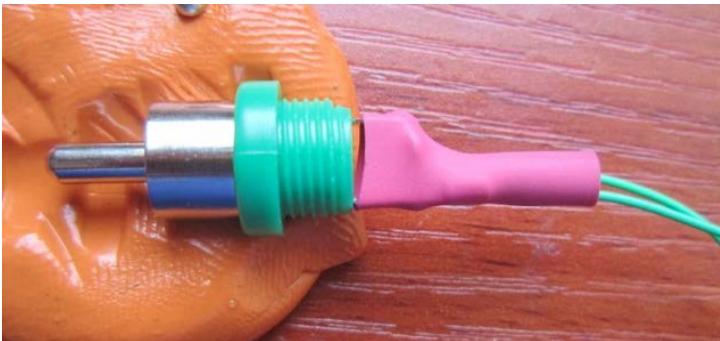




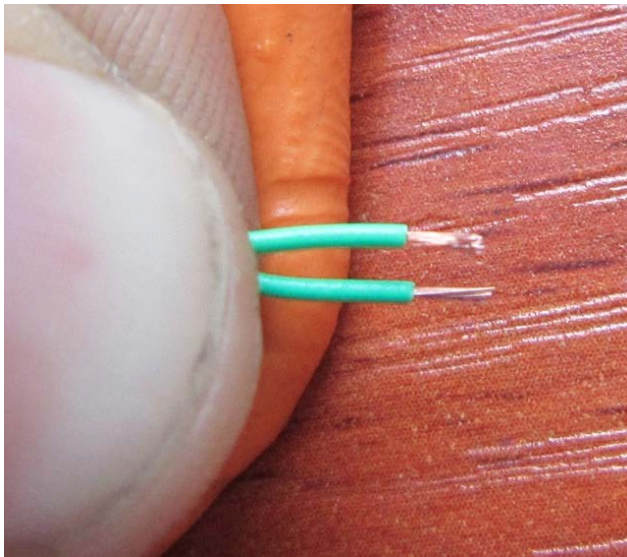
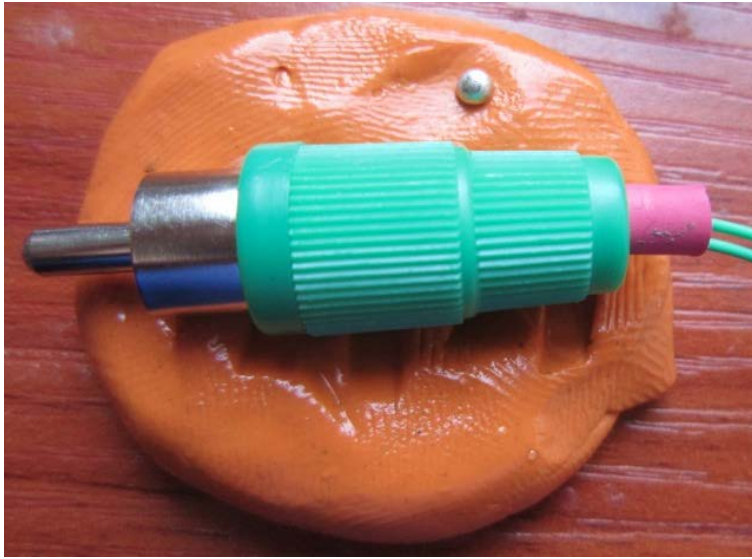
Cut two lengths of 7 inches of the green microwire (I left some with the RoboRoach supplies)



Solder to green RCA connector



Put $\frac{3}{4}$ inch heat-shrink on, and glue and screw on cap like in our normal electrodes



If the other ends are not flush, cut to make both ends same length and strip 1/16 inch of insulation



Note we are using slightly bigger wire than than the RoboRoach electrodes. I left a roll of this with Teddy's RoboRoach supplies



Cut $\frac{5}{8}$ inch lengths of the silver wire, and burn off the ends with a lighter



Using your forceps, make a hook of the end of each wire segment

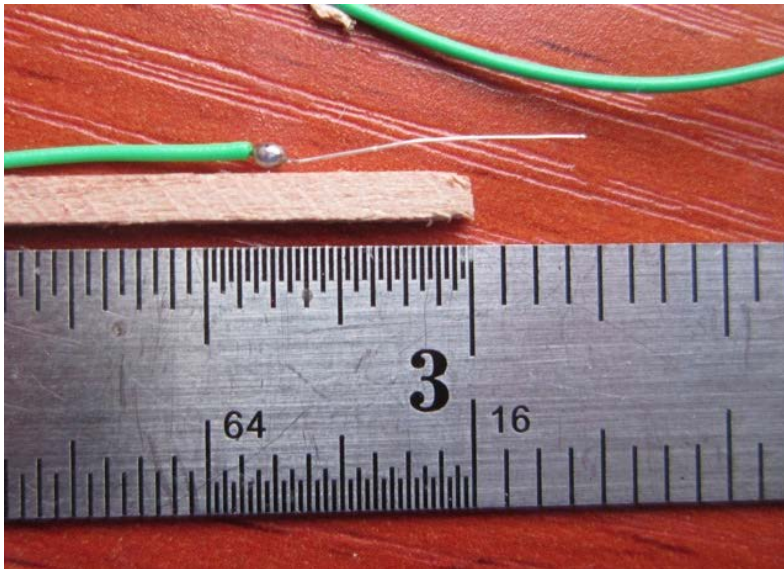


This will require a visit to the hardware store. This looks better than the toothpicks. These are rectangular dowels at 2 mm on a side. Cut to 2.75 inches with a small hack saw or scalpel blade, and sand cut ends lightly to remove splinters and make look niiiiice.

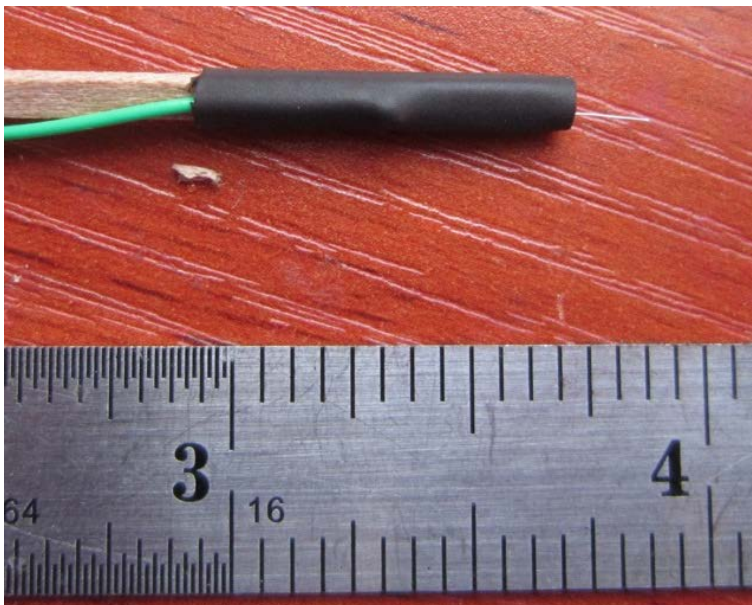
See if you can find one at the hardware store on North Campus. Circular will also work, as long it is ~2 mm (or $\frac{3}{32}$ inches) in diameter. I would ultimately like to go to a plastic version...I ordered some components off Grainger for you to experiment with.



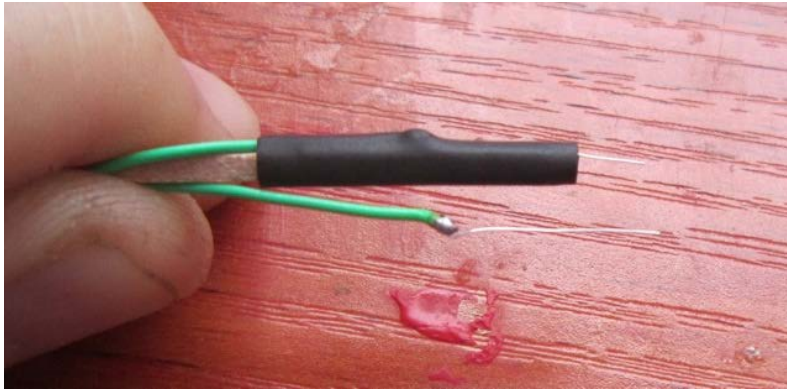
Cut three lengths of heat shrink tubing. Note this is smaller than our standard heat shrink tubing. This is .187 inch outer diameter (before shrinking) for 20-18 gauge, unlike the standard we use, which is .25 outer diameter, for 12-16 gauge. I have ordered some from Grainger, but you can get some from hardware store in interim



Having exposed wire overhang by $\frac{3}{16}$ of an inch, and....



Heat shrink it.



Now place second wire outside heatshrink, and also let hang 3/16 inch out, slide over another piece of heat shrink, and shrink again



Now slide remaining piece heatshrink over wood all the way to the end of the woodpiece, and...



Shrink it! Now, lightly twist green wire to make it coil a bit and look nice. Also trim the two silver wires so they are flush



What's nice about this new design is that the heatshrink and wood can comply a bit so that the electrode fits inside with a friction fit (no silly putty needed)



Finally, test the connections like you would our normal electrodes. You only need to lightly touch silver wire to test connection