EL Wire



suppliers

http://www.coolight.com JRS discount

http://www.livewireneon.com/ LA based

http://coolneon.com/ Great customer service

Soldering

Safety Light, Fumes, Heat

Solder "to make solid"

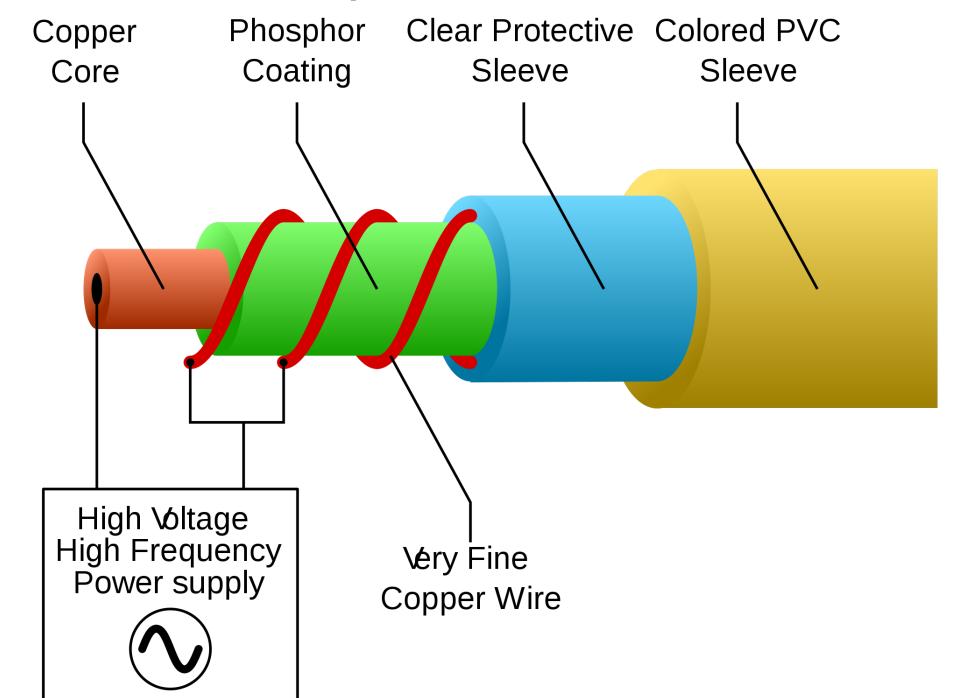
Mechanics electronic and structural

Tinning cover connections with a bit

Re-Flow applying heat to melt existing solder.

Heat wire, not solder

EL Wire Composition



EL Wire Vocab

copper core or magnet wire thickness varies

phosphor glows pink or blue

corona wires two 40 gauge tricky wires

clear sheath stability and structure

colorful softer sheath adds color and size varieties

driver provides alternating current of

90 - 120 volts at about

1000Hz

EL Tools - Specialty

Automatic wire strippers

great for sheath removal without damaging the corona

wires

helping hands

hold the soldering iron so you

don't have to

hot hot glue gun

makes heat shrink work

better

buttoneer

lazy way to attach el to

clothing and great for field

repairs

EL Tools

automatic wire strippers







helping hands







EL Types

1.5mm too fragile, cording foot

2.5mm standard, a little fragile

5mm super strong

tail wire made for sewing, but you

must plan ahead

EL Wire Class Supplies

5 feet el wire

1 el driver

batteries ???

heat shrink



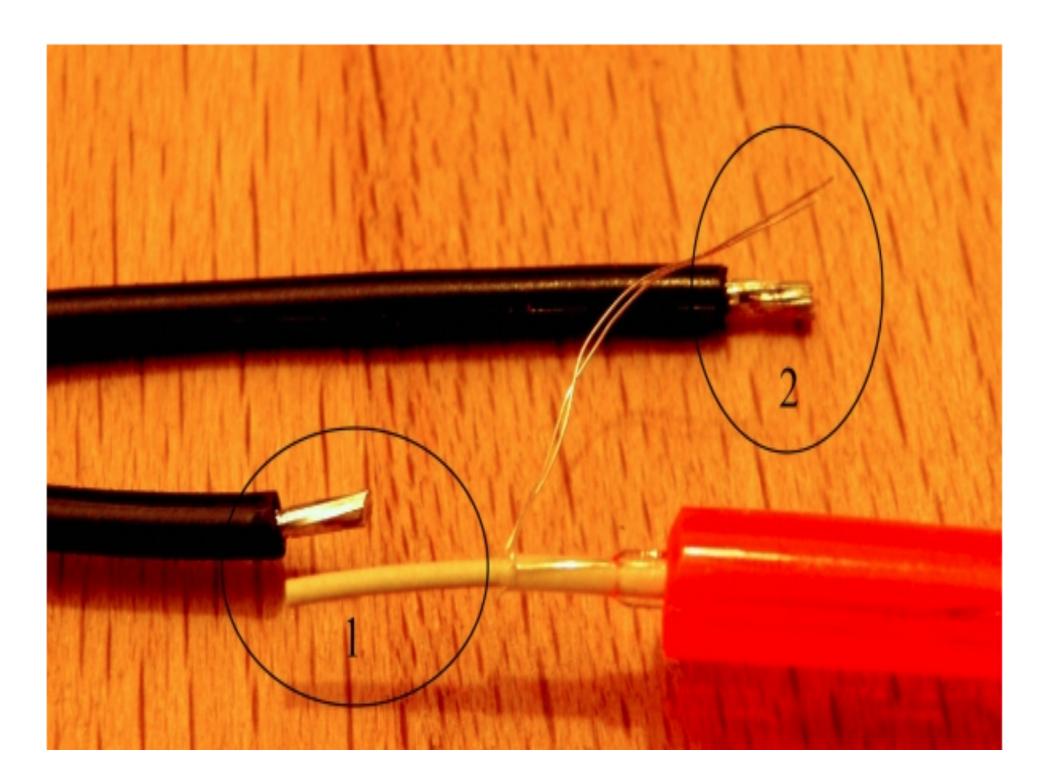
Steps

- 1. expose wires
- 2. tin
- 3. add heatshrink
- 4. solder
- 5. secure

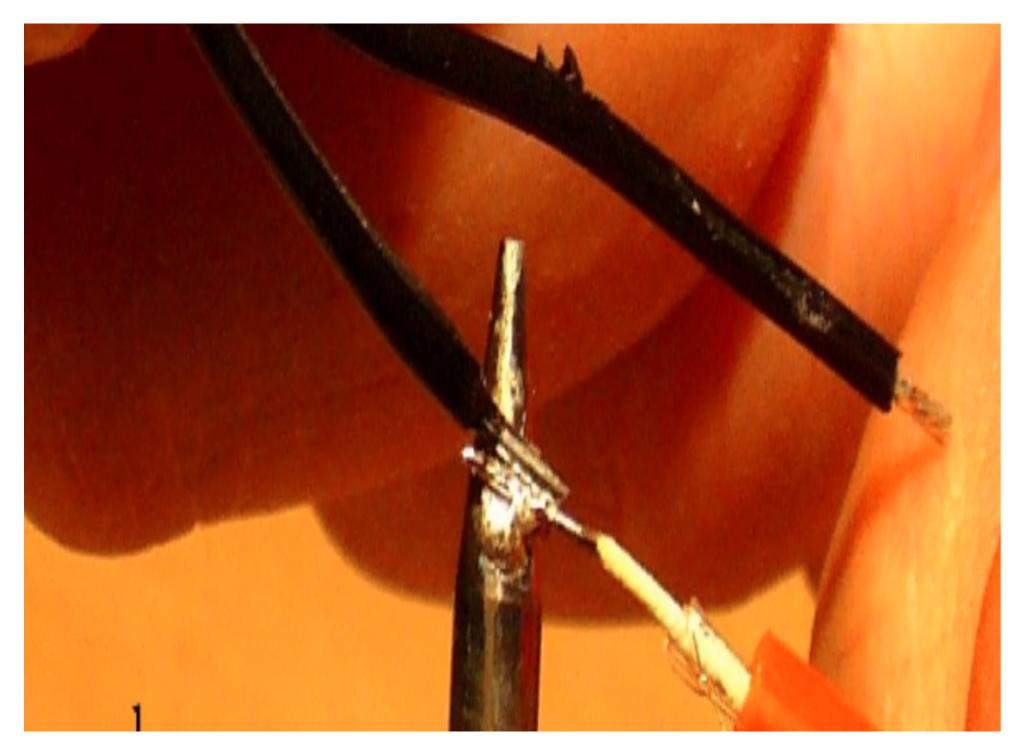
Steps

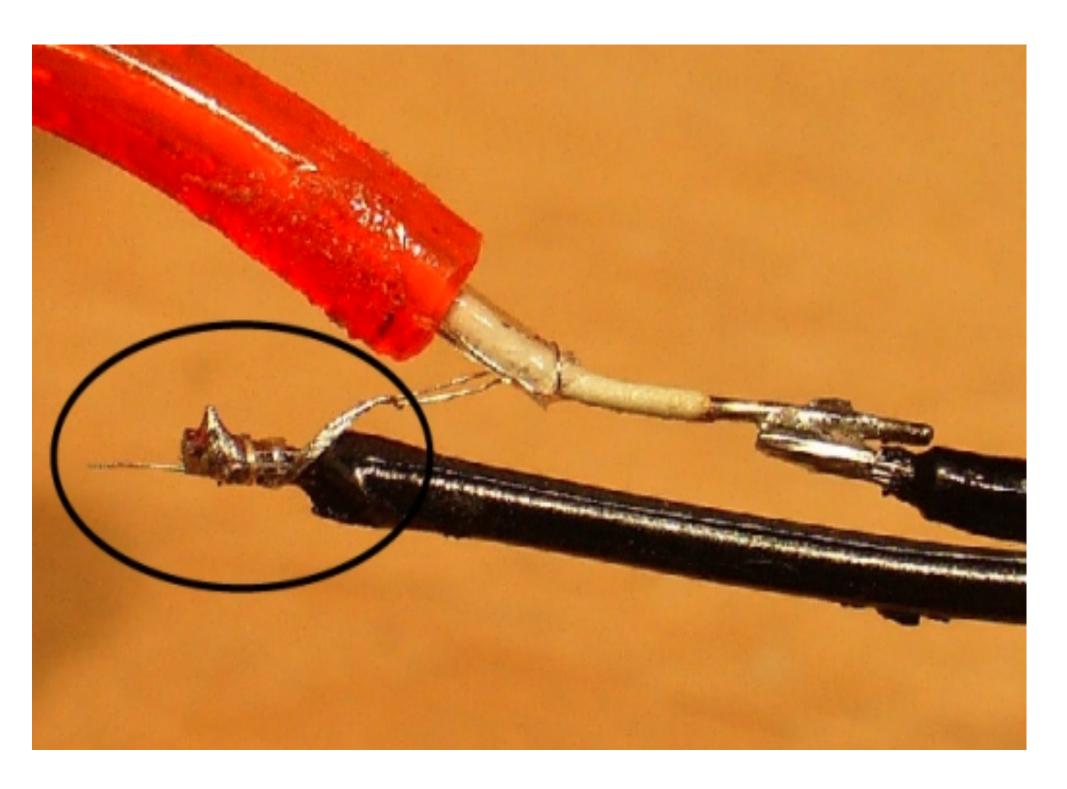
Strip outer coating Strip inner coating, revealing core and two corona wires Use a good wire stripper Test corona wires Scrape or BURN phosphor off main wire Thread heat-shrink tubing for later use A hands-free device A simpler device

Thread heat-shrink tubing Pre-tin core wire Solder core wire Trim sharp edges Test the core connection Solder corona wires twist corona wires about the tinned connection Apply heat-shrink tube Use some heat gun, lighter, or side of soldering iron



have you added heat shrink yet?





Add Power (EL Driver)



Sources

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- http://www.youtube.com/watch?
 v=MPDpl72RAhQ&feature=related
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