

ITEMS NEEDED

Caution: Solder and Soldering Irons are HOT

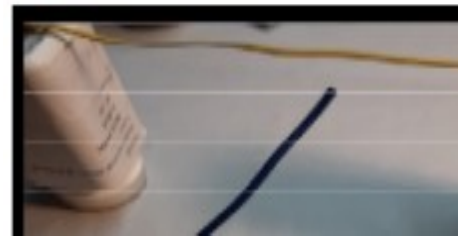
- Wire Stripper
- Lighter or Hair Dryer
- Side Cutter
- Heat Shrink
 - (Most common is 1/8, 3/16 and 1/4 inch)
- Rosen Core Solder (1/16 inch or less in diameter)
- Soldering Iron also known as a Soldering pencil
- Liquid Tape



NOTATIONS:

I am using two different color wires for demonstration purposes. I totally recommend that the colors should always be the same color.

When using a variable wattage soldering iron use a lower setting for soldering wire.

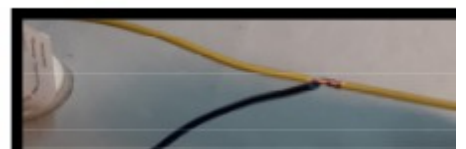
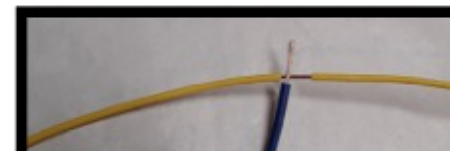


Directions:

1. Strip about 3/4 inch of insulation off of the wire to be joined.
2. Tightly twist together the strands of the stripped wire end.
3. Use the wire stripper and open 1/4 inch bare section in the existing wire.

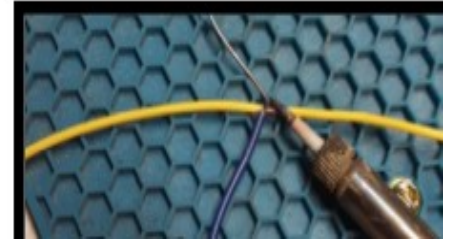


4. Lay the stripped end of the wire to be joined over the bare section of the existing wire.
5. Wrap the stripped end tightly around the bare section of existing wire.



LOTS D - Soldering 02 - JOINING A WIRE TO AN EXISTING WIRE IN THE MIDDLE – doc.doc

6. Take a hot soldering iron and place its point in the middle of the twisted wire joint. Allow the wire to heat for a few seconds.

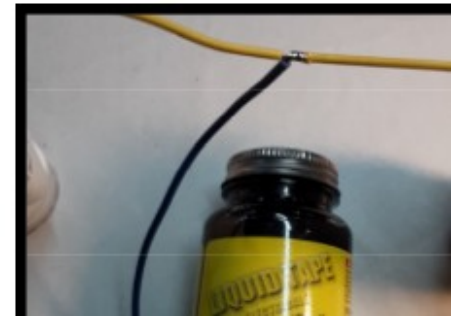


7. Feed solder to the heated twisted joint and the solder should suck into the wire.

8. After the solder has been sucked into the twisted joint, set aside the solder. Remove the soldering iron from the twisted joint and replace it in the cradle.



9. Let joint cool off a few seconds.



10. Cover the soldered joint with Liquid Tape.
- a. Cover the entire bare section of the wire with Liquid Tape.
 - b. Be careful because Liquid Tape is rubber-based, is runny and will drip. Liquid Tape is hard to get out of cloth.
 - c. Allow the Liquid Tape to dry for about 5 minutes or so.
 - 1. You can also wrap with Electrical or electricians tape rather than the liquid tape.



11. The joint is completed and it looks good.

