

JOINING A WIRE TO AN EXISTING WIRE IN THE MIDDLE

ITEMS NEEDED

Caution: Solder and Soldering Irons are HOT

Wire Stripper
Lighter or Hair Dryer
Side Cutter (Nickname Dyke)
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.

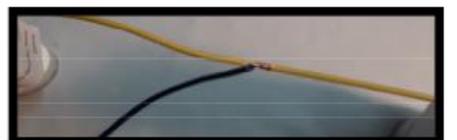
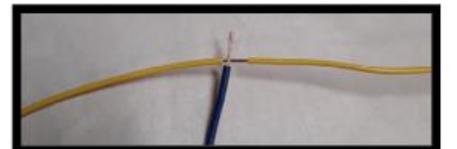
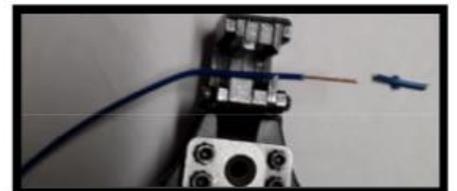


Directions:

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.

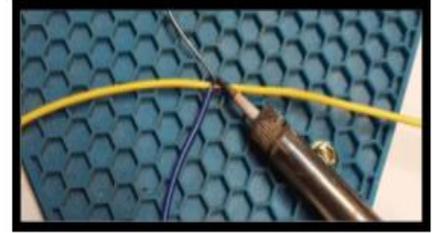


4. Lay the stripped end of the wire to be joined over the bare section of the existing wire.
5. Wrap the stripped end tightly around the bare section of existing wire.



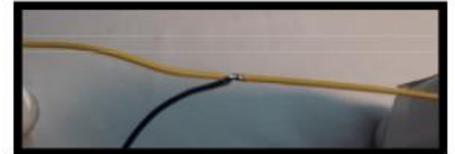
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6. Take a hot soldering iron and place its point in the middle of the twisted wire joint. Allow the wire to heat for a few seconds.

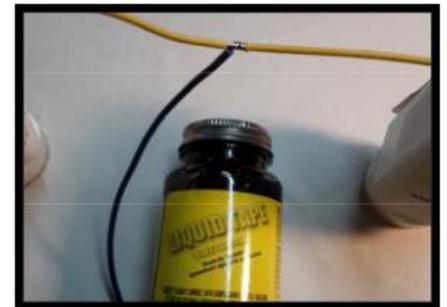


7. Feed solder to the heated twisted joint and the solder should suck into the wire.

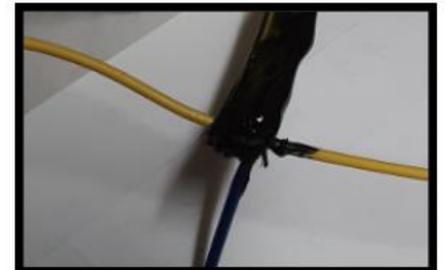
8. After the solder has been sucked into the twisted joint, set aside the solder. Remove the soldering iron from the twisted joint and replace it in the cradle.



9. Let joint cool off a few seconds.



10. Cover the soldered joint with Liquid Tape.
- Cover the entire bare section of the wire with Liquid Tape.
 - Be careful because Liquid Tape is rubber-based, is runny and will drip. Liquid Tape is hard to get out of cloth.
 - Allow the Liquid Tape to dry for about 5 minutes or so.



11. The joint is completed and it looks good.

