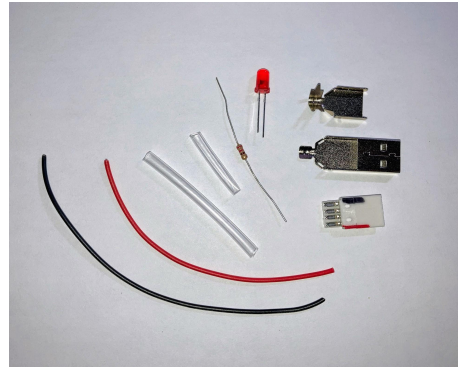


<https://www.instructables.com/Learn-to-Solder-USB-LED/>

- 4" Red (+) Wire, 5" Black (-/Gnd) Wire
- LED - long wire is Anode (+)
- Resistor:
 - 220 ohm for red, green, yellow
 - 120 ohm for blue, white
- Heat Shrink Tubing: 1" + 2"
- USB Soldering Connector

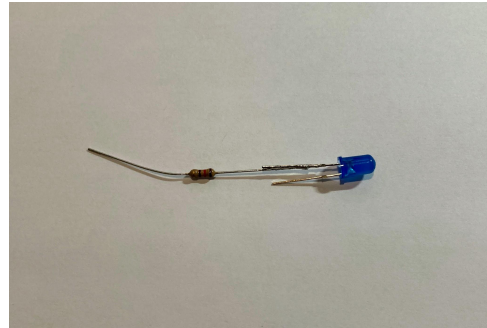


Soldering:

- Heat wires with Soldering iron 1 sec.
- Bring in Solder
- Remove Solder
- Remove Soldering Iron

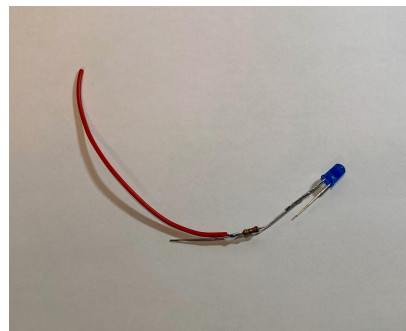
Solder Resistor to LED Anode (long wire)

Test the LED to Confirm Polarity

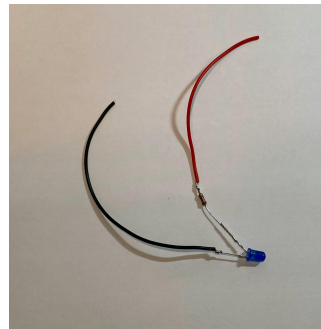


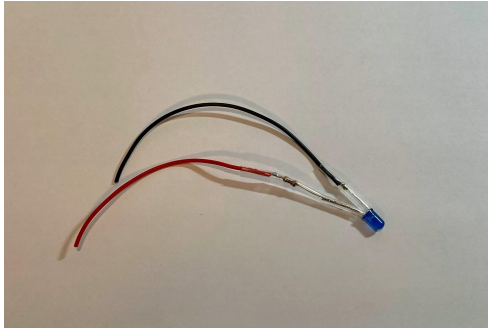
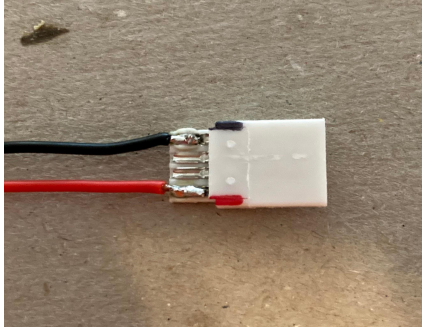
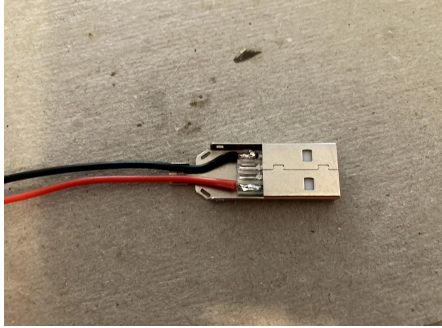
Strip 1/4" of Insulation Off of Red Wire
Twist Red Wire on Resistor and Solder

Cut off Extra Resistor Lead



Strip 1/4" of Insulation Off of Black Wire
Twist Black Wire on LED Cathode (short wire) at End
(away from LED) and Solder



<p>Add Heat Shrink Tubing and Shrink with Heat Gun</p> <p>Test the LED</p>	
<p>Trim Wires Evenly Strip 1/8" Off Both Tin the Plug and Wires First! Solder to USB Plug</p>	
<p>Put Plug in Housing Add Shield</p>	
<p>Bend Tabs Over</p>	