am-3543

12V Single Color RGB LED Hookup:

Component	Part Number	QTY
8ft LED Light Strip	am-3496	1
Red PowerPole Housing	am-2158	1
Black PowerPole Housing	am-2159	3
PP15 Crimp	am-3181	4
Tools (Not Included)		
TRIcrimp Tool	am-2554	
Wire Strippers		
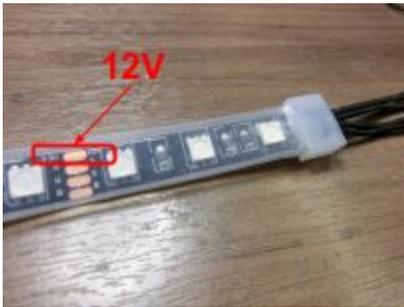
Assembly	
	1. Lay out the LED strip as shown so that the pad labeled 12V is at the top.
	2. Locate the Red Power Pole Housing, 1 PP15 crimp, and the wire closest to the pad labeled 12V
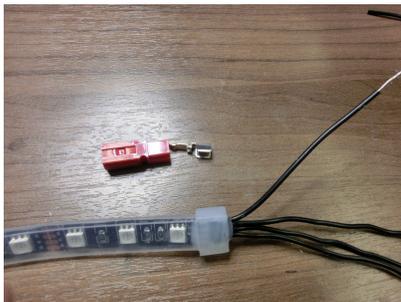
| | 3. Crimp one PP15 contact to the 12V wire. You may need to strip the wire in order to get a good connection. |
	4. Insert the crimped 12V wire into the Red PowerPole Housing
	5. Ensure that the crimp is fully inserted into the housing as shown.
	6. Locate the 3 wires adjacent to the 12V wire and repeat steps 3-5 using a crimp and black housing on each.
	7. The final assembly should be as shown.
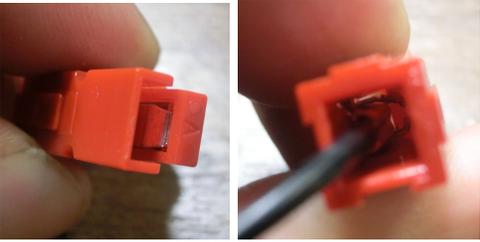
Testing

	1. Using a 12V battery, you can check your setup by plugging the 12V line into positive 12V power and another cable to ground.
	2. When the cable adjacent to 12V wire is attached to a power source, you should see BLUE lights Here is a closeup of the wires to show which ones are used to make BLUE.
	3. When the next wire over from the 12V wire is attached to a power source, you should see RED lights. Here is a closeup of the wires to show which ones are used to make RED.
	4. When the furthest wire over from the 12V wire is attached to a power source, you should see GREEN lights. Here is a closeup of the wires to show which ones are used to make GREEN.
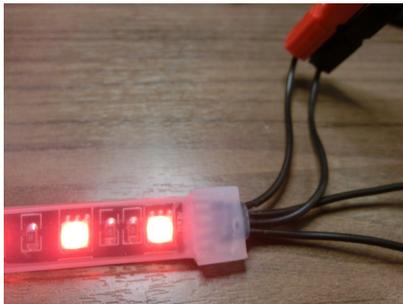
For more information on how to plug this into your FIRST Tech Challenge robot, we recommend reading these posts about how to use LEDs on your robot.
http://ftcforum.usfirst.org/showthread.php?6880-Sensors-Answer-Thread&p=30185&viewfull=1#post30185