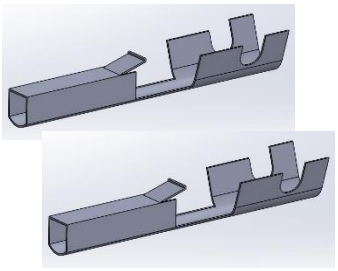
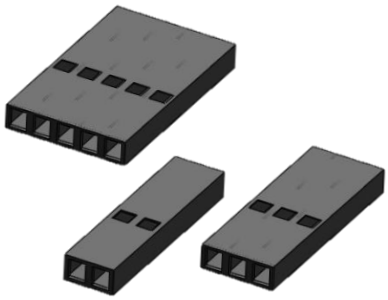
Engineering^3 - Wire Work/Sensor and Servo Wires

Parts

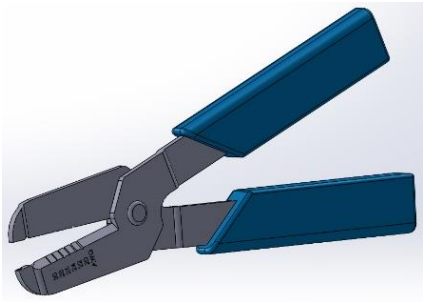
Molex Connectors and Hoods (used for LEGO Motors, Servo Motors, Sensors and other components to connect to Controllers)





Tools

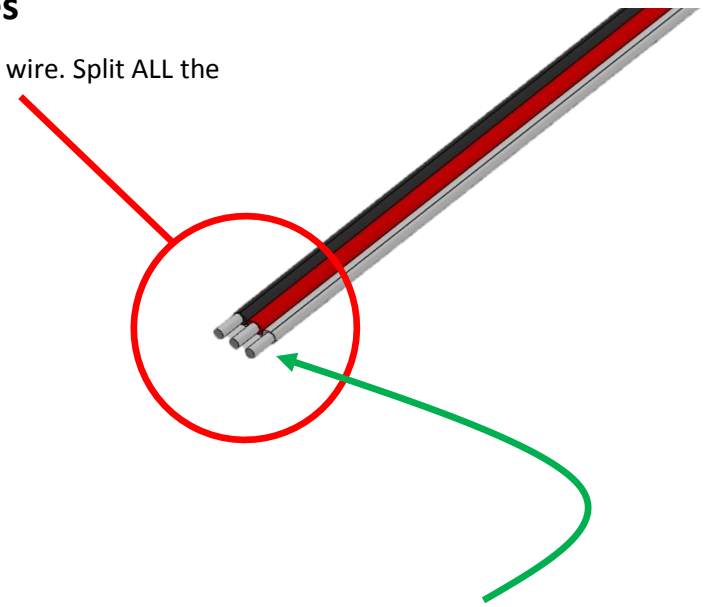
Nipper, Stripper (22 – 30 AWG), Crimper (Molex)



Installing Connectors on the Sensor/Servo Wires

Square Off and Split the Wires

Use the Nipper to square off the end of the wire. Split ALL the wires apart about an inch down the cable.



* These wires are often soft enough that they peel apart with just finger strength (no nippers needed). Be careful not strip out the sides of the insulating layer and expose the conductive core. If you do you will need to trim below the breech and start again.

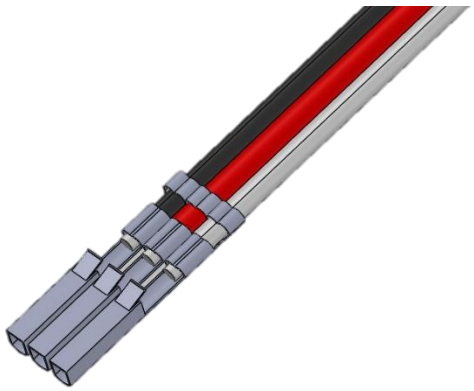
Strip the Wires

Follow the instructions in the **E3 Stripping Wire** document and use the Stripper to strip the wires about 1/8 of an inch.

* Use the 22 AWG position on the stripper (blue handled) to start. If you need to trim more you will need to move to the 26 AWG.

Crimp the Molex Connectors onto the Wires

Follow the instructions in the **E3 Crimping Molex Connectors** document and use the Crimper to attach the Molex Crimp Connectors onto the wires.



Install the Molex Hoods onto the Wires

Follow the instructions in the **E3 Crimping Molex Connectors** document and add the Molex hoods to the wires.

* Different size hoods can be used depending on the number of wires and the pattern/spacing needed to match pins on the sensors/other.