



## EC3 Connector Assembly

Thank you for purchasing E-flite EC3 connectors. The steps outlined below will help you install the appropriate EC3 connector on your batteries, electronic speed controls, charge leads and more.

### A few tools are required for EC3 connector assembly.

- 40-watt soldering iron
- Rosin-core solder (like WSD2020)
- Pliers
- Wire stripper
- 1.5mm hex driver or small flat blade screwdriver
- EC3 DEvice (male) or BATTery (female) connector set

### The Assembly Process

#### Step One:

Strip one wire lead to expose about 2-3mm of wire. **IMPORTANT NOTE: When installing Battery connectors, be especially sure to strip, solder and install one wire/connector at a time to prevent the chance of an accidental short.**

#### Step Two:

Using the soldering iron and solder, tin the exposed end of the wire. Be sure to completely tin the wire to avoid a possible cold or poor solder joint.

#### Step Three:

Lightly tin the inside of the EC3 gold “bullet” connector (try not to use too much solder in order to prevent excess solder from flowing to the outside of the bullet connector in the next step). **IMPORTANT NOTE: The female “tubes” are used for the BATTery connectors, and the male “pins” are used for charger, ESC or other DEvice connectors.**

#### Step Four:

Place the tinned wire into the tinned bullet connector while heating the joint with the soldering iron. A cleaned and tinned soldering iron tip will help provide a clean and secure solder joint. Be sure to keep excess solder from flowing onto the outside of the bullet connector. Excess solder on the outside of the bullet connector will make it difficult/impossible to install the bullet connector in the plastic connector housing. Use a sharp hobby knife (and extreme care) or a rotary tool with a grinding stone or cutting wheel to remove any excess solder from the outside of the bullet connector.

#### Step Five:

**While the bullet connector is still warm from the soldering process**, insert it into the back of the appropriate plastic connector housing. Make sure to verify the polarity before inserting the bullet connector, as marked on the outside of the plastic connector housing. Push the bullet connector into the plastic housing with a 1.5mm hex driver or small flat blade screw driver and moderate to strong pressure, with the front of the plastic connector housing firmly seated on a solid surface. You will feel a “pop” when the bullet connector is properly locked into the plastic housing.

#### Step Six:

Repeat steps 1-5 with the other wire lead. At this point assembly of your EC3 connector is complete.

We hope the detailed steps answer any questions you might have. However, we have posted a detailed assembly video online at [www.horizonhobby.com](http://www.horizonhobby.com) if you would like to see the process first-hand. We hope you enjoy the ease of use and performance of your new EC3 connectors. If you have any questions, please call Horizon’s product support team at 877-504-0233.