

## BATTERY AND ESC CONNECTOR INFORMATION



**Castle Connector**

### **Technical Specs**

Connector Size:	4.0mm
Dimensions:	Combined: 0.67" (17.1mm) x 1.0" (25.5mm) x 0.36" (9.2mm) Female: 0.67" (17.1mm) x 0.72" (18.4mm) x 0.36" (9.2mm) Male: 0.67" (17.1mm) x 0.71" (18mm) x 0.36" (9.2mm)
Weight:	6F/3H Combined: 0.35 oz. (9.9g)
Max wire gauge:	13 AWG
Max amps:	75A continuous



**Castle Connector**

### **Technical Specifications**

Connector Size:	6.5mm
Dimensions:	Combined: 0.91" (23mm) x 1.19" (30.22mm) x 0.52" (13.3mm) Female: 0.91" (23mm) x 0.89" (22.5mm) x 0.52" (13.3mm) Male: 0.91" (23mm) x 0.94" (23.9mm) x 0.52" (13.3mm)
Weight:	6M/3H Combined: 1.05 oz. (30g)
Max wire gauge:	8 AWG
Max amps:	200A continuous



## Deans

Deans connectors are good up to 60 amps continuous. There are the original Deans and lots of copies of Deans connectors (sometimes referred to as “T” connectors) out there. They should all be interchangeable.

Special attention should be paid when soldering Deans connectors because most of them are made of plastic that can distort when soldering the wire to the plug. Use another connector plugged into the one you are soldering to help keep the metal parts aligned until the parts are cooled down.



## XT60

Specifications:

- Item Name: XT60
- Body Material: Gold-plated copper
- Internal Material: Nylon/PA
- Internal Resistance: 0.8mΩ
- Max. RC/MC: 60A/100A
- Weight: 7.72g/pcs
- Pulling Force/600: 3kg
- Temperature Resistance: -20°C~120°C
- Recommend Use: 1000 times
- Recommend Cable Spec.: 12AWG
- Recommend Soldering Spec.: 480°C/4S



## XT90

### PRODUCT DESCRIPTION

- 4.5mm Male Female Gold Plated Banana Plug Drone Aircraft Model Connector
- Protected to avoid shorting and reverse polarity
- Half open ends, easier for welding.
- Suitable for 90-120A current applications.
- Metal connector size: 4.5mm



## EC3

- 3.5mm Gold Bullet Plugs
- Capable of 60 continuous Amps.
- High Current - Fits up to 10 AWG wire



## EC5

- Rated for up to **120 amps** of continuous load.
- Perfect for large 1/4 scale electrics and 700 size electric helis
- More expensive connectors on the market
- Offer good solution for very high current situations

### Assembly and soldering tips

1. Use solder paste when tinning the plug and also tinning the wire- *especially* the wire. The ends of the high strand count wire that is used on batteries and ESCs needs to be dipped into the solder paste before the application of solder to insure that the solder gets into all of the wire.
2. Remember to put the heat shrink tubing on the wire before soldering the wire to the connector.
3. Pay close attention to how to assemble the plug and wire **BEFORE** soldering.

### Current ratings for some wire sizes

12 AWG wire 100 amps  
14 AWG wire 60 amps  
16 AWG wire 50 amps  
18 AWG wire 30 amps  
20 AWG wire 20 amps