

Battery Connector XT60 (Male + Female) – Reliable Power Connector for RC, Drones & Electronics

The **XT60 Battery Connector (Male + Female pair)** is one of the most popular and widely used connectors in the RC (Radio Control) and electronics community. Designed for **high-current applications**, the XT60 provides a secure, stable, and efficient connection between batteries, ESCs (Electronic Speed Controllers), chargers, and other power-hungry devices.

Made from high-quality **nylon material** with gold-plated connectors, the XT60 is built to withstand **high temperatures, frequent usage, and continuous current flow**. Its compact design ensures easy installation while maintaining excellent electrical performance.

Whether you are flying drones, driving RC cars, building robotics projects, or working on DIY electronics, the **XT60 connector set (male + female)** guarantees reliable performance, safety, and long service life.

Key Features

‡ **Secure Connection:** Firm fit between male and female connectors prevents accidental disconnection.

⚡ **High Current Capacity:** Supports continuous current up to 60A and peak currents up to 100A.

🔥 **Heat-Resistant Nylon Material:** Withstands high operating temperatures without deformation.

💡 **Gold-Plated Contacts:** Ensures low resistance, high conductivity, and long-lasting performance.

🔧 **Easy Soldering Design:** Large contact area simplifies wire soldering for hobbyists and professionals.

⚡🔌 **Universal Compatibility:** Works with LiPo, Li-ion, NiMH, and other rechargeable battery packs.

Technical Specifications

- **Connector Type:** XT60 (Male + Female pair)
- **Material:** High-temperature nylon housing with gold-plated copper contacts
- **Current Rating:** Continuous 60A, peak up to 100A
- **Voltage Rating:** Up to 500V DC (depending on application)
- **Resistance:** $< 0.002\Omega$
- **Operating Temperature:** -20°C to $+120^{\circ}\text{C}$
- **Wire Compatibility:** Up to 12 AWG silicone wires
- **Applications:** Drones, RC cars, airplanes, helicopters, robotics, power systems, and DIY electronics

Why Choose XT60 Connectors?

The **XT60 battery connector** is the industry standard for hobby electronics and RC projects. Unlike low-quality connectors, the XT60 provides **tight and stable connections** that won't loosen under vibration – a critical factor in drones, quadcopters, and RC vehicles.







Its **heat-resistant nylon material** ensures durability, while the **gold-plated contacts** minimize energy loss, delivering efficient power transfer. The design also prevents reverse polarity, reducing the risk of short circuits and electrical failures.

If you're working with **LiPo batteries**, the XT60 is considered one of the safest and most reliable connectors available, trusted by professionals and hobbyists worldwide.



Applications

The **XT60 male + female connector set** can be used in a wide variety of projects, including:

-  **Drones & Quadcopters** – Stable connections for flight controllers, motors, and ESCs.
-  **RC Cars & Trucks** – High-current delivery for racing and off-road performance.
-  **RC Planes & Helicopters** – Reliable power for propulsion and servos.
-  **Robotics Projects** – Safe and efficient connections for power distribution.
-  **Battery Chargers & Power Supplies** – Secure interface between LiPo batteries and chargers.
-  **DIY Electronics & Makers Projects** – Ideal for any custom power system requiring high current.



Benefits for Users

- **Enhanced Safety:** Prevents loose connections that may cause overheating or fire.
- **Long Lifespan:** High-quality materials extend usability even under frequent use.
- **Low Resistance:** Maximizes energy efficiency for longer run times and stable performance.
- **Compact & Lightweight:** Fits easily in tight spaces without adding unnecessary weight.
- **Easy to Install:** Designed for smooth soldering and quick integration into projects.



Installation Tips

1. **Use Proper Soldering Tools:** Apply high-quality solder and a powerful soldering iron (60W+ recommended).
2. **Polarity Check:** Always ensure correct polarity before soldering to avoid short circuits.
3. **Heat Shrink Tubing:** Use heat shrink over soldered joints for insulation and durability.
4. **Wire Gauge:** For high-current applications, use thick silicone wires (12–14 AWG).

Conclusion

The **XT60 Battery Connector (Male + Female)** is the perfect solution for anyone looking for a **safe, durable, and efficient power connection** in RC, drone, robotics, and DIY electronics projects. With its **60A continuous current capacity, gold-plated contacts, and heat-resistant nylon housing**, it ensures reliable performance in even the most demanding conditions.

Whether you are a beginner hobbyist or an advanced developer, adding the **XT60 connectors** to your setup means **better safety, higher efficiency, and peace of mind** for all your battery-powered projects.

Upgrade your power system today with the trusted **XT60 male + female connector set**—a standard choice for makers worldwide.