



Amass XT30U

XT30 connector (1 pair)
male XT30U-M + female XT30U-F



Read this manual before first use and keep it for future reference.

User manual · EN version

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1. Product description

1.1 What it is for

The package contains one pair of **Amass XT30U** power connectors – a male (XT30U-M) and a female (XT30U-F). The connectors are soldered onto wires and are mainly used to connect a battery to a smaller multicopter or to a charger.

The contacts are gold-plated brass, the housing is polyamide (PA) rated UL94 V-0 for flammability. The housing is asymmetric with chamfered corners, so the connectors mate in one position only; the positive pole is marked + on the housing.

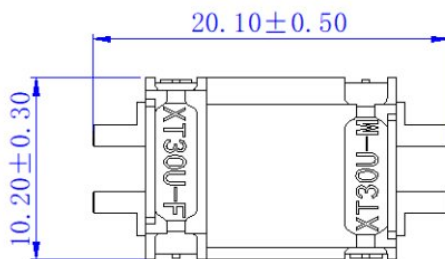


XT30U connector - left: female (XT30U-F) with the + pole marked, right: male (XT30U-M)

1.2 Specifications and package contents

Manufacturer	Amass (www.china-amass.com)
Type designation	XT30U-M (male), XT30U-F (female)
Rated current	max. 20 A (with 16 AWG wire, temperature rise < 85 K)
Rated voltage	80 V DC
Contact resistance	$\leq 1.2 \text{ m}\Omega$
Insulation resistance	$\geq 2000 \text{ M}\Omega$
Operating temperature	$-20 \text{ }^{\circ}\text{C}$ to $120 \text{ }^{\circ}\text{C}$
Service life	100 mating cycles
Protection rating	IP40
Material	housing PA (polyamide), contacts gold-plated brass
Housing flammability	UL94 V-0 (wall thickness 0.8 mm)
Salt spray resistance	48 h
Mated pair dimensions	length $20.1 \pm 0.5 \text{ mm}$, height $10.2 \pm 0.3 \text{ mm}$
Package contents	1× XT30U-M connector (male) 1× XT30U-F connector (female)

Wires, heat-shrink tubing and solder are **not** included. Product designation: **Amass XT30U-M / XT30U-F** (marked on the housing).



Dimensions of the mated pair XT30U-F + XT30U-M (mm), from the manufacturer's drawing

2. Use

2.1 What you will need

- a soldering iron with sufficient power and a clean tip,
- solder with flux,
- wires of a suitable cross-section – the manufacturer specifies the 20 A rated current for 16 AWG wire,
- heat-shrink tubing for both wires,
- a multimeter to check polarity and short circuits.

2.2 Soldering the connector step by step

- ① Slide a piece of heat-shrink tubing onto both wires – this is not possible after soldering.
 - ② Strip the wire ends and tin them. Tin the solder cups of the connector as well.
 - ③ Solder the positive wire (usually red) to the contact marked + and the negative wire (usually black) to the other contact. Solder quickly so that the housing does not overheat.
 - ④ Let the joint cool down, slide the tubing over the soldered contacts and shrink it.
 - ⑤ Use a multimeter to check the correct polarity and that there is no short circuit between the poles. Only then connect the battery.
- ※ While soldering, you can plug the connector into its counterpart – this keeps the contacts aligned even when the plastic heats up. Do not connect either part to a battery while doing so.

2.3 Connecting and disconnecting

- Mate the connectors in the correct position only and push them in all the way.
- When disconnecting, hold the connector housing; never pull on the wires.
- Do not exceed the rated current and voltage stated in chapter 1.2.
- The service life of the connector is 100 mating cycles. Replace a loose, deformed or blackened connector.

2.4 Safety and care

- The soldering iron tip and a freshly soldered joint are very hot. Solder on a non-flammable surface in a well-ventilated area.
- When replacing the connector on a battery, cut and solder only one wire at a time to avoid a short circuit. Exposed contacts must never touch each other.
- The connector is rated IP40 – protect it from water and moisture. Do not use a damaged connector.
- The product is intended for persons aged 14 and over.

3. Information for the EU and Czech Market

3.1 Importer and responsible person in the EU

The product is placed on the European Union market by the importer stated below, who is at the same time the responsible person within the meaning of Article 16 of Regulation (EU) 2023/988 of the European Parliament and of the Council on general product safety (GPSR).

Importer / responsible person in the EU	Rotorama, s.r.o.
Company ID (IČO)	051 57 692
VAT ID (DIČ)	CZ05157692
Registered office	Okrajová 1351, 674 01 Třebíč, Czech Republic
E-mail	info@rotorاما.cz
Phone	+420 252 252 098
Website	www.rotorاما.cz

3.2 Disposal

- The connector on its own contains no electronics or batteries and is not subject to take-back of electrical equipment. Dispose of it in accordance with your local rules (metal and plastic).
- If the connector is soldered onto the cable of a battery or other electrical equipment, it is disposed of together with it in accordance with the rules for that equipment.

4. Warranty and rights arising from defective performance

The rights and obligations of the contracting parties are governed by Czech law, in particular by Act No. 89/2012 Coll., the Civil Code, and Act No. 634/1992 Coll., on consumer protection.

- The seller is liable to the buyer for the product being free of defects on receipt. If the buyer is a consumer, a defect may be notified **within two years of receipt** of the product (Section 2165 of the Civil Code).
- If a defect appears within **one year** of receipt, the product is deemed to have been defective already at the time of receipt (Section 2161(5) of the Civil Code).
- When purchasing online, a consumer has the right to **withdraw from the contract within 14 days** of receiving the goods without giving a reason (Section 1829 of the Civil Code).
- Claims should be made with the retailer from whom you purchased the product. The importer's contact details are given in Chapter 3.1.
- The competent body for out-of-court settlement of consumer disputes is the **Czech Trade Inspection Authority**, Štěpánská 796/44, 110 00 Prague 1, www.coi.cz.