Amass XT60H

XT60 connector – 1 pair (male + female)
User manual



Read this manual before soldering and first use.

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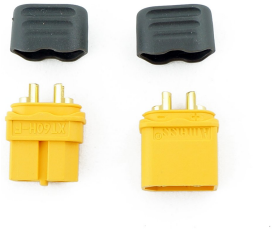
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1. Product description

1.1 What it is for

The XT60 is a two-pole power connector used in RC modelling and FPV mainly to connect a battery to a drone or to a charger. The package contains one pair – a male and a female connector – and two covers.

The connector is attached to the wires by soldering. On the rear side the contacts have semicircular solder cups into which the wire is easily soldered. The plastic cover slides onto the rear of the connector and covers the soldered joints.



Left: female connector XT60H-F, right: male connector XT60H-M, top: covers

1.2 Specifications and package contents

Manufacturer	Amass (Changzhou Amass Electronics Co., Ltd.)
Product designation	XT60H-M (male), XT60H-F (female), XT60H cover
Number of poles	2
Rated current	35 A (12 AWG wire, temperature rise ≤ 85 K)
Rated voltage	80 V DC
Contact resistance	≤ 1.2 mΩ
Operating temperature	−20 °C to 120 °C
Housing material	polyamide (PA), yellow; flammability UL94 V-0
Contacts	copper alloy, gold-plated
Connection method	soldering
Package contents	1× male connector XT60H-M 1× female connector XT60H-F 2× cover
Not included	wires, heat-shrink tubing, solder

Electrical and material data according to the Amass specification.

2. Use

2.1 What you will need

- a sufficiently powerful soldering iron with a wider tip, solder and flux if needed,
- silicone wires of a suitable cross-section (the manufacturer's rated current applies to 12 AWG wire),
- wire strippers or a knife for stripping insulation,
- a holder or "third hand", or a second XT60 connector – plugging it into the mating part keeps the contacts aligned during soldering.

2.2 Soldering the connector step by step

① **Slide the cover onto the wires** – before soldering, with the open side facing the connector. It cannot be fitted once the wires are soldered.

② **Strip and tin the wires.** Strip only as much as is needed for the wire to fill the solder cup. Tin both the wire ends and the semicircular solder cups of the connector.

③ **Solder the wires with the correct polarity.** The positive wire (usually red) must be on the same contact as on the mating connector – the shape of the housing ensures that the connectors fit together only one way. Solder quickly so that the plastic housing does not soften.

④ **Check the joints and slide on the cover.** Once cooled, check that the wires hold firmly, the joints are shiny and there is no solder bridge between the contacts. Then slide the cover onto the rear of the connector.



Female connector with the cover fitted

※ Before connecting a battery for the first time, check the polarity, ideally with a multimeter. Reversed polarity can damage the connected device.

2.3 Connecting and disconnecting the battery

- In practice, the **female** connector, whose contacts are recessed in the housing, is used on the source side (battery) and the **male** connector on the load side (drone, charging lead). This reduces the risk of short-circuiting exposed battery contacts.

- Connect and disconnect the connectors by holding the housing, never by pulling the wires.
- Do not connect or disconnect the connector under load – switch off the load before disconnecting the battery.
- The connector is a connecting element, not a load-bearing part. Do not use it to secure the battery or as part of a structure.

2.4 Safety and care

- Do not exceed the rated current or voltage of the connector.
- When soldering, work on a non-flammable surface in a well-ventilated area; the soldering tip and freshly soldered contacts are hot.
- Do not continue to use a connector with a damaged, deformed or burnt housing or loose contacts – replace it.
- Keep the connector clean and dry, away from humid and hot environments.
- When used with a drone, observe the regulations for operating unmanned aircraft; the law of the country in which the product is operated is decisive.
- 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@rotorama.cz
Phone	+420 252 252 098
Website	www.rotorama.cz

Product identification: Amass XT60H-M (male) and XT60H-F (female); the connector housings carry the moulded manufacturer marking AMASS or the type designation (e.g. XT60H-F).

3.2 Disposal

The product contains no electronics or batteries and is not subject to take-back of electrical equipment. It consists of a plastic housing and metal contacts. Dispose of an unwanted connector via separated waste collection or a recycling centre in accordance with local rules.

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.