XT60H-F

Amass XT60 female connector with cover
User manual



Read this manual before soldering and first use. The connector is intended for DC power circuits; incorrect wiring or a short-circuited battery can cause a fire.

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1. Product description

1.1 What it is for

Amass XT60H-F is the female part of the two-pole **XT60** power connector with a cover for the solder terminals. XT60 connectors are a widespread standard in FPV and RC modelling for connecting a battery to a drone, aircraft or other device. The female connector is used on the live side – i.e. on the battery or on the power source. Its contacts are recessed in the housing, so they cannot easily be touched or short-circuited during handling.

The connector is soldered onto the wires and mates with the male XT60 connector. After soldering, the grey cover is slid over the solder terminals; it insulates them and protects the joints against mechanical damage.



XT60H-F connector with fitted cover

1.2 Technical data and package contents

Manufacturer	Amass (Changzhou Amass Electronics), www.china-amass.com
Product designation	XT60H-F (marked “XT60H-F” on the housing), yellow version
Type	two-pole power connector, female, solder terminals, 180° outlet, terminal cover
Rated current	max. 35 A (12 AWG wire, temperature rise < 85 °C)
Max. voltage	500 V DC
Mechanical life	100 mating cycles
Degree of protection	IP40
Operating temperature	−20 °C to 120 °C
Material flammability	UL94 V-0
Dimensions with cover	24.95 × 16.40 × 9.20 mm (according to the manufacturer's drawing)
Package contents	1× XT60H-F connector (female), 1× cover
Not included	mating connector (male XT60), wires, solder, heat-shrink tubing, tools

2. Use

2.1 Parts description



Parts of the XT60H-F connector

① **Contact sockets** – the pins of the male XT60 connector are inserted here.

② **Housing** marked XT60H-F. The housing shape with chamfered edges prevents mating with the counterpart in reverse polarity.

③ **Solder terminals** – the wires are soldered onto these.

④ **Cover** – slid over the terminals after soldering.

2.2 Safety instructions

- Always solder and install the connector **with no voltage applied** – disconnect the battery; if you solder the connector directly onto the battery leads, always work on one wire at a time and keep the other one insulated.
- The ends of the battery leads must never touch each other or any metal object. A short-circuited Li-Po battery can cause a fire or burns.
- Solder on a non-flammable surface in a well-ventilated area. The soldering iron tip and freshly soldered terminals are hot.
- Use the same polarity on all your devices: **red wire = plus (+)**, black wire = minus (−). Always check the polarity after soldering.
- Do not exceed the rated current of 35 A. The manufacturer specifies it for 12 AWG wire; with a thinner wire the current-carrying capacity of the joint is lower.
- Do not continue to use a damaged, deformed or blackened connector; replace it.

2.3 Soldering the wires

① Strip the wire ends to the length of the solder terminal and tin them.

② **Slide the cover onto the wires before soldering** – it cannot be fitted onto the wires afterwards.

③ Tin the solder terminals of the connector.

④ Solder the wires: the positive (red) and negative (black) wire onto the terminals according to the polarity of the counterpart the connector will be mated with. Solder quickly with a sufficiently powerful iron so that the heat does not deform the plastic housing.

⑤ Let the joint cool down without moving it. A good joint is shiny and the solder flows around both the wire and the terminal.

⑥ Check that there is no solder bridge or stray strands between the terminals.

⑦ Slide the cover over the soldered terminals all the way to the connector housing.

⑧ Before connecting a battery for the first time, check the polarity and that there is no short circuit, ideally with a multimeter.

If you are not sure about the polarity, do not connect the connector to a battery or device. Reverse polarity can permanently damage the device.

2.4 Connecting and disconnecting

- Mate the connectors in line, without levering, all the way in. Slight resistance when inserting is normal.
- When disconnecting, always hold **the connector housings**; never pull on the wires.
- Disconnect the connector only after switching off, not under load.
- The manufacturer specifies a mechanical life of 100 mating cycles. If the connection loses its contact pressure or the contacts are visibly worn, replace the connector.

2.5 Inspection and maintenance

- Before each use, check that the housing is not cracked or melted and that the wires at the cover are not kinked or broken.
- A connector that gets noticeably hot during operation indicates a poor joint, worn contacts or an undersized wire – find the cause and replace the connector if necessary.
- Protect the connector from moisture, sand and dirt. Degree of protection IP40 does not mean protection against water.
- Remove dirt from the contact sockets with dry air or a soft brush; do not use metal tools.

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.com

3.2 Disposal



- The crossed-out wheeled bin symbol on the product, its packaging or in the documentation means that at the end of its service life the product **must not be disposed of together with mixed municipal waste**.
- Hand it over at a take-back point for electrical equipment – at a collection yard, at a take-back point of a collective system, or at the retailer when purchasing a new equivalent product. Take-back is free of charge for the end user.
- The obligations under Act No. 542/2020 Coll., on end-of-life products, are fulfilled by the importer through a collective take-back system.
- Proper disposal helps prevent negative impacts on the environment and human health and contributes to the reuse of secondary raw materials.

Through its contractual partner **ASEKOL a.s.**, the company ensures the take-back of waste electrical equipment from households and the separate collection of waste electrical equipment, batteries and accumulators in accordance with the applicable legislation. The customer is entitled to hand over old electrical equipment or a battery or accumulator at any collection point of the above contractual partner. The addresses of these take-back points are listed at www.asekol.cz, www.ecobat.cz and also https://visoh2.mzp.cz/RegistrMistZO/RegistrMistZOPublic/MapaMistZpetOdberu.

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.