ROTORAMA

XT60W-F

Amass XT60W – female connector
Waterproof power connector – user manual



Read this manual and follow the safety instructions before soldering and using the connector.

www.rotorama.com

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1. Product description

1.1 Intended use

Amass XT60W-F is the female part of the XT60 power connector in the waterproof “W” version. It is used for a detachable connection of power wires – typically between a battery and an FPV drone, a model or another load. The female connector is used on the voltage source side, i.e. on the battery or on the power supply, so that the live contacts are recessed in the housing.

The “W” version has a red rubber sealing strip on the housing which insulates and seals the joint when connected. The manufacturer specifies **IP67** protection for the connector. The connector is attached to the wires by **soldering**; the mating part is the male connector of the XT60W series (XT60W-M), which is not included in the package.

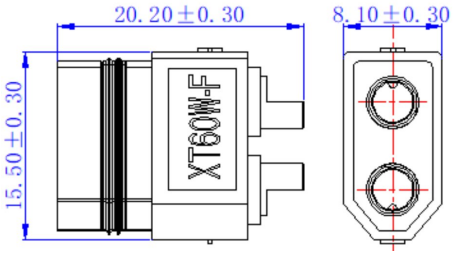


XT60W-F female connector (top right, with the red seal) and the mating XT60W-M male connector (bottom left, not included). Photo: Amass

1.2 Technical data and package contents

Manufacturer	Amass
Product designation	XT60W-F (type designation XT60W-F.G.B, black)
Rated current	35 A (12 AWG wire, temperature rise ≤ 85 K)
Rated voltage	80 V DC
Insulation resistance	≥ 2000 MΩ
Contact resistance	≤ 1.2 mΩ
Service life	100 mating cycles
Protection rating	IP67
Operating temperature	−20 °C to 120 °C
Flammability rating	UL94 V-0
Housing	polyamide (PA), black
Contacts	brass, gold-plated
Wire connection	soldering
Dimensions	20.2 × 15.5 × 8.1 mm (±0.3 mm)
Length of mated pair	33.0 ± 0.5 mm
Package contents	1× XT60W-F connector (female)
Not included	XT60W-M male connector, wires, heat-shrink tubing, solder

The product is identified by the marking **XT60W-F** and the **Amass** logo on the housing.



Dimensions of the XT60W-F female connector in mm (manufacturer's drawing)

2. Use

2.1 Soldering the wires

The manufacturer specifies a rated current of 35 A for a **12 AWG** wire. Use a wire suitable for the current that will flow through the joint and solder suitable for electronics.

① Before soldering, slide a piece of heat-shrink tubing onto each wire and push it far enough away from the soldering point.

② Strip the wire ends to the length of the solder cup and tin them.

③ Secure the connector (e.g. in a holder or plugged into the mating part, so that the contacts do not shift when the housing heats up) and fill the solder cups with solder.

④ Insert the tinned wire into the molten solder in the cup and let the joint cool down undisturbed. Solder quickly – prolonged heating can damage the plastic housing.

⑤ Observe the polarity: the positive wire (usually red) to the contact marked “+”, the negative wire (usually black) to the other contact. The mating part must have the same polarity.

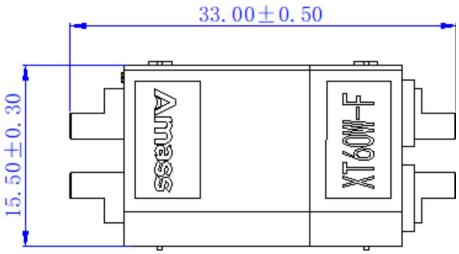
⑥ Pull the heat-shrink tubing over both solder cups and shrink it. No bare metal may remain exposed.

⑦ Before connecting a battery for the first time, check that there is no short circuit between the contacts (visually and with a multimeter).

※ Solder the wires coming from the battery or power source to the female connector, and the wires of the load to the male connector (XT60W-M).

2.2 Connecting and disconnecting

- Push the connectors straight together all the way. The shape of the housing prevents connection with reversed polarity – do not force the connectors together.
- The sealing strip works only when the connectors are fully mated. Before connecting, check that it is clean and undamaged.
- When disconnecting, pull on the connector housings, never on the wires.
- The manufacturer advises against connecting and disconnecting the connector under voltage. Always switch off the load first, so that no current flows through the joint when disconnecting.



Length of the mated XT60W-F and mating connector in mm (manufacturer's drawing)

3. Safety instructions

- Do not exceed the rated current of **35 A** and the rated voltage of **80 V DC**. There is a risk of overheating, damage to the connector and fire.
- The connector is part of an electrical circuit and **is not a load-bearing component**. Do not use it as part of a structure and do not subject it to mechanical load.
- Use it only in an environment according to the technical data (Chapter 1.2). Outside this range, do not use it in places with high temperature and humidity.
- The connector is a precision component that can easily be deformed or bent. Unpack and install it carefully.
- A short circuit on a Li-Po battery can cause a fire. When soldering to battery wires, never leave both wires stripped at the same time and never connect them together.
- If the connector is blackened, melted, has loose contacts or heats up excessively during operation, take it out of service immediately and replace it.

4. Storage and maintenance

- Store in a clean and dry environment with no acidic, alkaline or other corrosive gases nearby.
- For the unopened package, the manufacturer specifies a storage temperature of −20 °C to 25 °C, humidity ≤ 80 % and a storage period of 1 year.
- During transport, protect the product from impacts, strong vibration, rain, snow and immersion in water.
- Keep the contacts clean. Before connecting, check that there is no dirt, sand or water in the connector.
- The manufacturer specifies a service life of 100 mating cycles. Replace a worn connector that has become loose.

5. Information for the EU and Czech Market

The information in Chapters 5 and 6 describes the situation under the law of the European Union and the Czech Republic. If you use the product in another country, the law of the country in which the product is used is decisive.

5.1 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

5.2 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.

6. 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 5.1.
- 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.