XT60W Male

Amass XT60W-M
User manual



Read chapter 2 before soldering and connecting for the first time.

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1. Product description

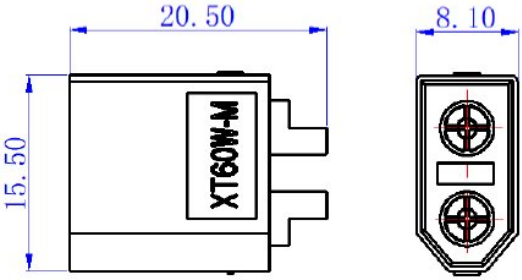
1.1 Intended use

The Amass XT60W-M is the male part of a two-pin XT60-series power connector in black. It provides a detachable connection of power wires – typically between a battery and a model. The male connector is used on the device side, i.e. where the battery is plugged in (drone, aircraft, charging lead).

For the mated XT60W-F/M connector the manufacturer states protection rating **IP65**, which makes it suitable also for models operated in dusty or humid environments. The mating part is the **Amass XT60W-F** female connector. The contacts are gold-plated and the wires are attached by soldering.



Amass XT60W-M connector



Dimensional drawing of the XT60W-M (dimensions in mm, according to the manufacturer)

1.2 Technical data and package contents

Parameter	Value
Product designation	Amass XT60W-M (black, gold-plated contacts: XT60W-M.G.B)
Manufacturer	Changzhou Amass Electronics Co., Ltd., China
Type	male, 2 pins
Rated current	35 A max. (12 AWG wire, temperature rise ≤ 85 K)
Rated voltage	80 V DC
Contact resistance	≤ 1.2 mΩ
Insulation resistance	≥ 2000 MΩ
Protection rating	IP65 (mated XT60W-F/M connector)
Operating temperature	−20 °C to 120 °C
Service life	100 mating cycles
Flammability rating	UL94 V-0
Material	housing PA (black), contacts brass, gold-plated
Wire connection	soldering
Dimensions	20.5 × 15.5 × 8.1 mm
Package contents	1× XT60W-M connector
Not included	XT60W-F mating part (female), wires, heat-shrink tubing

2. Use

2.1 Safety instructions

- Only solder wires that are not connected to a battery or any other voltage source.
- Do not exceed the rated current of 35 A or the rated voltage of 80 V DC.
- Li-Po batteries have a very low internal resistance. A short circuit or reversed polarity can destroy electronics instantly, cause burns or start a fire.
- Before connecting a battery for the first time, always check the polarity and make sure there is no short circuit between the contacts.
- Do not use the connector if the housing is cracked or deformed by heat, or if the contacts are loose or blackened.

2.2 Soldering the wires

① Choose wires suitable for the current load. The manufacturer specifies the 35 A rated current for 12 AWG wires.

② Slide heat-shrink tubing onto the wires beforehand so that no contacts remain exposed after soldering.

③ Strip and tin the wire ends. Tin the solder cups of the connector as well.

④ Hold the connector in a holder or plug it into an XT60W-F mating part to limit heat deformation of the housing. Solder quickly with a sufficiently powerful iron.

⑤ Solder the wires with the correct polarity: the positive wire (usually red) to the contact that corresponds to the positive pole of the battery when mated. Derive the polarity from the mating connector on the battery.

⑥ Once cooled, shrink the heat-shrink tubing over the soldered joints up to the housing.

⑦ Use a multimeter to verify that there is no short circuit between the contacts and that the polarity matches the mating part.

2.3 Connecting, disconnecting and maintenance

- Insert the connector into the mating part straight and fully. The housing fits in one direction only – do not force it.
- When disconnecting, pull on the connector housing, never on the wires.
- The IP65 rating applies only to the fully mated XT60W-F/M connector. Protect the unmated connector from water and dirt.
- Keep the contacts clean and dry (dry brush or compressed air).
- The manufacturer states a service life of 100 mating cycles. If the connector sits loosely in the mating part or heats up under load, replace it.

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.

※ The law of the country in which the product is used is decisive for its use. If you use it outside the Czech Republic, follow the regulations of that country.