ROTORAMA

Amass MR30

Three-pin connector — 1 pair (male + female)
User manual



Read the entire manual before first use. Solder and connect the connector only on wires that are not live.

Rotorama, s.r.o. · www.rotorama.com

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1. Product description

1.1 What it is for

Amass MR30 is a three-pin solder connector from the same family as the well-known XT30 and XT60 connectors. It is used wherever three wires need a detachable connection — typically **the phase wires of a motor to the electronic speed controller (ESC)** in RC models and FPV drones. The motor can then be replaced without soldering directly on the ESC board.

The package contains one pair: a **male MR30-M** with pin contacts and a **female MR30-FB** with sockets. The manufacturer recommends the male on the motor side and the female on the ESC side. After soldering, a grey cover slides onto the back of each part to cover the solder joints.



Male MR30-M (left), female MR30-FB (right) and two covers

1.2 Technical data and package contents

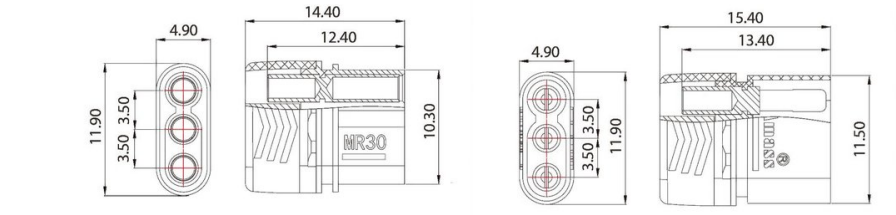
The data are stated by the manufacturer Changzhou Amass Electronics Co., Ltd. in its connector catalogue for the MR30-M and MR30-FB parts.

Manufacturer	Changzhou Amass Electronics Co., Ltd. (Amass)
Product designation	MR30-M (male), MR30-FB (female)
Number of contacts	3
Contact pitch	3.5 mm
Rated current	15 A
Momentary current	30 A
Rated voltage	DC 500 V
Contact resistance	0.70 mΩ
Contacts	brass, gold-plated
Housing	polyamide (PA), yellow, flammability UL94 V-0
Recommended wire	16 AWG
Recommended mating cycles	1000
Operating temperature	−20 °C to 120 °C

▶ Package contents

- 1× male MR30-M
- 1× female MR30-FB
- 2× grey solder-joint cover

Not included: wires, solder, flux, heat-shrink tubing and tools.



Dimensions in mm according to the manufacturer's drawing: female MR30-FB (left) and male MR30-M (right)

2. Use

2.1 Soldering the wires

The wires are soldered into the solder cups at the back of the contacts. Always work on wires that are **not live** — disconnect the model's battery.

① **Put the cover on the wires first.** Slide the grey cover onto the wires before soldering — once soldered, you can no longer get it onto them.

② **Prepare the wires.** Strip the ends to the depth of the solder cup and tin them. The manufacturer recommends 16 AWG wire.

③ **Tin the solder cups.** It is a good idea to mate the connector with its counterpart while soldering — the contacts then stay in the correct position and the heat deforms the plastic housing less.

④ **Solder the wires.** Solder quickly with a sufficiently powerful soldering iron so that the housing does not heat up unnecessarily. The joint must be shiny and the solder must wrap both the wire and the cup.

⑤ **Check the joints.** No solder or stray strands may remain between neighbouring contacts — risk of a short circuit.

⑥ **Slide the cover** over the solder cups up to the connector housing once the joint has cooled.

※ On a motor, the order of the phase wires determines the direction of rotation. If the motor spins the wrong way after connection, swap any two phase wires or change the direction of rotation in the ESC settings.

2.2 Connecting and disconnecting

- Connect the male and female **only when not live** and push them together straight all the way in.
- When disconnecting, hold and pull the plastic housings, never the wires.
- The mated connector must not be strained by pulling or bending the wires — secure the wires near the connector (e.g. with a cable tie).
- The manufacturer states 1000 recommended mating cycles. If the connection loses its grip or the contacts are damaged, replace the connector.

3. Safety and maintenance

- Do not exceed the rated current of **15 A**; a current of **30 A** is permissible only momentarily. An overloaded connector heats up and may be damaged.
- The operating temperature of the connector is −20 °C to 120 °C. Protect it from moisture, water and dirt.
- Regularly check the connector for a cracked or deformed housing, loose wires or blackened contacts. Replace a damaged connector immediately.
- When working with batteries, take care to avoid a short circuit — a short-circuited Li-Po battery can cause a fire.
- The product contains small parts. Keep it out of the reach of children.

The connector is a passive component that requires no maintenance. Do not use it outside the ratings given in Chapter 1.2.

4. Information for the EU and Czech Market

4.1 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

4.2 Disposal of electrical equipment



- 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.

5. 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 4.1.
- 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.