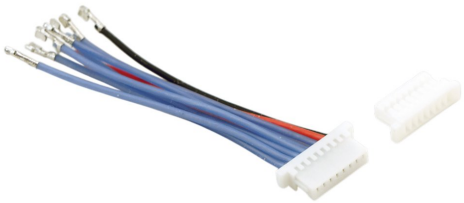
FC-ESC Cable

Skystars replacement FC-ESC connection cable
User manual



Before connecting, check the order of the wires in the connector against the pinout of both the flight controller and the ESC. Swapped wires can permanently damage the boards.

www.rotorama.com

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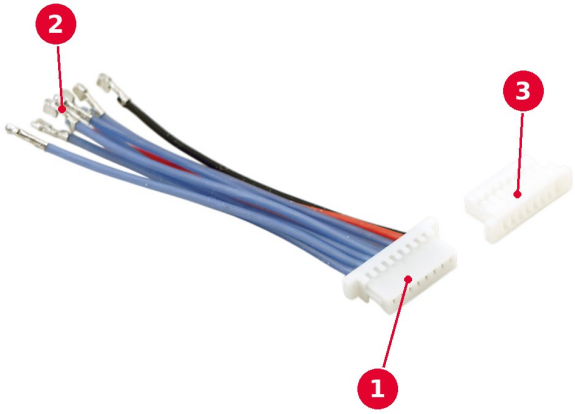
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1. Product description

1.1 What it is for

The Skystars replacement connection cable is used to connect the **flight controller (FC)** to the **electronic speed controller (ESC)** in an FPV drone. Use it when the original cable between the boards is damaged – for example pulled out of the connector, pinched between the boards or torn in a crash.

The cable carries signals and power between the boards, so the **order of the wires in the connector** is critical when connecting it. As shown in the product photo, one end of the cable is fitted with a connector ①, the other end has wires with crimped contacts ②, and a separate connector housing ③ is included, into which the contacts are inserted in the correct order.



① connector fitted with wires · ② wires with crimped contacts · ③ separate connector housing

1.2 Specifications and package contents

Product designation	Skystars replacement FC-ESC connection cable
Manufacturer	Skystars
Purpose	connecting the flight controller (FC) and the ESC
Cable length	33 mm
Package contents	1× replacement cable
Not included	flight controller, ESC, tools

※ The manufacturer does not state the number of pins, the connector pitch or the wiring. Before use, check that the connector matches the connectors on your boards (Chapter 2.2).

2. Use

2.1 Safety and preparation

- Before handling the cable in any way, **disconnect the battery** and the USB cable.
- Work in a clean, non-conductive and well-lit place; the small contacts are easy to bend or lose.
- Remove the propellers – after replacing the cable you will test the motors, and incorrect wiring may cause a motor to spin up unexpectedly.
- The product contains small parts. Keep it out of the reach of children.

2.2 Checking the wire order

Flight controllers and ESCs from different manufacturers, and even different series from the same manufacturer, may have the pins in the connector in a different order. Therefore **do not connect the cable blindly**.

① Find the pin description of the ESC connector on both the flight controller and the ESC – it is usually printed on the board next to the connector or given in the board manufacturer's documentation.

② Compare the order of the signals on both sides (typically battery power, ground, motor signals, telemetry and current sensor). The same signal must be connected by the same wire at both ends of the cable.

③ If the order on both boards is the same, insert the contacts into the housing in the same order as on the fitted end. If it differs, insert them so that the signals match.

④ Do not rely on wire colours. What matters is the pin order, not the colour of the insulation.

※ Swapping the battery-voltage wire with a signal or ground wire can permanently destroy both the flight controller and the ESC. Such damage is not a product defect.

2.3 Inserting the contacts into the connector housing

- Insert the contact into the corresponding cavity of the housing so that the locking tab of the contact faces the window in the housing.
- Push the contact by the wire close to the contact, evenly and without force, until it clicks into place.
- After inserting, pull gently on the wire – a correctly latched contact will not come out.
- If a contact will not go in, do not force it; check its orientation and whether it is bent.
- Do not use a bent or broken contact – it may cause a short circuit.

2.4 Connecting and routing the cable

- Push the connector into its mating socket on the board straight and all the way in. The correct orientation is given by the shape of the housing – never insert the connector the wrong way round.
- When disconnecting, always hold the connector housing, never pull on the wires.
- Route the cable so that it is not under tension, not pinched between the boards or under screws, and does not reach into the propeller path.
- The wires must not rest against sharp edges of the frame or hot components of the ESC.

2.5 Checks after replacing the cable

① If you have a multimeter, check before connecting the battery for the first time that there is no short circuit between positive power and ground on the connector.

② Make the first battery connection through a short-circuit protector (smoke stopper), if you have one.

③ With the propellers removed, connect the drone to a computer and in the configurator (e.g. Betaflight), on the *Motors* tab, check that the correct motors spin in the correct order and direction.

④ Check that the flight controller shows the correct battery voltage and – if the ESC provides them – telemetry and current.

2.6 Troubleshooting

Problem	Possible cause and solution
One motor does not spin	a contact is not latched or is in the wrong cavity – check the order as described in Chapter 2.2
Motors spin in a different order	signal wires swapped – correct the contact order or remap the motors in the configurator
No voltage or current reading	the voltage or current-sensor wire is not connected correctly – check the order
The board does not power up after connecting the battery	disconnect the battery immediately and check the power and ground wiring

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.