SH1.0 Set

of connectors and cables
User manual



The set contains small parts and sharp tweezers. Keep it out of the reach of children.

www.rotorama.com

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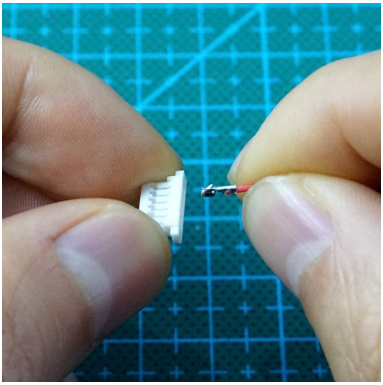
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1. Product description

1.1 What it is for

The set is used to make your own interconnect cables with **SH1.0** connectors (1.0 mm contact pitch). These connectors are commonly used in FPV equipment on flight controllers (FC), electronic speed controllers (ESC) and other components. With the set you can always make a cable with the number of pins and the wire order your wiring requires.

The cables are **fitted with pre-crimped contacts on both ends**, so you do not need a crimping tool – simply insert the contacts into the connector housing. By cutting a cable you get two cables with a connector on one end and a free end that you solder to a solder pad or another wire.



Inserting a pre-crimped contact into an SH1.0 connector housing

1.2 Specifications and package contents

Product designation	SH1.0 connector and cable set
Connector type	SH1.0 (1.0 mm pitch)
Connector housings	2 to 10 pins (2P–10P)
Cables	pre-crimped on both ends, length 15 cm, 6 colours

▶ Package contents

Item	Qty
SH1.0 connector housing, 2 pins (2P)	20 pcs
SH1.0 connector housing, 3 pins (3P)	20 pcs
SH1.0 connector housing, 4 pins (4P)	20 pcs
SH1.0 connector housing, 5 pins (5P)	20 pcs
SH1.0 connector housing, 6 pins (6P)	20 pcs
SH1.0 connector housing, 7 pins (7P)	10 pcs
SH1.0 connector housing, 8 pins (8P)	10 pcs
SH1.0 connector housing, 9 pins (9P)	10 pcs
SH1.0 connector housing, 10 pins (10P)	10 pcs
15 cm cable with contacts on both ends (6 colours, 30 pcs each)	180 pcs
Heat-shrink tubing	100 pcs
Tweezers	1 pc

※ The composition of the set may differ between production batches (e.g. the range of housing pin counts or the number of cables). The actual package contents are decisive.

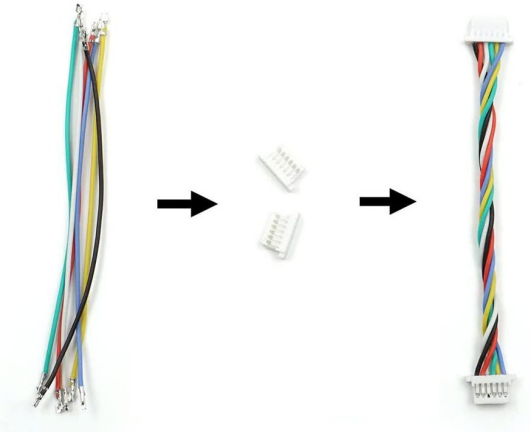
Not included: crimping tool, soldering iron, heat gun, multimeter or ready-made cables – you assemble the cables yourself from the contacts and housings.

2. Use

2.1 Before you start

- Find out the **connector wiring (pinout)** of both devices from their documentation. The wire order often differs between devices – for example, the transmit wire TX of one device connects to the receive wire RX of the other.
- Count the pins of the connector on the device and choose a housing with the **same number of pins**.
- Choose wire colours so that the wiring is easy to check, e.g. red for power and black for ground (GND).
- Work in good light on a clean surface – the contacts and housings are very small.

2.2 Assembling a cable



Cables and housings make a finished interconnect cable

① Hold the wire with tweezers or your fingers just behind the contact.

② Turn the contact so that its locking tab faces the windows in the side of the housing.

③ Push the contact into the appropriate position of the housing all the way until it clicks into place.

④ Pull the wire gently – a correctly inserted contact will not slip out of the housing.

⑤ Repeat for all positions. On the other end of the cable, fit the housing according to the pinout of the mating device.

※ Never force a contact in. If it does not go further, it is probably turned the wrong way – pull it out and turn it over.

2.3 Removing a contact from the housing

If you insert a contact into the wrong position, you can remove it: carefully press the contact's locking tab in the housing window with the tip of the tweezers and at the same time pull the contact out by the wire. Before re-inserting it, check that the tab is still raised; if it is pressed down, the contact will not hold in the housing – carefully lift the tab or use another cable.

2.4 Cable with a free end for soldering

① Cut the cable to the required length. One cable gives you two wires with a contact on one end.

② Strip the free end of the wire briefly and tin it.

③ Solder the wire to the solder pad of the device according to its pinout.

④ If you are joining the wire to another wire, slide heat-shrink tubing onto one of them before soldering. Once the joint has cooled down, move the tubing over the joint and shrink it with hot air.

2.5 Check before connecting

- Compare the finished cable with the pinout of both devices, ideally with a multimeter in continuity mode.
- Connect and disconnect the cable only with the **power disconnected** – on a drone always with the battery unplugged.
- After switching on for the first time, check that no part is getting hot or smells. If it does, disconnect the power immediately and check the wiring.
- SH1.0 cables and connectors are intended for **signal and low-current wires** (e.g. UART, peripheral power). Do not use them to carry current from the flight battery to the electronic speed controllers (ESC) and motors.

3. Safety and storage

- The set contains **small parts** that can be swallowed. Keep it out of the reach of children and animals.
- The tweezers have **sharp tips** – work carefully and put them back in the package after use.
- There is a risk of burns when soldering and shrinking tubing. Work on a non-flammable surface in a well-ventilated area and never leave hot tools unattended.
- Never connect or modify cables while they are live.
- Do not use a damaged cable with cut insulation or a loose contact.
- Store the set in a dry place, in its original package, away from direct sunlight and heat sources.

4. Information for the EU and Czech Market

The information in this chapter describes the situation in the Czech Republic. If you use the product in another country, follow the regulations of the country in which the product is used and disposed of.

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



- 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.