# Servo Connector Set

with cable
User manual



**Crimping pliers, which are not included, are required to assemble the connectors.**

*Rotorama, s.r.o. · www.rotorama.com*

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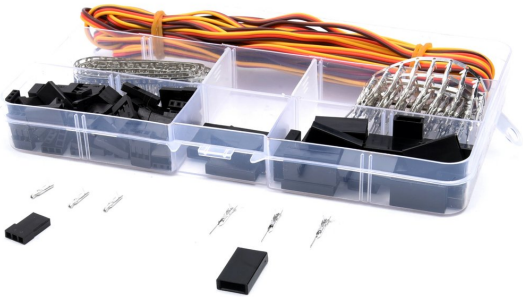
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# 1. Product description

## 1.1 Intended use

The servo connector set with cable is used to make and repair interconnecting cables with three-pin servo connectors, which are used in RC models to connect servos, receivers, speed controllers and other accessories. With the set you can make extension cables to the exact length you need, replace a damaged connector on a servo lead, or build your own connections that are not commonly available.

The set contains male and female connector housings and contacts, and a three-core cable. The contacts are attached to the wires by crimping, so crimping pliers are required for use with the set.



*Servo connector set with cable*

## 1.2 Specifications and package contents

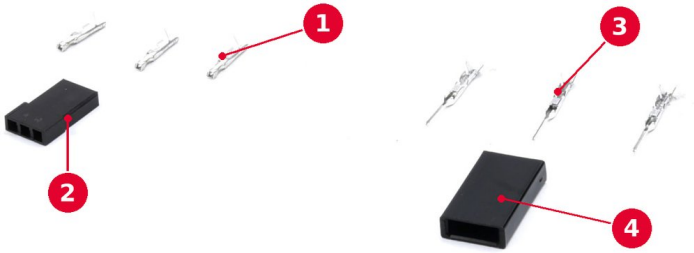
| | |
|---|---|
| Product designation | Servo connector set with cable |
| Connector type | three-pin servo connector, male and female |
| Wire connection | by crimping |
| Cable | three-core, wire colours brown – red – orange |
| Package contents | 30× servo connector, male<br>30× servo connector, female<br>5 m of cable |

**Not included:** crimping pliers, wire strippers or cable knife, heat-shrink tubing.

# 2. Use

## 2.1 Connector parts

Each connector consists of a plastic housing and three metal contacts – one per wire.




*Parts of the female (left) and male (right) connector*

① female contact (socket)

② female connector housing

③ male contact (pin)

④ male connector housing

## 2.2 What you will need

- crimping pliers designed for servo connector contacts,
- wire strippers, or a sharp knife and side cutters,
- a multimeter to check the finished cable (recommended),
- optionally heat-shrink tubing and a hot-air gun.

## 2.3 Crimping a contact

The front section of the contact is crimped onto the bare conductor, the rear section onto the insulation to hold the wire mechanically. Repeat for all three wires.

① Cut the cable to the required length and separate the wires at the end over a short length.

② Strip each wire so that the bare copper sits in the front section of the contact and the insulation in the rear section. Do not damage the strands.

③ Place the contact in the matching slot of the crimping pliers, insert the wire and squeeze the pliers fully until they release by themselves.

④ Check that the front section is firmly crimped onto the copper, the rear section grips the insulation and no stray strands stick out of the contact.

⑤ Pull the wire gently. The contact must not move or pull out – otherwise cut it off and repeat the crimping with a new contact.

## 2.4 Assembling the connector and polarity

Push the crimped contacts into the housing from the rear until their locking tab engages. Female contacts go into the female housing, male contacts into the male housing. A correctly inserted contact cannot be pulled out of the housing by pulling on the wire.

On servo connectors, the power wire (+) is usually in the middle. The wires of the cable in the set have the usual colour coding:

| Colour | Usual meaning |
|---|---|
| brown | negative (−, GND) |
| red | power (+) |
| orange | signal |

- The order of the wires must be the same at both ends of the cable – the same colours in the same positions in the housing.
- Always compare the wiring with the documentation of the device you are going to connect. Some devices use a different pin order or different wire colours.
- When plugging into the mating connector, check the orientation by the wire colours and do not use force.

## 2.5 Checking the finished cable

- Using a multimeter in continuity mode, check that each wire connects the same positions at both ends and that there is no short circuit between adjacent wires.
- First check the cable without power, only then connect the device and verify that it works.
- You can protect the points where the wire enters the housing against bending and pulling out with heat-shrink tubing.

## 2.6 Warnings

- Always connect and modify cables with the battery disconnected.
- Servo connectors are intended for connecting servos, receivers and similar devices. Do not use them to carry the main power from the battery to motors and speed controllers – power connectors are intended for that.
- Incorrect polarity or a short circuit can destroy the connected devices. Check the wiring after every modification.
- The contacts in the set are designed to be crimped once. Do not straighten a badly crimped contact; replace it with a new one.
- Keep small parts out of the reach of children.

# 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 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.

# 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.