JST-XH balance connector with cable

Variants 2S, 3S, 4S, 6S, 6S – 20 cm and 8S
User manual



Read this manual before use and keep it for future reference.

Rotorama, s.r.o. · www.rotorama.cz

Contents

1. Product description

1.1 What it is for

1.2 Technical data and package contents

2. Use

2.1 What you will need

2.2 Replacing the balance connector step by step

2.3 Choosing the right variant

2.4 Safety and care

3. Information for the EU and Czech Market

3.1 Importer and responsible person in the EU

3.2 Product conformity

3.3 Disposal of electrical equipment

4. Warranty and rights arising from defective performance

1. Product description

1.1 What it is for

A cable terminated with a JST-XH balance connector. The other end of the wires is free and is connected by soldering.

The cable is intended primarily for replacing a damaged balance connector on a battery. This manual applies to all variants of the product – they differ in the number of cells (and therefore pins) and, where applicable, in length.



Cables with JST-XH connector in different variants

1.2 Technical data and package contents

Product designation	JST-XH balance connector with cable
Connector	JST-XH
Wires	22AWG
Package contents	1× cable with JST-XH connector
Not included	solder, heat-shrink tubing, tools

Variant	Cells	Pins	Length
2S	2	3	100 mm
3S	3	4	100 mm
4S	4	5	100 mm
6S	6	7	100 mm
6S – 20 cm	6	7	200 mm
8S	8	9	100 mm

2. Use

2.1 What you will need

A soldering iron and solder, side cutters, wire strippers, heat-shrink tubing with a heat source (hot-air gun) and a charger with a balancer or a multimeter for the final check.

2.2 Replacing the balance connector step by step

The balance lead is permanently connected to the battery cells and is live. Always work on one wire at a time and make sure the stripped ends never touch.

① Disconnect the battery from the model and the charger. Ideally, work with the battery at storage charge (3.8 V/cell).

② Lay the new cable next to the old connector so that the pins are in the same order. The wire order must exactly match the original connector.

③ Slide pieces of heat-shrink tubing onto the wires of the new cable.

④ Cut one wire of the old lead, strip a short section, tin it, solder it to the corresponding wire of the new cable and insulate the joint with tubing straight away. Only then continue with the next wire.

⑤ Transfer all wires one by one in this way.

⑥ Connect the battery to a charger with a balancer (or measure the voltage between adjacent pins with a multimeter) and check that the charger detects the correct number of cells and that all cells show similar voltages.

2.3 Choosing the right variant

- A balance connector always has one more pin than the number of battery cells (e.g. 6S = 7 pins).
- Choose the variant with the same number of cells as the battery.

2.4 Safety and care

- A short circuit on the balance lead of a Li-Po battery can cause a fire. Work on a non-flammable surface and keep the battery under supervision.
- Do not repair a swollen, damaged or overheated battery.
- The soldering iron tip and a fresh joint are hot – risk of burns.
- When disconnecting, hold the connector housing; do not pull on the wires.
- The product is intended for persons aged 14 and over.

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.cz

3.2 Product conformity

CE

- The product bears the **CE** marking and complies with the requirements of the applicable European Union harmonisation legislation.
- A copy of the **EU Declaration of Conformity** is available from the importer at the address stated above or at the e-mail address info@rotorama.cz.
- **Product identification:** the product designation “JST-XH balance connector with cable” and the selected variant are given on the proof of purchase.

3.3 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.