Heat Shrink 2.4/1.2 mm

Heat shrink tubing 1 m (black + red)
User manual



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

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Contents

1. Product description

1.1 What it is for

1.2 Technical data and package contents

2. Use

2.1 Choosing the tubing

2.2 Application procedure

2.3 Safety at work

2.4 Storage

3. Information for the EU and Czech Market

3.1 Importer and responsible person in the EU

3.2 Disposal

4. Warranty and rights arising from defective performance

1. Product description

1.1 What it is for

Heat shrink tubing is a thin plastic tube that shrinks when heated and tightly wraps around a wire or joint. It is used to insulate soldered joints and stripped wire ends, to protect cables against abrasion and to reinforce the point where a wire leaves a connector or solder pad.

This small-diameter tubing is intended for thin wires such as those used in FPV drones and RC models. The package contains black and red tubing, so you can colour-code the positive (red) and negative (black) pole of the power supply.



Heat shrink tubing – red and black, before shrinking

1.2 Technical data and package contents

Product designation	Heat shrink tubing 1 m (black + red) 2.4/1.2 mm
Material manufacturer, series	CYG/KTG, CB-HFT series, size 2.4
Material	polyolefin, halogen-free, flame-retardant (VW-1), without adhesive
Shrink ratio	2:1
Inner diameter	before shrinking min. 2.4 mm after shrinking 1.2 mm (2:1); after full free recovery max. 1.0 mm
Wall thickness	0.18 ± 0.05 mm before shrinking 0.35 ± 0.05 mm after shrinking
Shrink temperature	from 90 °C
Longitudinal change	max. 5 %
Operating temperature	−55 °C to 125 °C
Dielectric strength	min. 15 kV/mm
Package contents	1 m black tubing, 1 m red tubing
Not included	heat gun, soldering iron, solder, wires, connectors

2. Use

2.1 Choosing the tubing

The inner diameter of the tubing before shrinking must be larger than the widest point of the joint you will slide it over. After shrinking, it must in turn be smaller than the narrowest point it is meant to grip – otherwise it will stay loose.

- The tubing shortens slightly when shrinking (longitudinal change max. 5 %). Cut the piece a little longer than the joint itself so that after shrinking it overlaps the wire insulation on both sides.
- The tubing has no inner adhesive layer. It insulates and mechanically protects the joint, but it is **not waterproof**.

2.2 Application procedure

① Cut a piece of tubing squarely with sharp scissors or a knife, without burrs.

② Slide the tubing onto the wire **before soldering** and move it far enough away from the soldering point so that it does not shrink prematurely from the heat of the soldering iron.

③ Solder the joint and let it cool down. Check that no sharp solder points or individual strands protrude that could pierce the tubing.

④ Slide the tubing over the joint so that it covers it completely and overlaps the wire insulation on both sides.

⑤ Heat the tubing evenly from all sides with a heat gun. Start in the middle and work towards the ends so that no air is trapped under the tubing.

⑥ As soon as the tubing grips the joint tightly, stop heating and let it cool down. Only then bend the wire. Heating longer than necessary may damage the insulation of nearby wires and components.

2.3 Safety at work

- Always **disconnect the battery** before soldering and shrinking and work on a disconnected device.
- Use a heat gun for shrinking. Do not use an open flame (lighter) – there is a risk of burns, damage to the tubing and, near Li-Po batteries, fire.
- The heat gun nozzle and freshly shrunk tubing are hot. Do not touch them until they have cooled down, and do not point the hot air stream at people or batteries.
- Work in a well-ventilated area on a non-flammable surface.
- Keep the product out of the reach of children.

2.4 Storage

Store the tubing in a dry place, away from direct sunlight and heat sources, so that it does not start shrinking before use.

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

- Heat shrink tubing is neither electrical equipment nor a battery, so the take-back scheme for electrical equipment does not apply to it.
- Dispose of remnants and offcuts with municipal waste in accordance with your local authority's instructions. Put the packaging in separated waste (plastics). Do not burn the tubing.
- If the tubing is shrunk onto a cable or device, it is disposed of together with it – hand electrical equipment over at a take-back point for electrical equipment.
- For disposal, follow the regulations of the country in which you use the product.

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.

※ The rights stated above are based on Czech law, as you purchase the product from a seller in the Czech Republic. For the use and disposal of the product, the law of the country in which you use it is decisive.