5cm SMA Extension

TrueRC – SMA male / SMA female extension cable
User manual



Never power on a video transmitter without an antenna connected – the extension cable on its own does not replace the antenna.

www.rotorama.com

Contents

1. Product description

1.1 What it is for

1.2 Specifications and package contents

2. Use

2.1 Connector compatibility

2.2 Connecting

2.3 Mounting the jack to the frame

2.4 Correct use and care

3. Information for the EU and Czech Market

3.1 Importer and responsible person in the EU

3.2 Disposal of electrical equipment

4. Warranty and rights arising from defective performance

1. Product description

1.1 What it is for

The TrueRC 5cm SMA Extension is a short coaxial extension cable with an **SMA male** plug on one end and an **SMA female** jack on the other. It is fitted between a video transmitter (VTX) or another device with an SMA antenna connector and the antenna – it lets you move the antenna away from the device, route it to a suitable place on the frame or point it in the required direction.

The cable is semi-flexible: it can be bent into the required shape and stays in that shape. This makes it particularly suitable for directional patch antennas that need to be pointed in the right direction. According to the manufacturer, the cable has a loss of only **0.18 dB at 5.8 GHz**, so its effect on range is negligible – on a 5 km flight it reduces range by only about 97 m, according to the manufacturer.



Left: SMA female jack with nut, right: SMA male plug

1.2 Specifications and package contents

Product designation	TrueRC 5cm Extension-SMA (5cm SMA Extension)
Manufacturer	TrueRC Canada, 410 Av. Murdoch, Rouyn-Noranda, QC J9X 1G8, Canada, contact@truerc.com
EAN	0608597252354
Connectors	SMA male (plug) – SMA female (jack)
Length	5 cm of coaxial cable, 7 cm in total including connectors
Loss	0.18 dB at 5.8 GHz (manufacturer's data)
Cable	semi-flexible coaxial cable
Package contents	1× extension cable
Not included	antenna, video transmitter, SMA / RP-SMA adapters, tools

2. Use

2.1 Connector compatibility

The cable has **SMA** connectors (not RP-SMA). Both types have the same thread but differ in the centre contact. Before connecting, always check that the connectors really match:

- **SMA female** (jack) – external thread, socket in the centre. An antenna with an SMA male plug is connected to this end of the cable.
- **SMA male** (plug) – coupling nut with internal thread, pin in the centre. This end is connected to the SMA female connector on the video transmitter or other device.
- An SMA to RP-SMA connection has no centre contact (the pin is missing or two pins meet) and does not work – the video transmitter may be damaged. For devices or antennas with RP-SMA, use a suitable adapter (not included).



Left: SMA female jack (socket), right: SMA male plug (pin)

2.2 Connecting

① Disconnect power – the video transmitter must be switched off (on a drone, disconnect the battery).

② Fit the SMA male plug of the cable straight onto the SMA female connector of the device and tighten the coupling nut by hand.

③ Screw the antenna onto the SMA female jack of the cable and tighten it by hand.

④ Bend the cable into the required shape so that the antenna points in the desired direction and does not interfere with the propellers or other moving parts.

⑤ Only with the antenna connected, switch on power to the video transmitter.

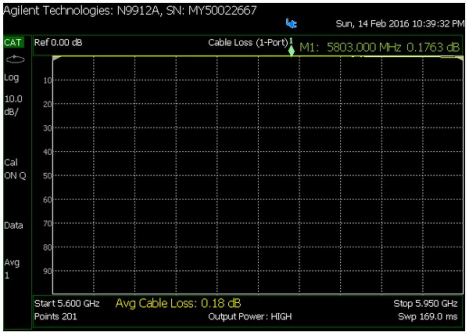
※ Tighten the connectors gently by hand. Use a wrench only to snug them lightly – excessive force will damage the thread or the cable at the connector.

2.3 Mounting the jack to the frame

The SMA female jack is fitted with a hex nut. It can therefore be passed through a hole in the frame or in an antenna mount and the nut tightened from the other side – the antenna is then firmly attached to the frame and stress is not transferred to the connector of the video transmitter. Tighten the nut only enough for the jack to hold and not rotate.

2.4 Correct use and care

- Never power on a video transmitter without an antenna connected – the cable without an antenna at its end does not replace it, and the transmitter may be damaged.
- Bend the cable smoothly, not into a sharp kink, and do not bend it repeatedly right next to the connectors. Set the shape once and do not change it unnecessarily afterwards.
- Do not use the cable or connectors to carry or hang the device, and do not pull the antenna by the cable.
- Keep the connectors clean and dry. Remove dirt from the thread with a dry brush; do not soak the cable or use solvents.
- After a crash, check that the connectors are not bent, the threads are not damaged and the centre pin is not broken. Do not continue to use a damaged cable.
- The manufacturer states the loss data for the 5.8 GHz band.
- Operate the video transmitter and antenna in accordance with the regulations on frequency bands and transmit power. The law of the country in which you operate the equipment always prevails.
- Store the cable in a dry place, out of direct sunlight and out of the reach of children.



Loss measurement by the manufacturer in the 5.6–5.95 GHz band – average loss 0.18 dB

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.