MMCX → SMA / RP-SMA Pigtail 90°

TrueRC · length 10 cm
User Manual



Before installation, check whether your antenna has an SMA or an RP-SMA connector. Never switch on a transmitter without an antenna connected.

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1. Product description

1.1 Purpose

The TrueRC pigtail is a short, low-loss coaxial adapter cable. One end has a **90° MMCX** right-angle connector, the other an **SMA** or **RP-SMA** connector, depending on the selected variant. It is used to connect an antenna with an SMA / RP-SMA connector to a device with an MMCX connector, typically a video transmitter (VTX) or a receiver on an FPV drone.

The pigtail is most often used to bring the antenna connector from the electronics inside the frame out to its edge. The SMA / RP-SMA connector has a threaded body with a nut that allows it to be fixed in a hole in the frame or in an antenna mount. The antenna can then be replaced without disassembling the drone, and in a crash the force is not transferred directly to the MMCX connector on the board.



90° MMCX → SMA pigtail (SMA variant shown)

1.2 Specifications and package contents

Product designation	TrueRC MMCX->SMA/RP-SMA Pigtail 90° (10cm)
Manufacturer	TrueRC
Variants	SMA, RP-SMA
Device-side connector	MMCX, 90° right angle
Antenna-side connector	SMA or RP-SMA (depending on variant), threaded body with nut
Length	10 cm
Loss (attenuation)	0.65 dB at 5.8 GHz
Package contents	1× pigtail
Not included	antenna, video transmitter, receiver or any other electronics

2. Use

2.1 Choosing the SMA or RP-SMA variant

SMA and RP-SMA connectors have the same thread and look almost identical, but they differ in the centre contact. With **SMA**, the plug (antenna) has a centre pin and the socket has a hole; with **RP-SMA** it is the other way round. The two types can be screwed together, but **the centre contact does not connect** and the antenna will not work.

- Choose the pigtail variant according to the connector of the antenna you want to use.
- Before installation, compare the centre contact of the antenna and the pigtail: one part must have a pin, the other a hole.

2.2 Installation

① Disconnect the battery and any other power source from the drone.

② Push the MMCX connector straight onto its counterpart on the video transmitter or receiver until it clicks into place. Turn the right-angle connector so that the cable runs without a sharp bend.

③ Pass the SMA / RP-SMA connector through the hole in the frame or antenna mount and secure it with the nut. Tighten the nut gently while holding the connector body so that the cable does not twist.

④ Route the cable away from the propellers and sharp edges of the frame and secure it against free movement, for example with a cable tie.

⑤ Screw the antenna onto the SMA / RP-SMA connector – by hand, without tools.

⑥ Only then connect the power and check the function (video and, where applicable, the receiver signal).

Never switch on a video transmitter or any other transmitter without an antenna connected – it may be damaged.

2.3 Handling and maintenance

- Do not bend the cable sharply, especially where it enters the connector.
- Disconnect the MMCX connector by pulling on the connector body, never on the cable.
- When screwing on the antenna, hold the body of the SMA / RP-SMA connector so that the cable does not twist.
- After every crash, check that the cable is not pinched, cut or broken and that the MMCX connector is seated firmly.
- Replace a damaged pigtail – higher attenuation reduces range and signal quality.
- Protect the cable and connectors from moisture and dirt.

2.4 Troubleshooting

Problem	Possible cause and solution
Very weak signal or no video	Connector type mismatch (SMA vs RP-SMA) – the centre contact does not connect. Use an antenna or pigtail of the correct type.
Video or signal drops out when moving	The MMCX connector is not fully seated or is loose. Re-attach it until it clicks; replace a loose connection.
Reduced range after a crash	Damaged cable or connector. Inspect the pigtail and replace it if damaged.

The pigtail is used with radio equipment. The user is responsible for complying with the permitted frequency bands and transmit power levels. The regulations of the country in which the equipment is operated always apply.

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

Rights of the buyer under Czech law

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.