MMCX → SMA Pigtail 90°

7.5 cm pigtail for connecting an SMA antenna
to a video transmitter with an MMCX connector



Never power on the video transmitter (VTX) without an antenna connected – it may be permanently damaged.

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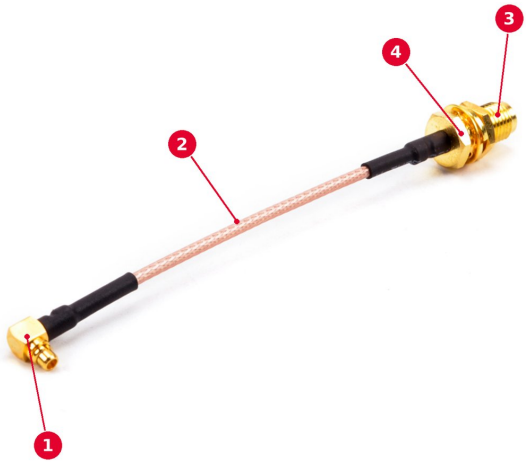
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1. Product description

1.1 What it is for

The MMCX → SMA pigtail is a short coaxial cable used to connect an antenna with an **SMA** connector to a video transmitter (VTX) with an **MMCX** antenna connector. The small MMCX connector on the transmitter board then does not have to carry the weight of the antenna or absorb impacts in a crash – the antenna screws into a sturdy SMA connector that is fixed in the drone frame or in an antenna mount.

The MMCX connector is right-angled (90°), so the cable runs from the transmitter parallel to the board and takes up less space in the frame. The SMA connector is a bulkhead type: it is passed through a hole in the frame or mount and secured with a nut. This allows the antenna to be replaced at any time without touching the electronics.



Parts of the pigtail

① MMCX male connector, right-angled 90° – plugs into the MMCX socket on the video transmitter.

② Coaxial cable, length 7.5 cm.

③ SMA female connector with external thread – the antenna screws in here.

④ Bulkhead nut and washer – used to fix the SMA connector in a hole in the frame or mount.

1.2 Specifications and package contents

Product designation	MMCX->SMA Pigtail 90° (7,5cm)
Connector on the transmitter side	MMCX male, right-angled 90°
Connector on the antenna side	SMA female, bulkhead, with nut and washer
Cable length	7.5 cm
Package contents	1× pigtail
Not included	antenna, video transmitter, antenna mount, tools

※ The connector genders (male / female) are stated according to the product photo. Before buying an antenna, make sure it has an **SMA male** connector (with a centre pin) – an antenna with an RP-SMA connector can be screwed on, but the centre conductor will not connect and the transmitter will be operating practically without an antenna.

2. Use

2.1 Installation

① Disconnect the battery from the drone. Always install the pigtail with the power off.

② Push the MMCX connector straight onto the MMCX socket of the video transmitter until it clicks. Do not push at an angle or with excessive force – the socket is soldered to the board and can be broken off.

③ Turn the right-angled connector so that the cable runs to the antenna mounting point without sharp bends or tension.

④ Pass the SMA connector through the hole in the frame or antenna mount and secure it from the other side with the washer and nut. Tighten the nut gently, just enough to stop the connector from turning.

⑤ Screw an antenna with an SMA male connector into the SMA connector. Tighten by hand, without pliers.

⑥ Check that the cable does not reach into the path of the propellers and is not pinched between frame parts. Only then connect the battery.

2.2 Usage and care

- Never power on the video transmitter without an antenna connected via the pigtail – the transmitter may be permanently damaged.
- Disconnect the MMCX connector by pulling on its metal body, never on the cable.
- Do not bend the cable sharply right next to the connectors and do not put it under tension – with repeated stress, these are the first places to get damaged.
- Do not use the antenna as a lever, and do not let crash forces pass through the pigtail into the transmitter – the SMA connector must always be firmly fixed in the frame or mount.
- After every crash, check that the cable is not cut or pinched, that the nut is holding and that the MMCX connector is still firmly seated.
- Keep the connectors clean and dry; replace a damaged pigtail.

2.3 Troubleshooting

Problem	Possible cause and solution
Weak or noisy image, short range	Check that the antenna is tightened and the MMCX connector is clicked in. Make sure the antenna has an SMA male connector, not RP-SMA. Inspect the cable for damage.
Image drops out when the drone moves or the cable is touched	The MMCX connector is probably not seated firmly, or the cable is damaged at the connector. Re-seat the connector or replace the pigtail.
SMA connector turns when screwing on the antenna	Tighten the bulkhead nut in the frame or mount.

3. Information for the EU and Czech Market

The information in Chapters 3 and 4 reflects the legal regulations of the Czech Republic. If you use the product in another country, follow the regulations of the country in which you operate it.

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

4.1 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.