MMCX → SMA / RP-SMA Pigtail

Straight antenna pigtail for video transmitters
User manual – SMA and RP-SMA versions



Read this manual before installation. Never power on the video transmitter without an antenna connected.

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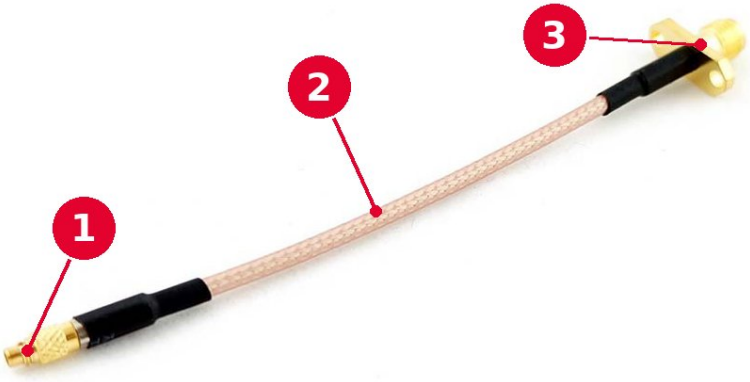
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1. Product description

1.1 What it is for

A pigtail is a short coaxial cable that connects a **video transmitter (VTX)** to an antenna. The transmitter end is fitted with a straight **MMCX** connector, the other end with an **SMA** or **RP-SMA** connector depending on the selected version. The antenna is therefore not connected directly to the transmitter but to the pigtail, whose end can be secured to the drone frame.

Neither the SMA nor the RP-SMA connector has a thread for securing the pigtail to the frame with a nut. In the product photo the connector is fitted with a square flange with holes; mount it to the frame or antenna holder in a way that suits the design of your frame.



Parts of the pigtail

① MMCX connector (straight) – connects to the video transmitter.

② Coaxial cable.

③ SMA or RP-SMA connector (depending on the version) – the antenna connects to it.

1.2 Specifications and package contents

Product designation	MMCX->SMA/RP-SMA Pigtail Straight
Manufacturer	Readytosky
Connector on the VTX side	MMCX, straight
Connector on the antenna side	SMA or RP-SMA (depending on the selected version)
Cable length	9 cm
Package contents	1× pigtail
Not included	antenna, video transmitter, mounting hardware

2. Use

2.1 Choosing the SMA or RP-SMA version

SMA and RP-SMA connectors look almost the same and have the same thread, but they differ in the arrangement of the centre contact. **They are not compatible with each other** – an SMA antenna will screw onto an RP-SMA pigtail (and vice versa), but the centre contact will not connect and the antenna will not work.

- Choose the pigtail version that matches the connector of your antenna (SMA or RP-SMA).
- Check the antenna connector type in the antenna's description or manual.

2.2 Installation

① Disconnect the drone battery – the video transmitter must be unpowered.

② Push the MMCX connector straight onto its counterpart on the video transmitter until it clicks. Do not push at an angle and do not use tools as a lever.

③ Route the cable without sharp bends, away from the propellers and so that it is not pinched between frame parts. The bend right behind the connectors is the most stressed point of the cable.

④ Secure the SMA / RP-SMA end firmly to the frame or antenna holder. It must not hang loose – otherwise the force of an impact is transferred to the MMCX connector and the transmitter.

⑤ Screw the antenna on by hand. Do not overtighten it.

⑥ Only then connect the battery and power on the video transmitter.

Never power on the video transmitter without an antenna connected and never disconnect the antenna or the pigtail during operation – the transmitter may be damaged.

2.3 Inspection and maintenance

- After every crash, check that the MMCX connector sits firmly on the transmitter and that the cable is not cut, pinched or broken at the connectors.
- Disconnect the MMCX connector by pulling on the connector body, never on the cable.
- Repeated plugging and rotating of the MMCX connector gradually reduces its retention force. If the connector sits loosely, replace the pigtail.
- Do not repair a damaged pigtail; replace it with a new one.

2.4 Troubleshooting

Problem	Possible cause and solution
Weak or noisy image, short range	The antenna and pigtail connector types do not match (SMA × RP-SMA) – use the correct version. The MMCX connector is not fully clicked in – reconnect it. The cable is damaged – replace the pigtail.
Image drops out when the cable moves	Loose MMCX connector or cable damaged at the connector – replace the pigtail.
The antenna cannot be screwed on	Check whether it is a different connector type; do not use force.

3. Information for the EU and Czech Market

The information in Chapters 3 and 4 is based on the legislation of the Czech Republic. If you use the product in another country, the law of the country in which the product is used is decisive – this also applies to the operation of the video transmitter with which the pigtail is used (permitted frequency bands and transmission power).

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



- 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.