u.FL → SMA / RP-SMA pigtail

User manual

Sequre · SMA and RP-SMA variants



Never power on the video transmitter without an antenna connected.

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1. Product description

1.1 Intended use

A short connecting cable (pigtail) with a **u.FL** connector at one end and an **SMA** or **RP-SMA** connector at the other. It is used to connect an antenna with a threaded connector to a video transmitter (VTX) that has only a miniature u.FL connector on its board. According to the supplier, it is intended for video transmitters operating at 5.8 GHz.

The SMA / RP-SMA connector is fixed with a nut in a hole in the frame or in an antenna mount. The antenna is then screwed onto the firmly held connector, so forces acting on the antenna in a crash or impact are not carried directly by the delicate u.FL connector on the video transmitter.



SMA variant (left) and RP-SMA variant (right)

1.2 Specifications and package contents

Product designation	Sequre u.FL->SMA/RP-SMA pigtail
Manufacturer	Sequre
Connectors	u.FL – SMA (SMA variant) u.FL – RP-SMA (RP-SMA variant)
Cable length	5 cm
Intended for	video transmitters (VTX) at 5.8 GHz
Package contents	1× pigtail
Not included	antenna, video transmitter, tools

The SMA and RP-SMA variants differ only in the centre contact of the antenna-side connector (see Chapter 2.1). All other data apply to both variants.

1.3 Parts



Pigtail – SMA variant

① u.FL connector – plugs onto the antenna connector on the video transmitter board

② thin coaxial cable

③ nut with washer for fixing the connector in a hole in the frame or mount

④ threaded SMA or RP-SMA connector – the antenna screws on here

2. Use

2.1 Telling SMA and RP-SMA apart

SMA and RP-SMA connectors have the same thread but differ in the centre contact. The antenna must have the same connector type as the pigtail – otherwise it will screw on, but the centre contact will not connect and the antenna will not work.



Left: SMA variant (centre socket), right: RP-SMA variant (centre pin)

- **SMA variant** – the pigtail connector has a centre socket. Use an antenna with an **SMA** connector (the antenna has a centre pin).
- **RP-SMA variant** – the pigtail connector has a centre pin. Use an antenna with an **RP-SMA** connector (the antenna has a centre socket).

2.2 Connecting to the video transmitter

Never power on the video transmitter without an antenna connected – this may damage it. Disconnect the battery from the drone before connecting or disconnecting.

① Place the u.FL connector squarely over its counterpart on the video transmitter board.

② Press it down evenly until it audibly or noticeably clicks into place. Do not press at an angle and do not use excessive force.

③ Route the cable so that it is not under tension, does not touch the propellers and is not pinched between frame parts.

④ To disconnect, lift the u.FL connector straight up by the connector itself, ideally with a suitable tool. Never pull on the cable.

2.3 Mounting the connector in the frame

① Remove the nut and washer from the SMA / RP-SMA connector.

② Push the connector through the hole in the frame or antenna mount.

③ Fit the washer, screw on the nut and tighten it so that the connector does not rotate. Hold the connector while tightening so that the cable does not twist.

2.4 Attaching the antenna

- Check that the antenna connector type matches the pigtail variant (Chapter 2.1).
- Screw the antenna on by hand and tighten it gently. Do not overtighten – you could damage the thread or loosen the connector in the frame.
- After mounting, check that the antenna is held firmly and that the cable at the u.FL connector is not under strain.

3. Care and troubleshooting

- The u.FL connector is miniature and not designed for frequent connecting and disconnecting. Connect it only when necessary.
- After a crash, check that the u.FL connector has not popped off the board and that the cable is not cut or pinched.
- Do not repair a damaged pigtail; replace it with a new one.

Problem	Possible cause and solution
Weak or no video	The antenna has a different connector type than the pigtail (SMA × RP-SMA) – use an antenna of the same type. The u.FL connector is not properly seated – press it again squarely onto the board.
Video drops out with movement	Loose u.FL connector or damaged cable – check the connection, replace a damaged pigtail.
Connector rotates in the frame	The nut is not tight – tighten it while holding the connector.

4. Information for the EU and Czech Market

4.1 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

4.2 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.

5. 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 4.1.
- 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.