SMA ↔ RP-SMA

Antenna connector adapter
Versions SMA->RP-SMA and RP-SMA->SMA



Read this manual carefully before use and keep it for future reference.

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1. Product description

1.1 What it is for

The SMA ↔ RP-SMA adapter is a passive coaxial adapter that lets you connect an antenna and a device whose SMA and RP-SMA connectors are not compatible with each other – typically an antenna and a video transmitter (VTX), FPV goggles, a video receiver or other radio equipment.

SMA and RP-SMA connectors have the same thread and look almost identical, but they differ in the centre contact: on RP-SMA the pin and the socket (hole) are swapped compared with SMA. Connecting SMA directly to RP-SMA therefore does not connect the centre conductor and the antenna does not work. The adapter bridges this difference. It is sold in two versions: **SMA->RP-SMA** (pin on both sides) and **RP-SMA->SMA** (hole on both sides).



Adapter in the SMA->RP-SMA version (pin on both sides)

1.2 Technical data and package contents

Product designation	Redukce SMA<->RP-SMA (SMA ↔ RP-SMA adapter)
Type	passive coaxial adapter, no power required
Version SMA->RP-SMA	pin on both sides: SMA male (coupling nut, pin) on one side, RP-SMA female (outer thread, pin) on the other
Version RP-SMA->SMA	hole on both sides: RP-SMA male (coupling nut, socket) on one side, SMA female (outer thread, socket) on the other
Package contents	1× adapter in the selected version
Not included	antenna, video transmitter, receiver or any other device, tools

2. Use

2.1 How to identify a connector

Before connecting the adapter, find out which connector the antenna has and which the device has. Two things matter: whether the connector has a coupling nut with an inner thread or an outer thread, and what is in the centre – a pin or a socket (hole).

Connector	Thread	Centre
SMA male	coupling nut with inner thread	pin
SMA female	outer thread	socket
RP-SMA male	coupling nut with inner thread	socket
RP-SMA female	outer thread	pin

A part with a coupling nut can only be connected to a part with an outer thread, and one of them must have a pin while the other has a socket. Pin against pin or socket against socket does not make an electrical connection.

2.2 Choosing the right version

A simple rule is enough to choose the version: **if both parts to be connected (antenna and device) have a socket in the centre**, you need the **SMA->RP-SMA** version (pin on both sides). **If both parts have a pin in the centre**, you need the **RP-SMA->SMA** version (hole on both sides).

Device connector	Antenna connector	Adapter version
SMA female (outer thread, socket)	RP-SMA male (nut, socket)	SMA->RP-SMA
RP-SMA female (outer thread, pin)	SMA male (nut, pin)	RP-SMA->SMA
SMA male (nut, pin)	RP-SMA female (outer thread, pin)	RP-SMA->SMA
RP-SMA male (nut, socket)	SMA female (outer thread, socket)	SMA->RP-SMA

2.3 Connecting the adapter

① Switch the device off and disconnect its power supply (for a video transmitter on a drone, disconnect the battery).

② Check that the centre pin is not bent or pushed in and that there is no dirt in the connectors.

③ Fit the adapter straight onto the device connector and tighten the coupling nut by hand. Turn only the nut, not the whole adapter or the device.

④ Screw the antenna onto the other side of the adapter in the same way and tighten it by hand.

⑤ Check that the joint is firm and does not wobble. Only then switch the device on.

Never switch on a video transmitter or any other transmitter without an antenna connected – it may be damaged. The adapter itself does not replace an antenna.

2.4 Use and care

- Tighten the nut by hand and with care. Excessive force or the use of pliers may damage the thread, the centre contact or the connector soldered to the device board.
- The adapter makes the connector longer and increases the leverage the antenna exerts on the device connector. On a drone, secure the antenna against vibration and impacts (e.g. with an antenna mount) and check the joint after every crash.
- Every joint in the antenna path adds a small signal loss. Use the adapter only where an antenna with a matching connector cannot be used, and do not chain several adapters unnecessarily.
- The adapter does not change the frequency or the transmit power of the device. The user is responsible for complying with the regulations on the operation of radio equipment; the law of the country in which you operate the equipment always applies.
- Protect the adapter from moisture, dirt and mechanical damage and store it in a dry place.
- Small part – keep out of the reach of children.

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



- 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.