

How to rotate the APC-7 RF connector



Article Overview

To rotate an APC-7 connector, turn the outer locking nut to extend or retract the internal male thread, allowing proper mating with another connector.

Understanding the APC-7 Connector

The APC-7 (Amphenol Precision Connector-7 mm) is a precision, genderless RF connector used in laboratory microwave equipment up to 18 GHz . Its genderless design means that any two connectors can mate without concern for male or female ends. Each connector contains a retractable male thread that can be revealed or hidden by rotating the outer locking nut .

Rotating and Mating the Connector

- Identify the locking nut: The outer ring of the APC-7 connector is the locking nut, which controls the internal thread.
- Rotate to retract or extend the thread:
- Retract the thread by turning the nut in one direction.
- Extend the thread by turning the nut in the opposite direction.
- Mate the connectors:
- One connector should have the thread extended while the other has it retracted.
- Align the connectors and gently push them together.
- Secure the connection: Once mated, ensure the locking nut is snug but do not overtighten, as excessive torque can damage the precision interface

Article Content

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7.0mm Connectors | Times Microwave Systems

7.0mm The 7.0mm connector is also commonly known as an APC-7 connector. 7.0mm connectors are largely used for laboratory

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APC-7 Product Category

Click to visit the APC-7 Products of Max-Gain Systems's Shop. Any products marked "In Stock" ship within 1 business day of paid order!

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APC-7 to SC Male Amphenol Precision Connector Adapter

The APC-7 ("Amphenol Precision Connectors") are a 50 ohm, unisex (every APC-7 mates with every other

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New Coax Connector Tops Performance Records

APC-7 (Amphenol Precision Connector - 7 mm) coaxial connectors were standard on network analyzers by the time I

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RFAAAPC7NJ Bulgin | Coaxial Connector (RF) Adapters | DigiKey

Buy now, ships today. RFAAAPC7NJ - Adapter Coaxial Connector N Jack, Female Socket To APC-7mm, Jack, Female Socket 50

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N to APC-7mm Coaxial Connector (RF) Adapters | Connectors ...

N to APC-7mm Coaxial Connector (RF) Adapters RF coaxial adapters are used to convert from one style coaxial to another coaxial

Dec 17, 2025

Operating Note, 11591A APC-7 Connector Tool Kit | Keysight

User Manuals Operating Note, 11591A APC-7 Connector Tool Kit Part number 11591-90003. The 11591A is a discontinued product.

Feb 26, 2026

APC-7 connector — Grokipedia

This allows any two APC-7 connectors to mate directly, facilitated by a retractable inner pin and outer thread mechanism operated

Mar 19, 2026

HP-Agilent-Keysight-equipment@groups.io | Stuck APC-7 connector

Put a few layers of masking tape around the knurled nut closest the panel and apply clockwise torque gently with channel-lock pliers.

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RF and Microwave Connectors Part-3

How to properly connect two APC-7 mm connectors. As the APC connectors are genderless, and hence the mating of connectors is

Nov 06, 2025

APC-7 connector — Wikipedia Republished // WIKI 2

The APC-7 connector (also referred to as a 7 mm connector) is a precision coaxial connector used on laboratory

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APC-7 connector

Although the illustration shows threads on one connector of the pair, all connectors contain a retractable male thread which can be

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131-91050 Amphenol RF | DigiKey

Order Amphenol RF 131-91050 (131-91050-ND) at DigiKey. Check stock and pricing, view product specifications, and order online.

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AMPHENOL APC-7 Rf Connector Adapter

The Amphenol APC-7 RF connector is built to meet the stringent requirements of the RF industry. It boasts a high-quality gold-plated

Jun 01, 2026

APC-7 connector — Grokipedia

Mechanical Structure The APC-7 connector employs a genderless (also known as sexless or hermaphroditic) design, in which all

Feb 12, 2026

is a tightened APC-7 connector supposed to be able to twist

I have something with two apc-7 connectors, so i got sma to apc7 adapters. One port is tight, and it wont move. The

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Hi im wondering How does COLLET work in APC-7mm Connector? i mean does it go inside when connector has been

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Electronic Warfare and Radar Systems Engineering Handbook

The precision 50 S APC-N and other manufacturers high frequency versions operate to 18 GHz. Note: Always rotate the movable

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Electronic Warfare and Radar Systems Engineering Handbook

Note: Always rotate the movable coupling nut of the plug, not the cable or fixed connector, when mating connectors. Since the center

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Adapters and Connectors

A few connectors, such as the APC-7, are designed to be sexless. Most are female connectors that have slotted fingers, which

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Guide to RF Coaxial Connectors and Cables

RF coaxial connectors provide vital RF links in communications, broadcast, EMC testing, commercial and military, as well as test and

Oct 30, 2025

RF Coaxial Connector Torque Specifications

Properly torqueing of threaded RF coaxial connectors is essential for reliable, maximum performance interfaces. It not only ensures

Oct 24, 2025

APC-7 connector explained

Although the illustration shows threads on one connector of the pair, all connectors contain a retractable male thread which can be

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11524A Adapter, APC-7 to Type-N (f)

Type Connector Type: APC-7, Type-N (f) Frequency Range: dc - 18 GHz Superior RF
Performance Return loss > 28 dB Insertion

Jul 31, 2025

is a tightetened APC-7 connector supposed to be able to twist

The simulation could be modeled by having one of those pannel mount devices that
has a pin in it, so there is a hole

Contact Us

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