

Adapters / Connectors

All adapters and connectors can be found here:
www.delock.com > Products > RRF radio frequency technology > Adaptors / Connectors



RF Cables

All RF Antenna cables can be found here:
www.delock.com > Products > RF radio frequency technology > Antenna cable



Adapter BNC



BNC male to:



BNC female to:



Connectors

These connectors can be attached to coaxial cables and can be connect with high frequency- / laboratory technology devices

- Material: nickel-plated brass
- For crimp installation

BNC male



BNC female



RF adapter

65610
Adapter
F female >
Coax plug



65618
Adapter
F male >
Coax plug



65616
F male for
cable with
Ø 5 mm



88411
Adapter
RP-SMA female >
RP-TNC male



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Caps

These caps can be mounted on antenna jack or plug in order to protect them against dirt and splash.



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we move the world



RADIOFREQUENCY TECHNOLOGY

The ideal solution for users of

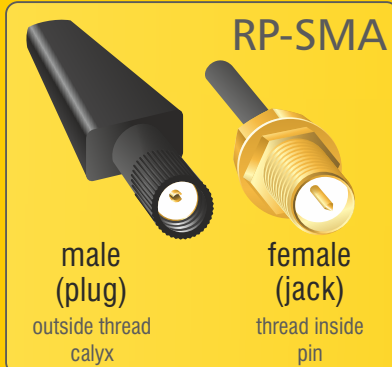
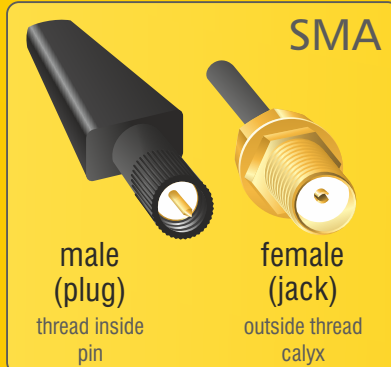
- SAT / TV Technology
- High Frequency Technology
- Laboratory Equipment
- Measurement
- Mobile radio
- Wireless LAN

Large antenna overview
Scale 1:2
Connectors / Adapters / Cables

RF Connectors – their characteristics and use

- Coaxial connectors for radio frequency applications; coaxial = neutral, surrounded by shielding
- Low electromagnetic interference and good electrical shielding

SMA / RP-SMA



- Standard antenna connection
- For high-frequency applications from 1 GHz to ca.16 GHz
- With screw thread
- Defined wave impedance 50 ohm

SMA: LTE / GSM / UTMS antennas
RP-SMA: WLAN antennas

RP-SMA (Reverse Polarity-SMA) was developed to avoid unauthorized access of a stronger antenna. The RP-SMA connector also has a female thread, but unlike SMA, which has a pin in the middle, RP-SMA has a cup in the middle (see picture). As a result, an SMA antenna connector is mechanically compatible with an RP-SMA jack, but not electrically compatible.

N-male

- Professional antenna connection
- For high frequency applications up to ca. 11 GHz
- Used for frequencies up to microwave region (range)
- With screw thread
- Defined wave impedance of 50 ohm



N-male WLAN outdoor antennas

A solid outer conductor provides a higher mechanical precision and avoids dirt and damage, thus antennas with N connectors are splash-proof and maintain their position against high wind speed.

BNC: Measurement Devices, Video, Digital Video

The bayonet lock ensures a quick and easy usage, e. g. for oscilloscopes, measurement devices or frequency generator BNC connections are also used to transfer weak direct currents, low frequency alternating currents and impulses in laboratories. High frequency signals are transferred in the video sector.

BNC

- For high frequency applications up to ca. 1 GHz
- With bayonet lock
- Defined wave impedance of 50/75 ohm

MHF (I-PEX) U.FL (Hirose) compatible

- Miniature coax connection
- For high frequency applications up to 6 GHz
- Defined wave impedance of 50 ohm

MHF: GPS, GSM, WiFi, antennas in mobile devices such as smartphone, tablet, etc. mini PCIe cards in embedded systems

Due to their small size, I-PEX MHF connectors are often used for small and portable devices. Delock is using the I-Pex MHF plug for its own products, which is compatible to the Hirose U.FL connector, thus providing powerful but cost efficient solutions.

TNC / RP-TNC

- Robust antenna connection
- For high frequency applications up to ca. 11 GHz
- With screw thread
- Defined wave impedance of 50 ohm

TNC / RP-TNC: WLAN antennas

The RP-TNC is a special form of the TNC connector with reversed inner part. TNC / RP-TNC antennas are provided with a screw thread and can be installed stable, e.g. in vehicles that are exposed to strong vibrations.

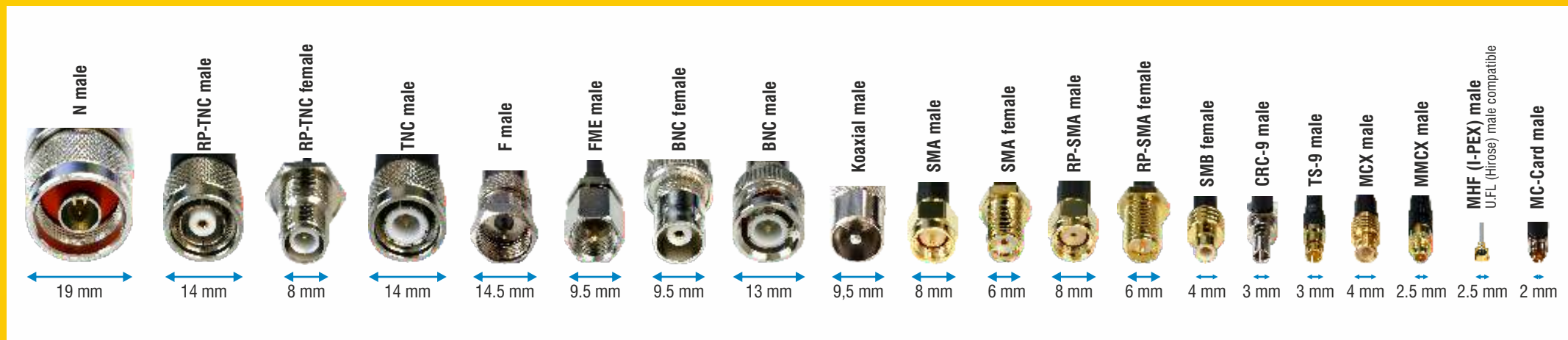
F-male

F: TV Satellite Technology

- SAT / TV connection
- For high frequency applications up to about ca. 5 GHz
- With screw thread
- Defined wave resistance impedance of 75 ohm

RF Connectors – compared

Scale ca. 1:1 (all millimeter data are only approximate values for size comparison)



Stands for antennas

RP-SMA

- Stand: RP-SMA female
- Cable: RP-SMA male
- Cable length: ca. 1 m RG 174 cable
- Operating temperature: -10°C – 55°C
- ABS UV resistant

SMA

- Stand: SMA female
- Cable: SMA male
- Cable length: ca. 1 m RG 174 cable
- Operating temperature: -10°C – 55°C
- ABS UV resistant

This practical antenna stand is characterized by its universality. It can be used:

1. on the wall fixed by screws
2. standing on the table
3. with one or more antenna stands of the same type cascaded to an array
4. sticking to metal surfaces by magnetism

