



**Amphenol<sup>®</sup> RF**

[www.amphenorlf.com](http://www.amphenorlf.com)



## SMPM



The SMPM is a micro-miniature interface ideal for use in high frequency applications. It is commonly used in board-to-board applications using a three-piece, floating bullet design, or in cable-to-board configurations using semi-rigid or conformable cable.

 65 GHz  50 Ohm

## HD BNC



The HD-BNC series delivers both 50 and 75 ohm performance in a footprint 4x smaller than traditional BNC connectors. Utilizing the familiar bayonet coupling and cable termination procedure as the BNC, the HD-BNC is a space-saving option that can be easily adopted.

 18 GHz  50 & 75 Ohm

## SMA 26.5 GHz EDGE MOUNT



High Frequency SMA End Launch Connectors offer excellent VSWR performance up to 26.5 GHz, with through-hole and traditional end launch options available in both 0.010" and 0.015" pin diameters. Excellent for use in cellular, broadband, and semiconductor testing applications.

 26.5 GHz  50 Ohm

## 4.3 / 10



4.3-10 connectors and adapters are smaller and up to 40% lighter than 7/16 connectors, making them ideal for wireless applications. Independent electrical and mechanical planes provide excellent electrical performance and low PIM, regardless of torque.

 12 GHz  50 Ohm



## AMMC



6 GHz  
50 Ohm

Micro-miniature coaxial connector with a super low-profile (1.4mm) and extremely small footprint (2mm x 2mm).

## AMC



6 GHz  
50 Ohm

Micro-coaxial connector with a low-profile (2.5mm) and small footprint (3mm x 3mm).

## SMP



40 GHz  
50 Ohm

SMP connectors are dependable, high-frequency connectors used in board-to-board or precision applications.

## MMCX



6 GHz  
50 Ohm

MMCX connectors offer broadband performance with low reflection to 6 GHz, in a micro-miniature package.

## MCX



6 GHz  
50 & 75 Ohm

The MCX series features secure, fast and easy snap-on/ snap-off coupling, with broadband capability.

## 1.0 / 2.3



10 GHz  
50 & 75 Ohm

1.0/2.3 connectors feature a push-pull coupling system which allows quick installation and ensures positive locking.

## MINI SMB



2 GHz  
75 Ohm

Mini-SMB 75 Ohm connectors are the same physical size as 50 ohm SMB connectors, and are often used in broadband applications.

## SMA



26.5 GHz  
50 Ohm

SMA connectors offer high performance in a threaded, compact design, excellent for antenna and base station applications .

## SMB



4 GHz  
50 Ohm

SMB connectors feature a snap-on coupling mechanism and are ideal for GPS, LAN, and broadband applications.

## SMC



10 GHz  
50 Ohm

SMC connectors offer high performance in a compact design that is excellent for telecomm and instrumentation applications .

## SMZ



4 GHz  
75 Ohm

SMZ connectors are 75 ohm versions of SMB, with a slightly larger form factor that is ideal for instrumentation applications .

## QMA



18 GHz  
50 Ohm

QMA connectors are quick-disconnect versions of the SMA connector, used often in antenna and base station applications .



## AFI



6 GHz

50 & 75 Ohm

The AFI interface is a high-float board-to-board solution for compact and blindmate applications.

## F & G TYPE



1 GHz

75 Ohm

Threaded F-Type connectors and slide-on G-Type connectors are 75 ohm, durable connectors commonly found in CATV applications.

## BNC



4 GHz

50 & 75 Ohm

Invented by Amphenol, the BNC series features a bayonet coupling system allowing for quick connect and disconnect.

## TNC



11 GHz

50 Ohm

The TNC is a miniature, threaded series with a constant 50 ohm impedance and a frequency range of DC - 11 GHz.

## UHF & MINI-UHF



0.5 GHz

UHF & compact Mini-UHF connectors combine low cost with a threaded interface, ideal for low frequency applications such as PA & ham radio.

## N TYPE



11 GHz

50 Ohm

N-Type connectors are durable, medium-size RF connectors used in many military and commercial wireless applications.

## QN



11 GHz

50 Ohm

QN connectors are quick-disconnect versions of the N-Type connector, used often in base station and datacomm applications.

## TRIAx



0.5 GHz

Triax connectors feature threaded or bayonet coupling mechanisms and are often used in applications where maximum RF shielding is required.

## TWINAX



0.5 GHz

78 & 95 Ohm

Twinax connectors feature threaded or bayonet coupling mechanisms with dual center contacts, often used in applications such as computer networking.

## 7/16



7.5 GHz

50 Ohm

7/16 connectors are robust, stable, weather-resistant designs engineered for low PIM wireless applications.

## FAKRA



4 GHz

50 Ohm

Designed for the automotive market, FAKRA connectors utilize SMB connectors in color/key coded housings to prevent mismatching.

## HSD



2 GHz

100 Ohm

HSD (High Speed Data) connectors are used for digital applications in vehicles, such as head units and infotainment modules.



## BETWEEN SERIES ADAPTERS



50 & 75 Ohm

Between Series Adapters are commonly used in applications requiring 2 dissimilar RF interfaces to be connected together.

## IN SERIES ADAPTERS



50 & 75 Ohm

In-Series Adapters are commonly used in applications requiring 2 of the same RF interfaces to be connected together.

## TEE ADAPTERS



50 & 75 Ohm

Tee adapters allow for three RF interfaces to be connected together.

## FIXED LENGTH CABLE ASSEMBLIES



50 & 75 Ohm

Pre-configured cable assemblies featuring commonly used connector configurations terminated to industry standard cable. Available in standard lengths from 3 inches to 100 feet.

## ATTENUATORS



6 GHz

50 Ohm

N-Type and SMA fixed attenuators are available in straight plug to straight jack configurations and offer flat attenuation across the 0-6 GHz frequency band.

## RF MICROSWITCH



6 GHz

50 Ohm

RF Switches are used as test points or for external antennas, and are available in different interfaces, like MMCX and MCX.

**Note:** Not all product families shown. Contact the factory for additional information.

## CUSTOM ENGINEERED SOLUTIONS

As a leader in the design and manufacture of RF interconnects, Amphenol RF understands that each and every application can be unique. When standard options aren't available, our global engineering team can develop the ideal solution for practically any application. We work with customers from concept through production to make sure every technical requirement is met.

### Engineering Services

- Modifications of existing designs
- Ganged Connector Solutions
- Custom Cable Assemblies
- Mixed Signal Applications
- Application Specific Optimized Return Loss
- PCB Launch Optimization

### Engineering Toolbox

- Pro/Engineer 3D Mechanical Design
- ANSOFT HFSS 3D RF Analysis
- ANSYS 3D Mechanical Analysis
- Agilent Vector Network Analyzers



# Amphenol® RF

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