**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.

![SMPM](image)

- **Max Frequency**: 65 GHz
- **Impedance**: 50 Ohm

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**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.

![HD BNC](image)

- **Max Frequency**: 18 GHz
- **Impedance**: 50 & 75 Ohm

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**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.

![SMA EDGE MOUNT](image)

- **Max Frequency**: 26.5 GHz
- **Impedance**: 50 Ohm

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**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.

![4.3 / 10](image)

- **Max Frequency**: 12 GHz
- **Impedance**: 50 Ohm
AMMC
Micro-miniature coaxial connector with a super low-profile (1.4mm) and extremely small footprint (2mm x 2mm).
6 GHz
50 Ohm

AMC
Micro-coaxial connector with a low-profile (2.5mm) and small footprint (3mm x 3mm).
6 GHz
50 Ohm

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

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

MCX
The MCX series features secure, fast and easy snap-on/ snap-off coupling, with broadband capability.
6 GHz
50 & 75 Ohm

1.0 / 2.3
1.0/2.3 connectors feature a push-pull coupling system which allows quick installation and ensures positive locking.
10 GHz
50 & 75 Ohm

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

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

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

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

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

QMA
QMA connectors are quick-disconnect versions of the SMA connector, used often in antenna and base station applications.
18 GHz
50 Ohm
**AFI**

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

**F & G TYPE**

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

**BNC**

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

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**TNC**

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

**UHF & MINI-UHF**

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

**N TYPE**

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

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**QN**

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

**TRIAX**

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

**TWINAX**

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

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**7/16**

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

**FAKRA**

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

**HSD**

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

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

IN SERIES ADAPTERS

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

TEE ADAPTERS

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

FIXED LENGTH CABLE ASSEMBLIES

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

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 MICROSwith

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
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