RF INTERCONNECT SOLUTIONS FOR COMMERCIAL AEROSPACE

Modern commercial aircraft operate as complex, connected ecosystems. Pilots navigate using real-time data, passengers expect uninterrupted inflight entertainment, and onboard systems continuously communicate with ground operations. At the heart of this connectivity are high-frequency interconnects that ensure signals move quickly and reliably across the aircraft. Amphenol RF designs compact and durable components built to withstand vibration, altitude, and extreme temperatures. Our solutions keep critical systems connected and maintain peak aircraft performance.

APPLICATIONS

- Autopilot
- Cockpit displays
- Weather radar
- Traffic collision avoidance systems
- Aircraft communication systems
- Navigation systems
- In-flight entertainment
- Wireless connectivity

CORE COMPETENCIES

- Vibration-resistant RF connectors
- Waterproof IP67/68 sealed and ruggedized solutions
- Supports modern radar, navigation systems
- Secure locking mechanisms for stability

PRODUCTS

| TNC | 2.92MM | BNC | HD-BNC | HD-EFI | MCX | N-TYPE | SMA | SMP | SMPM | TRIAX |

ALSO AVAILABLE

Board-to-Board Solutions

Variety of board-to-board solutions engineered to meet the different requirements of applications.

Adapters

Designed for applications requiring two RF interfaces to be connected together.

Custom Solutions

Customized solutions tailored to meet the specific design requirements of your project.

Cable Assemblies

Cable assemblies available for all industry standard coaxial cable types.

DESIGN FEATURES

IP-Rated Waterproof

Waterproof sealed solutions are engineered to protect your application from outside elements and are fully tested to IP67 or higher specifications in the mated and unmated condition.

Vibration-Resistant

One-piece bodies and other design considerations are taken into account to provide a more robust option for applications where there are concerns for the security of the locking interface due to extreme conditions.

COMMERCIAL AEROSPACE APPLICATIONS

SERIES	Autopilot	Cockpit Displays	Weather Radar	Traffic Collision Avoidance Systems	Aircraft Communication Systems	Navigation Systems	In-Flight Entertainment	Wireless Connectivity
TNC	●	●		●	●	●		●
2.92mm			●		●			
BNC	●			●	●		●	●
HD-BNC	●	●			●		●	●
HD-EFI					●		●	●
MCX	●	●		●	●	●	●	●
N-TYPE	●	●	●	●	●	●		●
SMA	●		●	●	●	●		●
SMP		●	●	●				
SMPM		●	●	●				
TRIAX	●	●	●	●	●	●	●	