

RF INTERCONNECT SOLUTIONS FOR

ADVANCED DRONE AND DRONE DEFENSE SYSTEMS

In the fast-evolving world of advanced drones and drone defense systems, reliable and resilient connectivity is crucial. Amphenol RF provides a comprehensive range of products designed to support these cutting-edge technologies, offering solutions that ensure seamless communication, even in the most challenging environments. From ruggedized connectors with vibration-resistant designs to waterproof IP67/68 sealed solutions, Amphenol RF's offerings are engineered to enhance the performance and durability of advanced drones and drone defense systems primarily utilized for military and defense objectives.



APPLICATIONS

Advanced Drones

- Reconnaissance and Surveillance
- Target Acquisition and Precision Strikes
- Electronic Warfare
- Logistics and Supply Delivery
- Combat Support
- Search and Rescue
- Anti-Submarine and Maritime Operations
- Decoys and Deception
- Training and Simulation

Drone Defense Systems

- Counter-Intelligence and Surveillance
- Perimeter and Base Defense
- Protection of Critical Infrastructure
- Battlefield Support
- Border Security and Reconnaissance
- Air Defense Integration
- Counter-Terrorism Operations
- Logistics and Supply Chain Security
- Nuclear Facility Security

CAPABILITIES

- Waterproof IP67/68 sealed solutions ideal for outdoor applications
- Ruggedized products offering dust, vibration, and corrosion resistance
- Custom cable assemblies and sub-systems
- Customized high-speed board level interconnects
- Customized hybrid solutions supporting RF, signal and power
- Extreme exposure RF interconnect designed with corrosion resistant plating
- Board-to-board connectors for direct connection between PCBs

PRODUCTS



AMC/AMC4



MCX/MMCX



N-TYPE



SMA/RP-SMA



SMP/SMPM



TNC/RP-TNC

EXTERNAL IP67
ANTENNASINTERNAL
ANTENNAS

BLACK PLATED

ALSO AVAILABLE



Fixed Length Cable Assemblies

Pre-configured cable assemblies featuring common connector and cable configurations available in standard lengths.



Adapters

Designed for applications requiring two RF interfaces (between-series or in-series) to be connected together.



Amphenol Ruggedized Products (ARC)

The ARC series is designed to offer more ruggedized connectors, adapters and cable assembly options in various durable interfaces that are ideal for applications that may experience harsh external conditions such as military and defense technologies.



QPL Military Approved RF Products

High-Performance connector series engineered to meet specific standards of quality for military and defense use. These RF interconnect products are pre-tested and proven to follow required specifications before procurement.

Advanced Drone and Drone Defense Applications

SERIES	IMPEDANCE	COMMUNICATION SYSTEMS	NAVIGATION (GPS/LIDAR)	VIDEO TRANSMISSION	AUTONOMOUS FLYING	SENSOR CAPABILITIES	DIRECTED ENERGY WEAPONS	DETECTION SYSTEMS	RF DRONE GUNS	KINETIC COUNTER-DRONE SOLUTIONS
AMC	50 Ohm	•			•		•	•	•	
AMC4	50 Ohm	•			•		•	•	•	
AMMC	50 Ohm	•			•		•	•	•	
BNC	50 & 75 Ohm	•		•						
FAKRA	50 Ohm			•	•		•	•		•
HD-BNC	50 & 75 Ohm	•		•						
MCX	50 & 75 Ohm	•		•	•					
MMCX	50 Ohm	•		•	•					
N-Type	50 Ohm	•	•	•	•					
SMA/RP-SMA	50 Ohm	•	•	•	•	•	•	•	•	•
TNC/RP-TNC	50 Ohm	•	•		•					
External IP67 Antennas	50 Ohm	•	•			•	•			
FPC/PCB Antennas	50 Ohm	•			•	•	•			
GNSS/GPS Embedded Antennas	50 Ohm		•				•	•	•	•

DESIGN FEATURES



IP67/68 Sealed Solutions

Waterproof sealed solutions are engineered to protect your application from outside elements and are fully tested to IP67/68 specifications in the mated an unmated condition.



Vibration Resistant Designs

One-piece bodies and other design considerations are taken into account to provide a more robust option for applications that experience movement and harsh external conditions.