

# AirBorn TriMate Rugged Circular Connectors >

Ensuring seamless integration in demanding systems, AirBorn TriMate Rugged Circular Connectors are compatible with standard backshells and MIL-DTL-39029 crimp contacts. Strong vibration resistance, waterproof sealing and a fully-mated indicator enhance reliability in harsh conditions. Featuring various plug types for installation flexibility, AirBorn TriMate connectors are ideal for aerospace, defense, space and industrial environments.



## ADVANTAGES AND FEATURES

### Streamlines maintenance and upgrades

A three-in-one plug enables easy reconfiguration of fielded equipment and supports diverse application requirements, minimizing downtime and reducing part counts.

### Supports design flexibility and ease of installation

These connectors are compatible with MIL-DTL-38999 and M85049 backshells, and enable use of standard accessories. Designers can integrate these connectors into existing systems, avoiding costly redesigns or adaptations.

### Supports PCB mounting and flexible circuit integration

Plated through-hole or solder-cup options allow stable mounting of connectors directly onto the PCB, facilitating easy assembly and repair in PCB-mounted connector systems.

### Meets a range of design needs

Reverse gender availability for unique system requirements and cable management strategies enable engineers to overcome design constraints.

### Simplifies assembly and ensures correct mating

Mechanical and color-coded keying enable secure mating, while fully-mated indicators and snap-in contact systems simplify assembly and reduce the risk of installation errors.

### Provides robust performance in a small package

Smaller and lighter than MIL-DTL-38999 connectors, AirBorn TriMate connectors offer high-vibration resistance, a wide operating temperature range and reliable operation in harsh conditions.

### Improves sealing, reduces weight and enhances cable durability

Overmolded strain relief options reduce the risk of connector damage and loosening while providing protection from environmental ingress, including moisture and dust.

## MARKETS AND APPLICATIONS

### Aerospace

Commercial airplanes  
Helicopters

### Agricultural Machinery

Electronic warfare systems  
Radar systems  
Soldier wearables  
Unmanned drones

### Defense

Mining equipment



Mining Equipment



Satellites



Unmanned Drones

### Industrial Automation

Factory robotics  
Heavy equipment  
Industrial robotics

### Space

Satellites

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