



# Commercial Aviation Interconnects & Value-Added Services

AirBorn engineers design & fabricate to the highest aerospace standards imaginable so airline passengers can sit back, relax and enjoy their flight.



## Delivering High-Quality and Innovative Electronic Solutions & Services Since 1958

AirBorn is an employee owned company whose core business is engineering & manufacturing specialized connectors & electronic components for OEMs worldwide. We serve customers across many industries including: Commercial Air, Industrial, Medical, Military/Defense & Space Exploration.

AirBorn components are an integral part of many commercial aviation applications. Beginning with **Boeing's 777 & 737 Aircraft** and extending to the **Airbus 320**, **CFM International's Leading Edge Aviation Propulsion or LEAP Engine** and many more. Our engineers and fabricators work hard to devise components that work seamlessly within next-generation commercial aircraft for eager travelers all around the globe. Customers trust AirBorn products to perform flawlessly in high-intensity commercial air applications and have since our inception in 1958.

From deep sea to deep space, our innovative interconnect, value add & box build solutions are chosen by leading commercial air companies to operate their most critical systems, in the most hostile environments.





# Rugged & Reliable Connectors

Commercial air applications require the most rugged & reliable, high-performance and lightweight connectors available. Connectors that must withstand frequent take off and landing cycles, temperature swings and high vibration are imperative. At AirBorn, dependability begins where the pin and sockets meet: the contact system. Our contact systems utilize multiple contact points — a key differentiating factor between truly rugged & reliable connectors and less reliable, “commercial-grade” connectors.

## Styles & Configurations

We have a wide variety of form factors to choose from including rectangular, micro-D, nano-D, circular, interposers, and strip connectors. Multiple termination options are available for board, flex circuit, panel, and cable installations. Our wide range of body materials and mounting and mating hardware options allow customers to configure the exact connector for your design — over 100 million possible configurations!

## High Speed

Progressively, design engineers are looking for interconnects that accommodate high-speed data rates while enduring elongated flight conditions. At AirBorn, dedicated engineering teams design and optimize our connectors & cables for superior signal integrity, for use outside of the highly-controlled environs of a data center.

## Custom

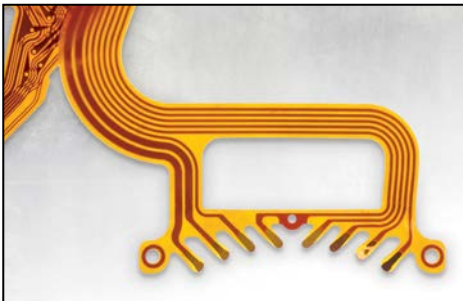
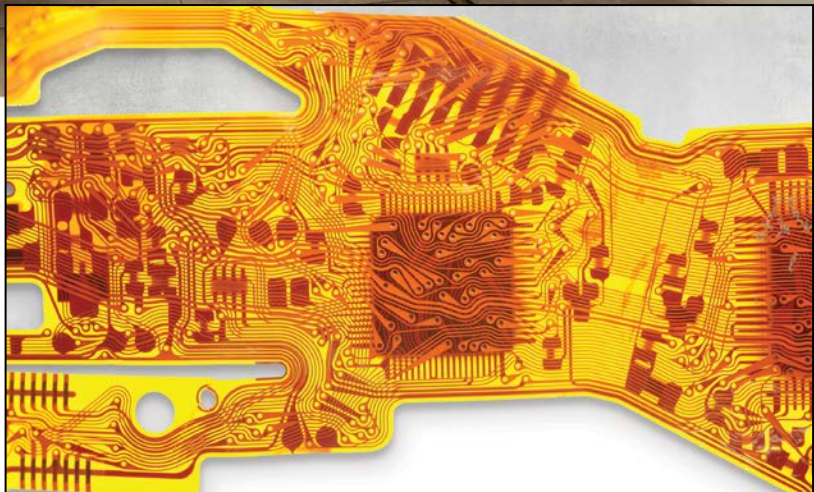
Still can't find what you need? Talk to us — we have a team of application and design engineers ready to develop solutions to tackle any interconnect challenges.



Multiple points-of-contact



\*Series 360 circular connectors are currently available only in North America.

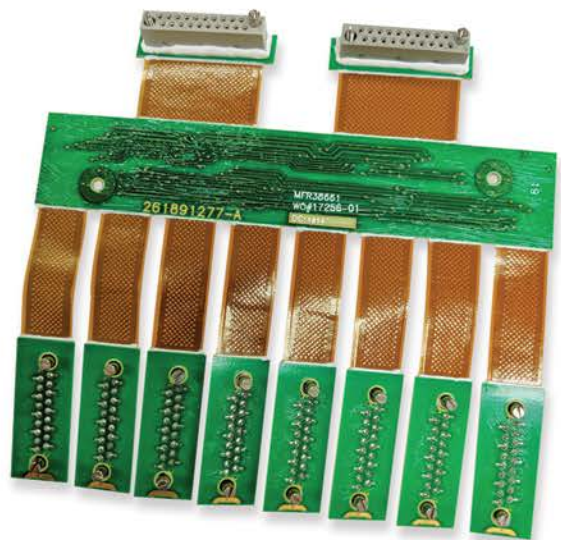


## Flexible Circuit Assemblies

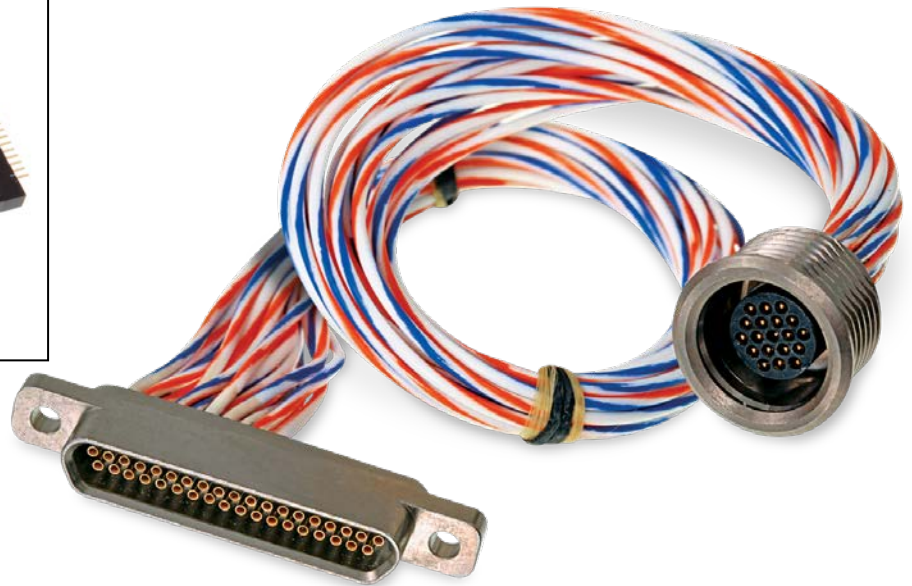
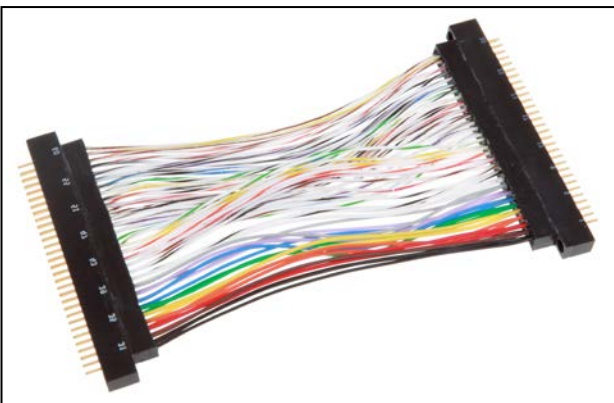
AirBorn designs and manufactures flexible circuit assemblies, ideal for use where weight, space, consistency and 3D routing are important factors. We can manufacture to your design or ours, leveraging years of flex design experience and expertise. We produce flex assemblies to work with any type of connectors and electronic components. Our flex assemblies are used in commercial air applications like the engine controllers for the LEAP engine, the driving force for the next-generation of commercial air jets, and much more.

### Cable, Flex, or PCB Assembly?

Not sure which option is best for your application? Give us a call. We design and manufacture cable assemblies, flex circuit assemblies, and printed circuit board assemblies and will provide impartial advice on which is best for your specific design requirements.



LEAP-X Jet Engine Flex Assembly

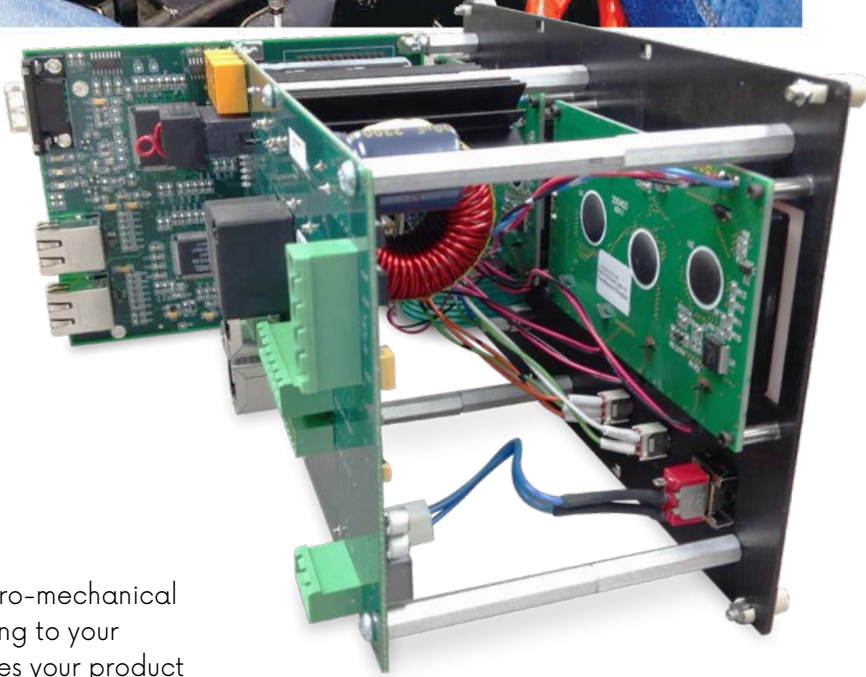


## Custom Cable Assemblies

AirBorn is much more than a “connector company”. While connectors are our core business, we also design and manufacture custom cable assemblies. We can manufacture to your unique requirements or collaborate on a design from the start. We handle all wire types: fiber, RF, ribbon, braiding, and more — terminated with any connector, whether it’s AirBorn’s or not.

### Cable, Flex, or PCB Assembly?

Not sure which option is best for your application? Give us a call. We design and manufacture cable assemblies, flex circuit assemblies, and printed circuit board assemblies and will provide you impartial advice on which option is best for your specific design requirements. Contact us to schedule time with one of our design engineers.



# Complete Custom Chassis/Box Builds

AirBorn will design and manufacture high-level electro-mechanical and complete chassis/box build assemblies according to your project's specific needs. Our extensive testing ensures your product consistently performs to expectations and is ready to take on the challenges that Commercial Aviation applications present.

Processes to ensure the quality of your build:

- Cable & harness integration
- Detailed material planning & logistics management
- Multi-plant capabilities accommodate volume orders & on-time delivery
- Procurement & inspection of standard/custom parts
- UL & CSA certified manufacturing facilities

We fabricate complete builds for our customers in the Commercial Aviation market space. Our components withstand temperature, humidity and pressure variances inherent in air travel and reliably stand ready for more.



## Engineering & Lab Services

AirBorn employs 50+ degreed engineers in-house to assist in design and product development; expertly guiding from inception through mass production. AirBorn utilizes an A2LA accredited\* laboratory to test against the highest standards imaginable to ensure our products stand up to the rigors of your prescribed application. From temperature fluctuations to vibration & shock tests, we design unmatched quality into our interconnects and cable assemblies to withstand the rigors of commercial aviation.

When your goal is to design unrivaled excellence, ruggedness & reliability into your product — count on AirBorn quality to get you there.

- Contact Engagement & Separation Forces
- Contact Retention/Wire Retention
- Dielectric Withstanding Voltage (Sea Level & Altitude)
- Durability
- Insert Retention
- Insulation Resistance
- Low Signal Level Contact Resistance
- Mating & Unmating Force
- Resistance to Soldering Heat
- Shock
- Solderability
- Temperature Cycling
- Vibration
- X-Ray/CT imaging & inspection

\*Not all testing listed above is included in our A2LA Scope of Accreditation. Please consult A2LA Certificate #4132.01 for a list of accredited tests.



# The AirBorn Advantage



Engineering  
Design, Prototype  
& Qualification



Strategic Tooling  
& Automation



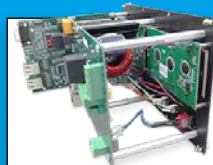
Space/Mil-Aero  
Lab Services



Engineered  
Power Supplies



High-Level  
Assemblies



Chassis &  
Box Builds



Cable  
Assemblies



Flexible Circuit  
Assemblies



PCB  
Assemblies



Rectangular  
Connectors



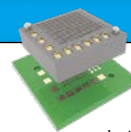
Micro-D  
Connectors



Nano-D  
Connectors



Circular  
Connectors



Interposers

# AirBorn