COMMERCIAL
# Aerospace

# PCB / Flex Circuit Assemblies

Glenair
ISO 9001 Certified
AS9100 Certified
Worldwide Quality System

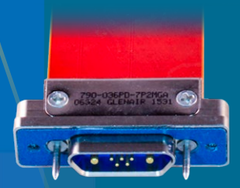
RoHS MATERIALS

REACH MATERIALS

**Glenair flex circuit interconnect assemblies for commercial aerospace applications** are equipped with connectors, contacts, and termination designs exactingly aligned with the Federal Aviation Administration 14 CFR 25.1701 standard, ensuring the assemblies are suitable for use in avionics and other LRU equipment in each respective aircraft zone. Assemblies are optimized for reliable life-of-system performance in pressurized aircraft applications characterized by such stress factors as vibration, shock, temperature extremes, and rough handling. PCB assembly materials are RoHS, REACH, and DO-160 compliant.

TURNKEY CONNECTORIZED
FLEX CIRCUIT ASSEMBLIES

## Optimized for **Harsh EWIS** Applications



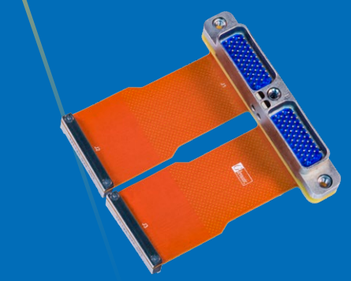
Crimp-contact Series 79 family of precision-machined environmental rectangular connectors for standard signal, power, high-speed and RF

Series 23 "better than QPL" SuperNine environmental and hermetic circular suitable for use in both pressurized and non-pressurized aircraft zones

Micro miniature Series 80 Mighty Mouse and Series 806 Mil-Aero environmental and hermetic connectors for aggressive size and weight reduction

ADVANTAGES OF FLEX CIRCUITRY
FOR AEROSPACE APPLICATIONS:

## IAW DO-160 **Environmental** Conditions



| Flex Performance Specifications for Aircraft Zones 1, 2, and 8 | |
|---|---|
| **Environmental Stress Factors** | **Applicable RTCA/DO-160 Requirements** |
| Vibration | DO-160 Category S and H (Table 8-1) |
| Shock | DO-160 Category A, Test Procedure 1 |
| Ground Survival Temperature | -65° to 95°C; DO-160 Category A3 (Table 4-1) |
| Pressure Differential | Sea level to 10kft; DO-160 Category A3 (Table 4-1) |
| Operating Temperature | -55° to 85°C; DO-160 category A3 (Table 4-1) with Temperature change rate per DO-160 Category A (10 C min per minute) |

PROVEN PERFORMANCE
COMMERCIAL AEROSPACE

## **Flex and Rigid Flex** Assemblies

**Types and kinds of assemblies for aircraft LRU applications**

- **Single-sided, double-sided, and multilayer flex circuitry**
- **Flex, rigid flex, and FR-4 board assemblies**
- **Through-hole and surface-mount connector terminations**
- **Integrated EMI / RFI shielding designs**
- **Long-length Fairway-Flex assemblies**

Fairway-Flex™
LONG-LENGTH FLEX ASSEMBLIES

Series 23 SuperNine and Micro-D flex assembly with discrete RF Coax lines for use in a Zone 2 avionics application

Unique Ethernet and USB flight deck multibranch flex assembly with panel sealing

Point-to-point flex jumper for an aircraft power transmission application (Zone 1 fuselage)