

COMMERCIAL Aerospace

PCB / Flex Circuit Assemblies



Glenair flex circuit interconnect assemblies for commercial aerospace applications are equipped with connectors, contacts, and termination designs exactly 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

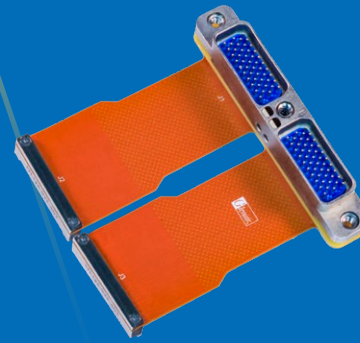


Series 23 "better than QPL" SuperNine environmental and hermetic circular suitable for use in both pressurized and non-pressurized aircraft zones



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

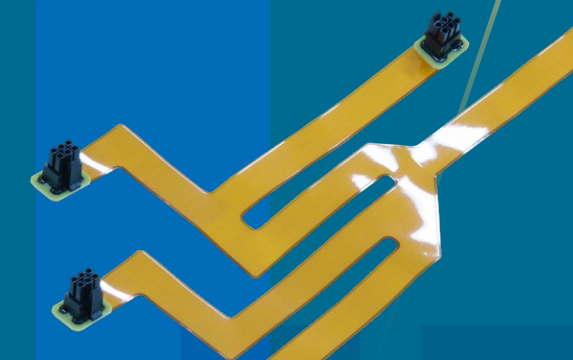
Flex Performance Specifications for Aircraft Zones 1, 2, and 8	
Environmental Stress Factors	Applicable RTCA/DO-160 Requirements
Vibration	DO-160 Category S and H (Table 8-1)
Shock	DO-160 Category A, Test Procedure 1
Ground Survival Temperature	-65° to 95°C; DO-160 Category A3 (Table 4-1)
Pressure Differential	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

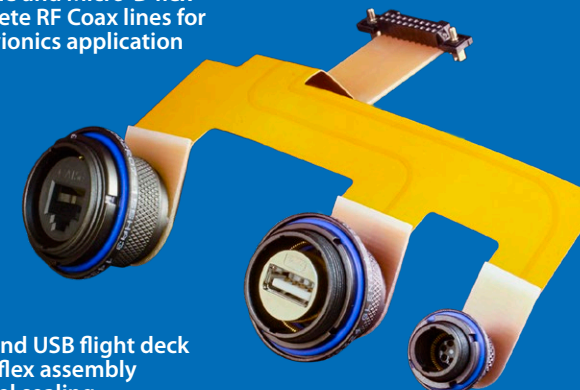
Flex and Rigid Flex Assemblies

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



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)