

Signal, Power, Ethernet, and Fiber Optic Interconnects

Providing the next generation of inserts for increased broadband and fiber optic data transmission.

The Challenge

Today's aircraft flight control avionics are becoming increasingly sophisticated. Flight avionic data communication and landing systems are requiring increased data transmission rates as they consolidate previously separate functions into smaller, lighter integrated packages.

The Engineered Product Solution

Design a series of connector inserts that can be used in various sized ARINC 600 next generation avionic connectors that will allow signal, power, Ethernet, and fiber optic data transmission in a compact robust design.

Innovative Interconnect Benefits

- 30Q2: Features 28 signal contacts and 2 quadrax contacts in a single size 1 insert.
- 13Q2: Features 11 power contacts and 2 quadrax contacts in a single size 2 insert.
- 17Q2: Features 12 fiber optic contacts, 3 power contacts, and 2 quadrax contacts in a single size 2 insert.
- Front release front removable 30Q2 socket and 13Q2 / 17Q2 pin versions available in addition to standard rear release rear removable pin and socket versions.
- Pin and socket versions available with a grommet for environmental sealing applications.

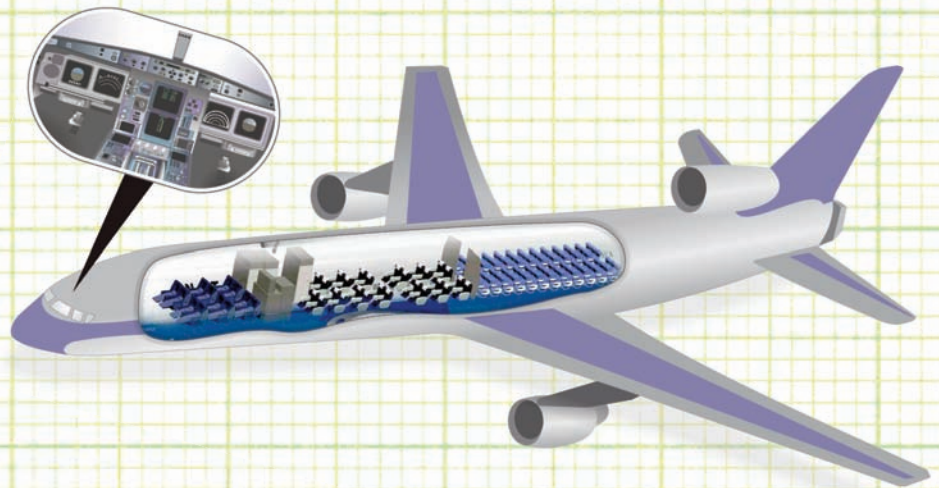
Attributes and Values

Utilized in connectors that are designed into avionic boxes that consolidate previously separate functions saving weight, space, and capital.

Can be combined with existing signal, power, and quadrax inserts to develop an infinite combination of connector layouts to meet future bandwidth requirements.

17Q2 provides power, quadrax, and fiber optic termini in a single insert.

17Q2 insert accommodates ARINC 801 1.25 mm genderless termini which are the termini of choice for new fiber optic systems.



Applications

- Instrument Landing Systems
- GPS Landing Systems
- Avionic Common Data Network Systems
- Flight Navigation Systems
- Backbone Ethernet Network Modules
- Integrated Surveillance Systems