The main passenger cabin, crew and galley areas are housed in the fuselage mid-wing. This pressurized zone is characterized by moderate environmental stress factors such as fluid condensation, humidity, temperatures in the -65° to +95°C range, and moderate dynamic vibration. The electrical wiring interconnect system utilizes mostly conventional interconnect technology, with an emphasis on general weight reduction, reliability, and speed-of-assembly. Production breaks are a significant challenge for the EWIS engineer, with cost control of interconnect interfaces a principal design requirement. The pressurized interface between the mid-wing fuselage and the wings requires careful attention in the specification and use of pressure bulkhead feedthrus.

The Glenair SpliceSaver™ Crimp wire termination solution saves time and labor over manual DO150 splicing. Ideally suited for crown and floor wiring in Zone 1, it features Stinger™ crimp contact technology with integrated retention mechanisms, small form-factor, lightweight composite, and supports 1–3 wire terminations.

**ZONE 1 Application Guidelines**

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<th>Environmental Stress Factors</th>
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**EWIS Technologies that Improve Harness Assembly Speed and Reliability in Pressurized Passenger / Crew Aircraft Zones**

- **FUSELAGE Mid-Wing**
- **Pressure Bulkhead Feedthrus, Pressure Seal Bulkhead Feedthrus**
- **EWIS compliant test report available, ref. GT 15-106**
- **Crown Wiring**
- SATCOM / Ku Band Antennas, IFE, Lighting, Cabin Audio System, Oxygen System, Redundant Electrical Systems
- **Aft Pressure Bulkhead Feedthrus**
- **Below Passenger Floor Wiring**
- Left and Right Main Longitudinal Wiring Runs, Cargo Hold Wiring, Flight Control Wiring, Generator and APU Power Feeders
- **Production Break**
- **Electrical Feedthrus**
- **Zones 1 Application Guidelines**

For reliable sealing of unused contact cavities—without the use of electrical contacts.

- **DUMMY CONTACT SEALING PLUGS (DCSP)**
  - For Zone 8
  - Powerful tool in EWIS weight reduction
  - Leverages connector contact clip for secure retention of the sealing plug—no FOD
  - Easy-to-install single piece design
  - Visible quality control / confirmation of cavity fill from back of connector
  - EWIS compliant test report available, ref. GT 15-106

**ZONE 1**

**Fuselage Mid-Wing**

Forward barrel section plus center section and aft-of-wing barrel section (pressurized passenger / crew cabin)