

WING and WHEEL WELL

Unpressurized Zone

ZONE 5

Wing and Wheel Well

An unpressurized, harsh environmental zone

Wing leading and trailing edges are harsh environments for EWIS installations. EWIS wire harnesses in this zone are exposed on some aircraft models whenever the flaps or slats are extended. Other potential sources of mechanical damage include slat torque shafts and bleed air ducts.

Wheel wells are also subject to severe external environmental stress factors including impact damage from rocks, ice, and mud, as well as from vibration and chemical contamination. Adequate protection of EWIS cabling in these areas includes shielding, jacketing, and in some applications, enclosure in metal-core or polymer-core conduit.

Zone 5 Application Guidelines	
Environmental Stress Factors	Applicable RTCA/DO-160 Requirements
Vibration	DO-160 Category S and H (Table 8-1)
Shock	DO-160 Category D, Test Procedure 1
Ground Survival Temperature	-65° to 200°C; DO-160 Category D3
Pressure Differential	Sea level to 50kft; DO-160 Category D3
Operating Temperature	-55° to 200°C; DO-160 category D3
Moisture	Exposure to humidity and condensation; DO-160 Category B



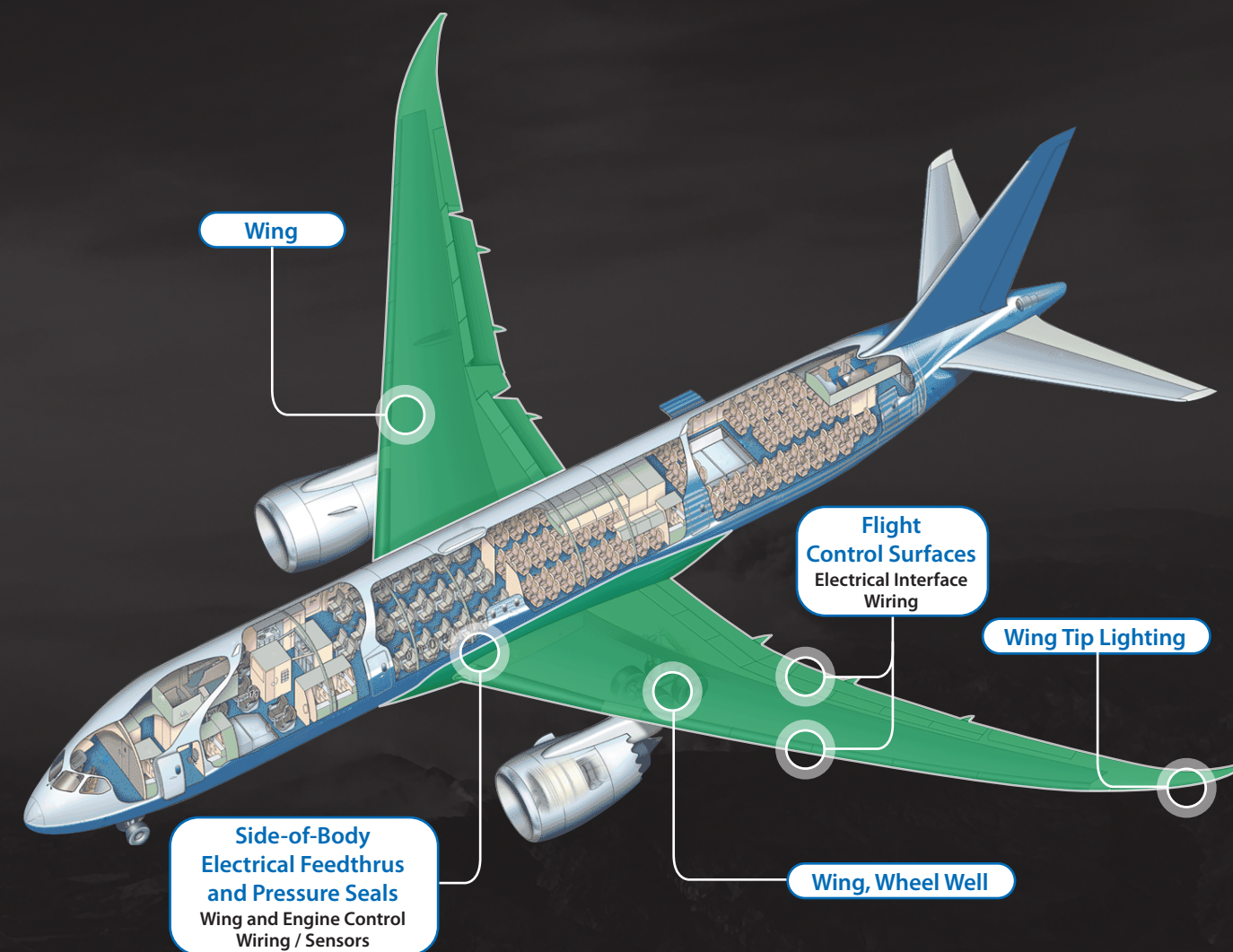
Series 806 Mil-Aero

- Series 806 Mil-Aero: Advanced-performance ultraminiature circular connector
- Ideally suited for all unpressurized aircraft zones including Zone 5
- One-to-one equivalent performance to MIL-DTL-38999 Series III, including high-altitude immersion and DWV
- Outstanding anti-decoupling performance, even in small shell sizes
- Significant size and weight savings compared to MIL-DTL-38999 Series III

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Rugged, Harsh-Environment Interconnects and Wire Protection Technologies, Optimized for Unpressurized / SWAMP Zones



TURNKEY WIRE PROTECTION ASSEMBLIES FOR WHEEL SENSOR AND BRAKING SYSTEMS



- FAA qualified flexible polymer and metal-core conduit materials
- Ideally suited for rugged aircraft zones including Zone 2
- Impact-resistant and immune to chemical contamination
- Integrated overbraiding for added strength and EMI/RFI immunity