



- » Acoustic Noise Generation
- » Smoke Containment and Smoke Detection
- » Mechanical Reliability and Endurance
- » Electrical Interconnect and Signature
- » Hi Pot, Insulation Resistance and Bonding

#### IN-HOUSE ENGINEERING

- » Acceptance Test Plan (ATP)
- » Acceptance Test Report (ATR)
- » Acoustic Noise Emission Test Plan
- » Acoustic Noise Emission Test Report
- » Aerodynamic Analysis
- » Aerodynamic Instability Analysis
- » Air Leakage Test Plan
- » Air Leakage Test Report
- » Aircraft Flight Manual (AFM) or Supplement
- » Aircraft Maintenance Manual (AMM) or Supplement
- » Avionics Systems Analysis
- » Beacon Light Evaluation
- » Bird Strike Trajectory Analysis
- » Compliance Report (FAR)
- » Compliance Report (Technical Specification)
  » Component Maintenance Manual (CMM)
- or Supplement
- » Cooling Test Plan (Thermal Stability Appraisal)
- » Cooling Test Report (Thermal Stability Appraisal)
- » Damage Tolerance Assessment (DTA)
- » Data List (Master or Supplemental)
- » Declaration of Design Performance (DDP)
- » Decompression or Overpressure Burst Test Plan
- » Decompression or Overpressure Burst Test Report
- » Differences Summary Document

#### **MODELING & DESIGN**

- » Pro/Engineer Wildfire
- » Routed Systems Designer
- » AutoCAD
- » CATIA
- » Solidworks

#### SIMULATION

- » Finite Element Analysis
- Mechanica
- Algor MES
- » Computational Fluid Dynamics
- FloEFD

#### PART MANUFACTURING APPROVAL (PMA)

» FAA PMA Facility
 » EASA EPA Facility

#### **IN-HOUSE FAA CERTIFICATION SUPPORT**

- » Designated Engineering Representatives (DER)
   Electrical Systems and Equipment
- Mechanical Systems and Equipment
- » Designated Airworthiness Representatives (DAR)
- » Designated Manufacturing Inspection
- Representatives (DMIR)

» Electrical Load Analysis

- » Electromagnetic Interference (EMI)
- Immunity Testing
- » Electromagnetic Interference (EMI) Test Plan
  » Electromagnetic Interference (EMI)
- Test Report
- » Engineering Order (EO)
- » Environmental Test Plan
- » Environmental Test Report
- » Failure Modes and Effects Analysis (FMEA)
- » Fire Penetration Test Plan
- » Fire Properties Assessment or Fire
- Properties Test Report
- » Fire Properties Test Plan
- » Flight Test Procedure » Ground Test Procedure
- » Grounding and Bonding Report
- » Functional Hazard Analysis
- » Heat Release Test Plan
- » Icing Analysis
- » Illustrated Parts List (IPL) or Supplement
- » Instructions for Continued
- Airworthiness (ICA)
- » Instructions for Continued
- Airworthiness EWIS
- » Interface Connectors List
  » Interface Loads Analysis
- » Materials and Usage Summary
- » Product Specification
- » Project Specific Certification Plan (PSCP)

- » Qualification Test Plan (QTP)
- » Qualification Test Report (QTR)
- » Reliability Analysis
- » Service Bulletin
- » Smoke Containment Test Plan
- » Smoke Containment Test Report
- » Smoke Detection Test Plan
- » Smoke Detection Test Report
- » Static Test Plan
- » Structural Comparative Analysis Report
- » Structural Repair Manual (SRM)
- or Supplement
- » Structural Substantiation Plan
- » Structural Substantiation Report
- » Structural Substantiation Summary
- » Sway Space Analysis
- » System Safety Assessment (SSA)
- » Ultimate Strength Analysis (USA)
- » Ventilation Air Flow Analysis
- » Ventilation Test Plan
- » Ventilation Test Report
- » Vibration and/or Shock Test Plan
- » Vibration and/or Shock Test Report
- » Weight & Balance Report
- » Weight Progress Report
- » Windmilling Analysis
- » Windmilling Test Plan
- » Windmilling Test Report
- » Wiring Diagram Manual (WDM)
- or Supplement

# **Streamlined SATCOM Integration**



requirements

#### » In-house design capabilities for custom interconnect solutions » In-house testing and qualification

» Custom designs to meet critical

# **Antenna Mounts**

# Contacts

- » Over 400 QPL approvals
- » Full line of AS39029, AECMA, EN, BACC, ESC and BAN

# **Backshells**

- » Compact and lightweight backshells in standard sizes
- » Special mounting features for mechanical stability

# **Filtered Connectors**

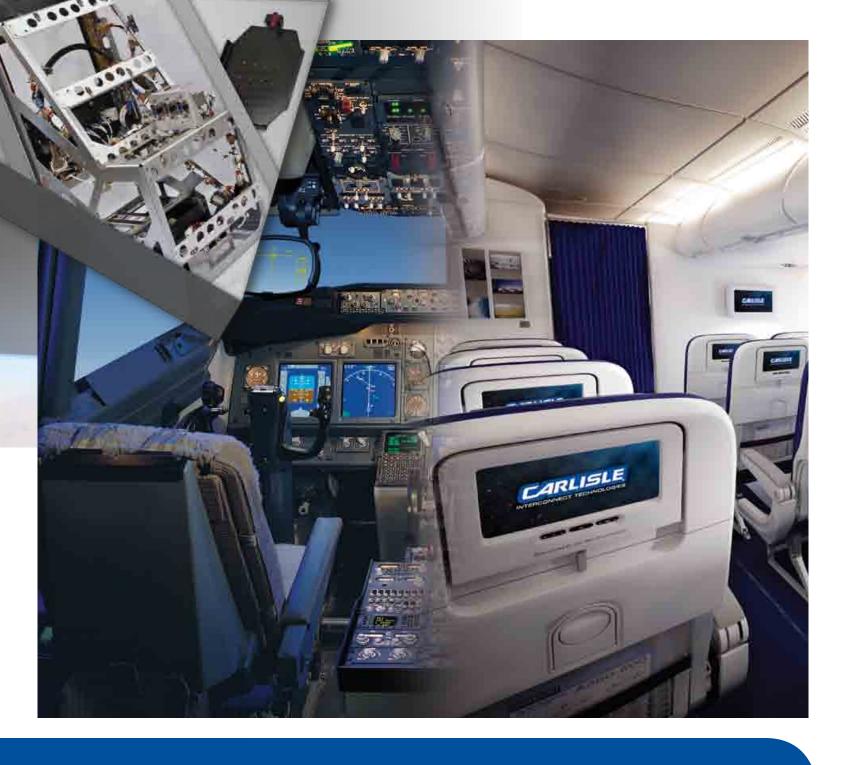
- » Filtered/TVS for maximum EMI protection » Low profile designs for space and weight savings
- **RF** Cable Assemblies
- » Full range of low loss coaxial cables from
- DC to 40GHz » Extensive connector product line (N, TNC, BNC, SMA, Push-On,
- ARINC 404 and 600)
- » Termination with standard tooling
- » Low PIM RF assemblies
- » Radiating leaky feeders

# LITEflight<sup>®</sup> Fiber Optic Assemblies

- » Lower loss, tighter bend radius and improved thermal stability
- » LITEflight<sup>®</sup> HD offers multichannel fiber in the smallest package

## **NETflight® High Speed Ethernet**

- » Flight proven design
- » High Speed transmission
- » Low smoke and flame generation



## FlightGear<sup>™</sup> Blind Mate Connectors

» Convert antennas into "Plug and Play" » Fast antenna removal and maintenance

#### **Avionics Assemblies**

» Ease of installation (smaller, lighter and more flexible) » Built to print

» In-house capability for design, mounting, certification for SATCOM antennas » Multiple approved STCs

#### Trays

- » Lightweight trays that are 20% lighter than standard trays » ARINC 404A and 600 trays
- » Custom trays
- » Military Style and Advanced Thumbscrew Hold-Downs

## **Engineering Services**

- » In-house design and testing capabilities
- » STC certification and management

### **Integrated Racks**

- » Fully integrated racks and monuments with true "Plug and Play"
- » Engineering support from design to installation