



Honeywell ASPIRE 400

Integration & Installation Components



We Are Your Full-Service STC Certification Partner

Partnering with us means more than getting a better way to create your product; it also means close support through the complex design, certification, and STC processes your launch may face. We're experts with years of experience and a deep library of certificates and design solutions that can help simplify and accelerate your product development.

Airworthiness Certification Services

When your path to market includes airworthiness certification with the FAA, EASA, or any of the dozens of regional authorities worldwide, count on us to provide the expertise and support to accelerate your certification process. We are an FAA STC design approval holder with a staff of:

- » Certification Experts
- » In-House Federal Aviation Administration Designated:
 - Engineering Representatives (FAA DERs)
 - Airworthiness Representatives (FAA DARs)
 - Manufacturing Inspection Representatives (FAA DMIRs)

Member of



Independent
AIRCRAFT MODIFIER ALLIANCE

Connectivity Certification Experts

- » Decades of experience designing and installing connectivity systems on aircraft
- » Thousands of SATCOM installations manufactured by CarlisleIT are flying today
- » Thousands of ATG installations manufactured by CarlisleIT are flying today
- » We hold hundreds of STCs with the FAA and dozens of other airworthiness authorities globally
- » FAA 8130-3 PMA facility
- » Global engineering support network including on-site liaison for first-of-type installations

FAA PMA Production

We have quality systems audited by the FAA specifically for the production of retrofit aircraft parts. We can also manufacture PMA-approved parts under contract with the issuance of a PMA assistance letter from an STC holder. This allows us to apply to the local FAA MISO for PMA against the specific component(s) and support high-volume manufacturing and fleet-wide retrofit programs efficiently.



Integration & Installation Components

ECS Avionics RF Assemblies

We understand how critical it is for aircraft manufacturers and operators to control costs in today's highly competitive market. Lightweight, low loss, and high performance are the keys to reducing operational expenses. That is why we continue to design and manufacture standard RF cables/cable assemblies. All of our cables and assemblies have design features that maximize system integrity and minimize the cost of ownership.

Key Features

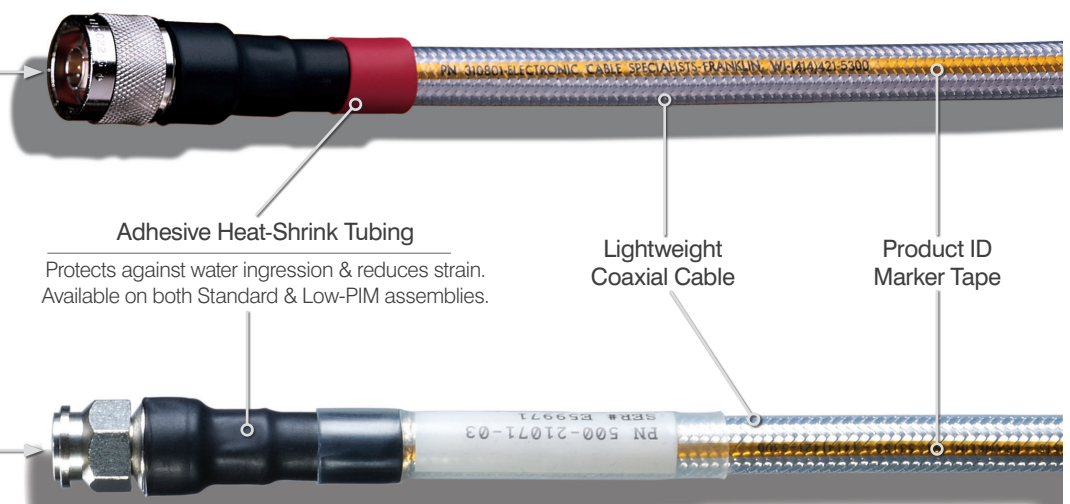
- » Up to 75% lighter than MIL-C-17 standard cables
- » Bend radii ranges between 0.75" – 2"
- » -55 °C – 200 °C temperature range
- » Multi-layered shielding provides superior protection against EMI/RFI
- » Minimal insertion loss
- » Meets or exceeds FAR Part 25 Burn/Smoke requirements
- » Product ID marker tape with identification every 3" – 4"
- » Low PIM assemblies made with non-ferromagnetic properties to reduce multi-frequency inference

Standard RF Cable Assemblies

CarlisleIT standard heavy-duty connectors are made from corrosion-resistant materials and seal out moisture.

Low-PIM RF Cable Assemblies

CarlisleIT Low-PIM connectors are made from non-ferromagnetic materials. They are corrosion-resistant and seal out moisture.



Adhesive Heat-Shrink Tubing
Protects against water ingress & reduces strain.
Available on both Standard & Low-PIM assemblies.

Lightweight Coaxial Cable

Product ID Marker Tape

Standard RF & Low-PIM cable assemblies offer low-loss & low-VSWR performance.

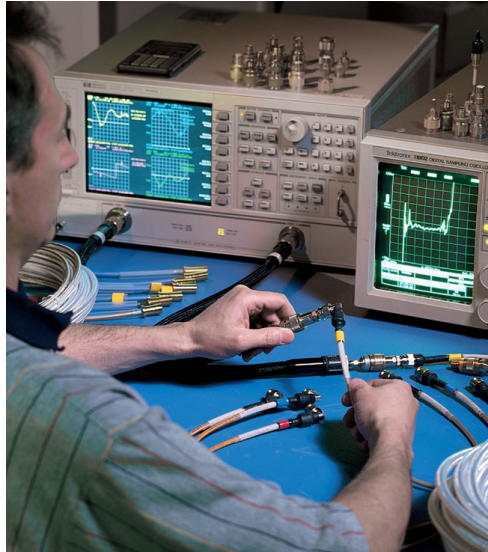
Quality Assurance



Heat-Shrink Wrapping



Termination



Test & Measurement

Each Avionics RF Cable Assembly is tested on our network analyzers to maintain high quality and ensure reliability. Insertion loss, phase matching, time delay, and VSWR are measured to verify performance and to meet your exact assembly requirements.

RF assembly electrical profiles are documented and a certificate of compliance is included with each shipset. Profiles are archived in our database to ensure repeatability. Individual phase-matched cables can be re-manufactured rather than replacing an entire shipset.

ARINC Trays



Our 2 MCU tray (P/N 200-553035-101) is designed and qualified per HPA & SDU specifications.



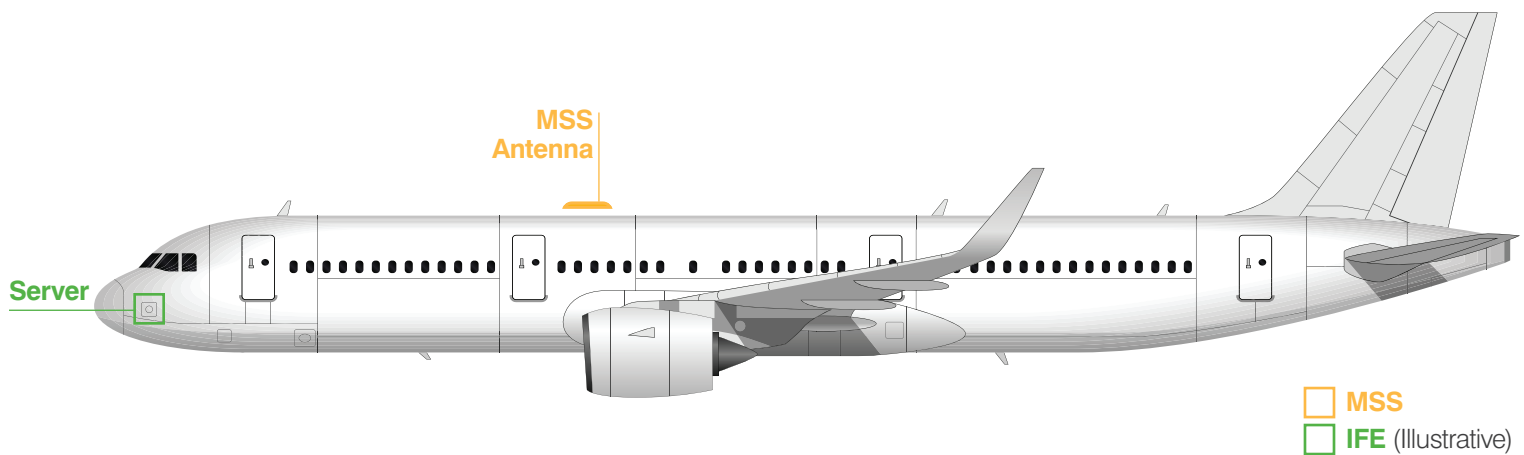
Our dual-tray solution (P/N 200-106500-102) houses both HPA & SDU LRUs and utilizes a single fan to cool the LRUs, minimizing installation time.

Complete Turnkey Packages



We have complete turnkey packages for installing the ASPIRE 400 system onto aircraft of any size. As a leading systems integrator, we know how to tailor installation designs and kits for flexibility and configurability. This allows for the support of multiple configurations, certification paths, and aircraft models with minimal additional engineering.

Kits can be ordered a la carte or turn key from our FAA PMA facility and delivered ready-to-fly.



Antenna Mounting Structures

The ASPIRE 400 system requires both internal and external modifications to the aircraft. As an L-band SATCOM system, the antenna is located on top of the fuselage. To securely mount the flat antenna to the curved shape of the aircraft, specialized structures must be used. We have the expertise to design and manufacture these specialized structures for a perfect fit and reliable long-term service. Cutting holes in a pressurized fuselage is nothing to be taken lightly. To ensure a robust, reliable installation, we have two FAA damage tolerance experts on staff to help our engineering teams optimize designs for the longest possible fatigue life. This allows us to deliver tailor-made kits and instructions for continued airworthiness, which come with maintenance intervals aligned with existing maintenance schedules.

Global Manufacturing. **Local Support.**

Wherever you are, so are we. With manufacturing centers around the globe, our highly qualified team is up to any challenge. Our extensive worldwide manufacturing capabilities, coupled with end-to-end local project management and engineering support, allow us to design, build, test, and certify your product in-house, saving you the time and hassle of managing multiple vendors.



FAA PMA MANUFACTURING

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Franklin, WI 53132
United States

FACILITIES CERTIFICATIONS

- » AS9100
- » ISO 9001
- » ISO 13485
- » ISO 14001
- » FDA
- » ITAR registration
- » MIL-SPEC/SAE
- » RoHS compliance
- » UL



See our full line of products at:
CarlisleIT.com/products/

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