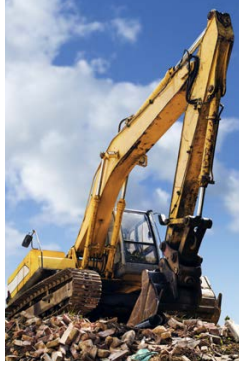
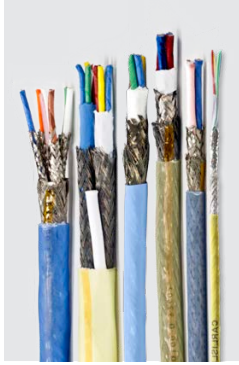
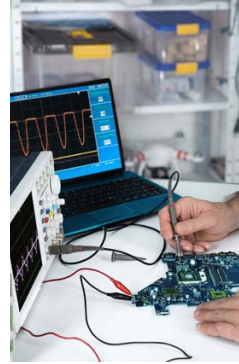
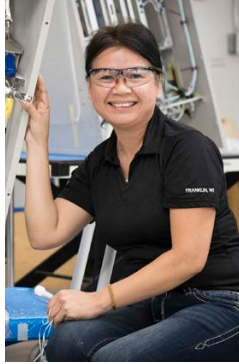


PRODUCTS, SERVICES, AND CAPABILITIES



We're Your One Connection to Thousands of Interconnect Solutions

As one of the world's leading designers and manufacturers of high-performance wire and cable — including optical fiber — we are also experts in the design and production of harsh-environment interconnect products such as contacts, connectors, cable assemblies, installation kits, ARINC trays, racks, and shelf assemblies. In addition to manufacturing interconnect products for multiple markets, we have extensive engineering and certification capabilities that range from design to fully installed FAA-certified projects with DER, DAR, and DMIR personnel on staff.

By nature of our vertical integration, we can provide interconnect solutions encompassing every facet of design and production, and thereby help our customers solve a variety of product needs, including unique cable configurations, custom high-frequency connectors, complete cable assemblies of any complexity, and specialized complex harnesses, racks, and structures.

We're ready to take on your next challenge.



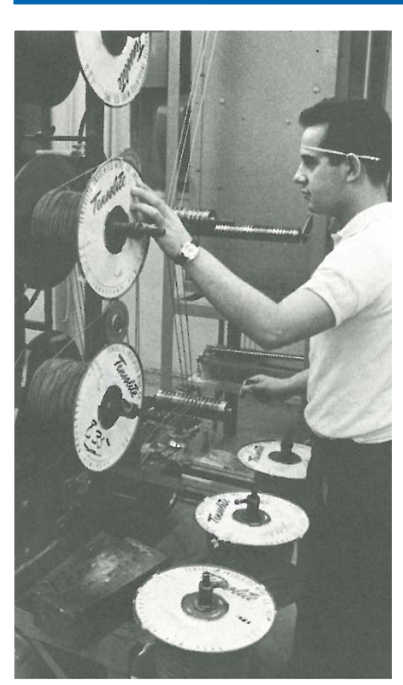
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WHO WE ARE

Roots

Our story goes back to 1940, when Henry Dudley Minich founded what was then known as Tensolite. It consisted of a team of six researchers in an old converted house in North Tarrytown, New York. They started out investigating the properties and commercial possibilities of various plastics and synthetic fibers and eventually began to build a reputation for producing the finest miniature insulated wire and cable in the industry. Tensolite was an early pioneer in the application of insulation to miniature wire and was one of the first to apply a unique material called PTFE to produce high-temperature wire and cable. In fact, the company's first insulated wire product was used to electrically heat the gloves and flight suits of World War II Air Force pilots.

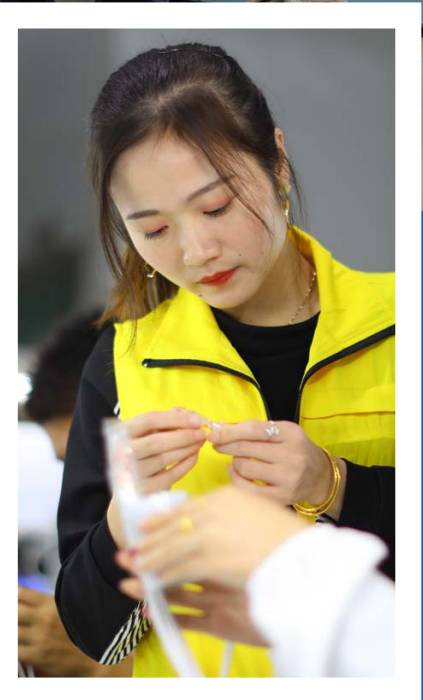
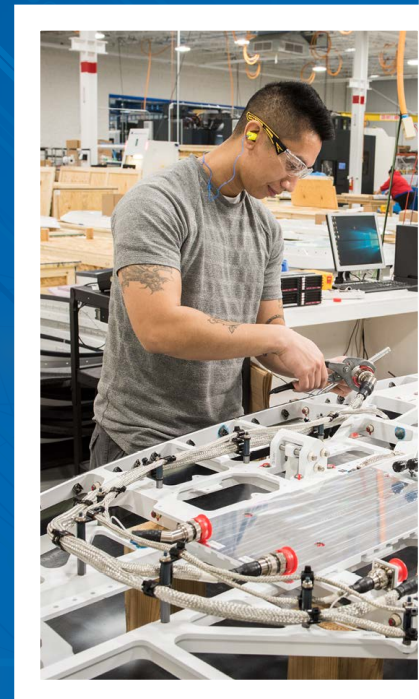


Growth

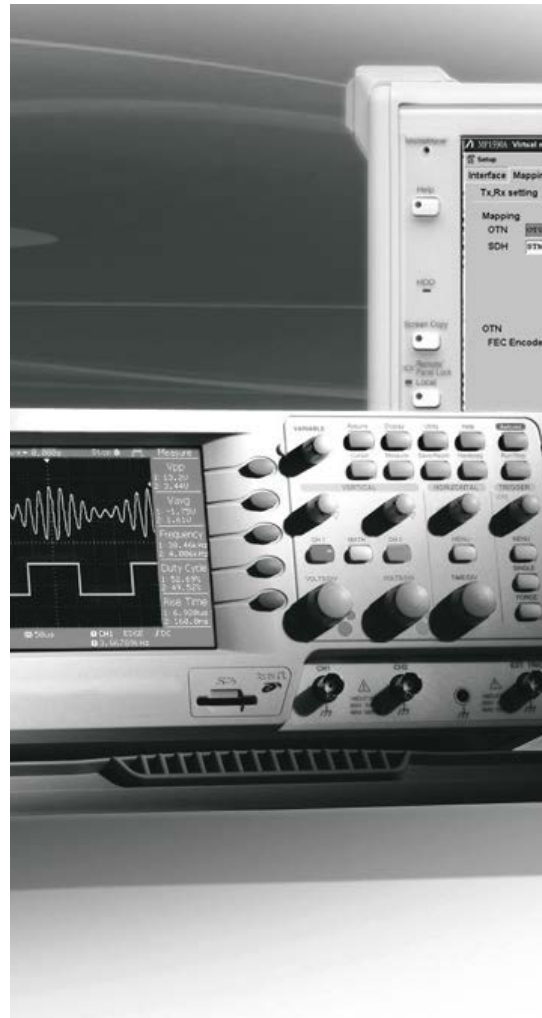
In 1959, Tensolite became part of Carlisle Companies, setting the stage for a legacy of innovation. By 1998, the need for comprehensive interconnect solutions became apparent, leading to the birth of Carlisle Interconnect Technologies (CIT). A journey of expansion and acquisition began as CIT strategically added cable assemblies, RF/microwave and fiber optic solutions, structures, SATCOM solutions, and custom engineering to its portfolio. This transformation solidified CIT as a trusted end-to-end partner across the aerospace, military, space, T&M, med tech, and industrial markets.

Today & Tomorrow

Now, as we begin our latest chapter as Amphenol CIT (Cable & Interconnect Technologies), it signifies far more than two titans joining forces. It's a promise of progress, a commitment to excellence, and a testament to the power of human ingenuity. It's a fusion of expertise and vision where boundaries dissolve and innovation thrives. It's Revolutionary Connectivity Reimagined.




The Markets We Proudly Serve




COMMERCIAL & MILITARY AEROSPACE

We can create custom hybrid solutions to meet your unique product design, engineering, and installation needs, regulatory requirements, supply chain and operational pressures, technology innovation, systems integration, lead time, and cost. And we can do it anywhere you fly.

- » Cabin Management
- » Avionics
- » Aerospace Connectivity
- » Aircraft Structures
- » IFEC
- » EFB
- » SATCOM
- » Advanced Air Mobility



TEST & MEASUREMENT

High-performance, low-loss solutions for your urgent lab and long-term design needs.

- » Probes & Accessories
- » Oscilloscopes
- » Spectrum Analyzers
- » Digital Multimeters
- » Logic Analyzers



INDUSTRIAL

From our harsh-environment designs for the most aggressive and ruggedized specifications to our ever-reliable RF interconnect systems, we are dedicated to creating solutions that help you focus on what you're building.


- » Laser/Industrial Automation
- » Heavy Equipment/Vehicles
- » Alternative Energy/Storage
- » Automotive
- » Rail Mass Transit
- » Oil & Gas Exploration
- » Sensors
- » Condition Monitoring



DEFENSE

From radars, missiles, satellites, and forward-looking infrared systems to electronic warfare and communication systems, we ensure the reliability of the parts that connect them. This gives our military the ability to operate with efficiency and confidence in any environment — so they can focus on the mission at hand.

- » Radars & Antennas
- » Missile Defense
- » UAV/UA
- » C4ISR
- » Military Aerospace



SPACE

NASA, JAXA, and ESA have trusted us for more than 50 years with some of the space industry's most innovative and groundbreaking devices, programs, and missions — including Voyager, Mars Rover, Europa, MAVEN, and the James Webb Space Telescope, to name a few.

- » Spacecraft & Launch Vehicles
- » Satellite Integration
- » Deep Space Exploration
- » RF Power Handling



MEDICAL

Amphenol CMT (Critical Medical Technologies) is an industry leader in the design and manufacture of high-performance solutions for the medical device market. With a global footprint, award-winning design and engineering experts, and extensive manufacturing capabilities, the company is uniquely able to design, build, test, and deliver solutions with unparalleled responsiveness and speed to market.

- » High-Speed Surgical Video
- » High-Performance Surgical Power
- » Single-Use Electrosurgical
- » Diagnostic Patient Monitoring
- » Medical Wire Harnesses
- » EN ISO 13485:2003 Certified



CABLE ASSEMBLIES

Connections Happen Everywhere

Whether your applications are deep in space, deep under the ocean, or anywhere in between, our precision-crafted cable assemblies and harnesses are ready to perform.

Streamlined, cost-effective, fully manufactured, and ready to install, our cables, connectors, and assemblies are vertically integrated to offer a complete solution to your design challenges. Our custom-designed and engineered solutions also maximize performance and durability.

Product Offerings:

- » ECS Brand Avionics RF Coaxial Assemblies
- » Data Bus, Power, and Video Assemblies
- » Fiber Optic Cable Assemblies
- » Harness Assemblies
- » Gen-Z High-Speed Cable Assemblies
- » High-Density Coaxial Assemblies
- » Power & Grounding Assemblies
- » RF/Microwave Assemblies
- » RF/Microwave Harness Products
- » Test & Measurement Products



ECS Brand Avionics RF Coaxial Assemblies

Each ECS brand avionics RF coaxial 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 remanufactured rather than replacing an entire shipset.



Available Types:

- Low PIM
- TCAS Cable Sets
- Customized Sets

Key Features:

- Up to 75% lighter than MIL-C-17 standard cables
- Bend radii ranges from 0.75" to 2"
- -55 °C to 200 °C temperature range
- Multilayered shielding for 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" to 4"
- Low PIM assemblies made with non-ferromagnetic properties to reduce multifrequency interference

Supported Frequencies:

- HF (2 – 30 MHz)
- Marker Beacon (75 MHz)
- VOR/LOC (108 – 118 MHz)
- VHF (118 – 156 MHz)
- Glide Slope (329 – 335 MHz)
- DME (960 – 1220 MHz)
- GPS (1575 MHz)
- SATCOM (1559 – 1660 MHz)
- XM/Wi-Fi (2200 – 2400 MHz)
- MLS (5030 – 5091 MHz)
- IFE - KU Band (10.7 – 12.75 GHz)

ECS brand avionics RF connectors listed on page 22.

Data Bus, Power, and Video Assemblies

HDMI, USB, DVI, Display Port, and Coaxial Digital Video Assemblies



Designed to provide flexible cable solutions to support a wide variety of aircraft cabin management systems.

- HDMI, DVI, D-sub, Quad, and Octax® terminations
- Optimum shielding to minimize interference issues
- Developed for minimal insertion loss and superior EMI protection
- Meet or exceed FAR burn/smoke requirements
- Fully terminated and tested
- Custom designs available

HDMI 2.0 Locking Cable Assemblies



Fully qualified to support 4K ultra-high-definition displays at 60 Hz, these cable assemblies are made to order in customer-specified lengths.

- HDMI 2.0-compliant
- Available with single-end terminations
- Made to order in customer-specified lengths
- Available with or without the anti-vibration locking feature

Octax® 10 Gb High-Speed Data Assemblies



Octax assemblies use standard M39029 contacts and connectors that are 40% lighter than competitor products.

- Cables house four Ethernet pairs in separate low-profile cells within a small envelope housing
- Optimized for use with our Gigabit series cables
- Available in plug and socket
- Can be utilized in panel-mount applications

Octax connectors listed on page 25.

Fiber Optic Cable Assemblies

Single-mode, Multimode, and Multifiber Assemblies and Breakouts

We offer a full range of fiber optic cable assemblies, including:

- Fiber jumpers
- Connectorized assemblies
- Highly complex breakout assemblies
- Long-length assemblies
- Fiber harnessing on racks, trays, or other structures

We terminate all common connector and termini designs and offer all termination types, including single-mode, multimode, and plastic optical fiber in single and multiple-fiber configurations.

Assembly design and value-add engineering are available, as well as environmental, mechanical, and optical qualification testing, and certification as needed.



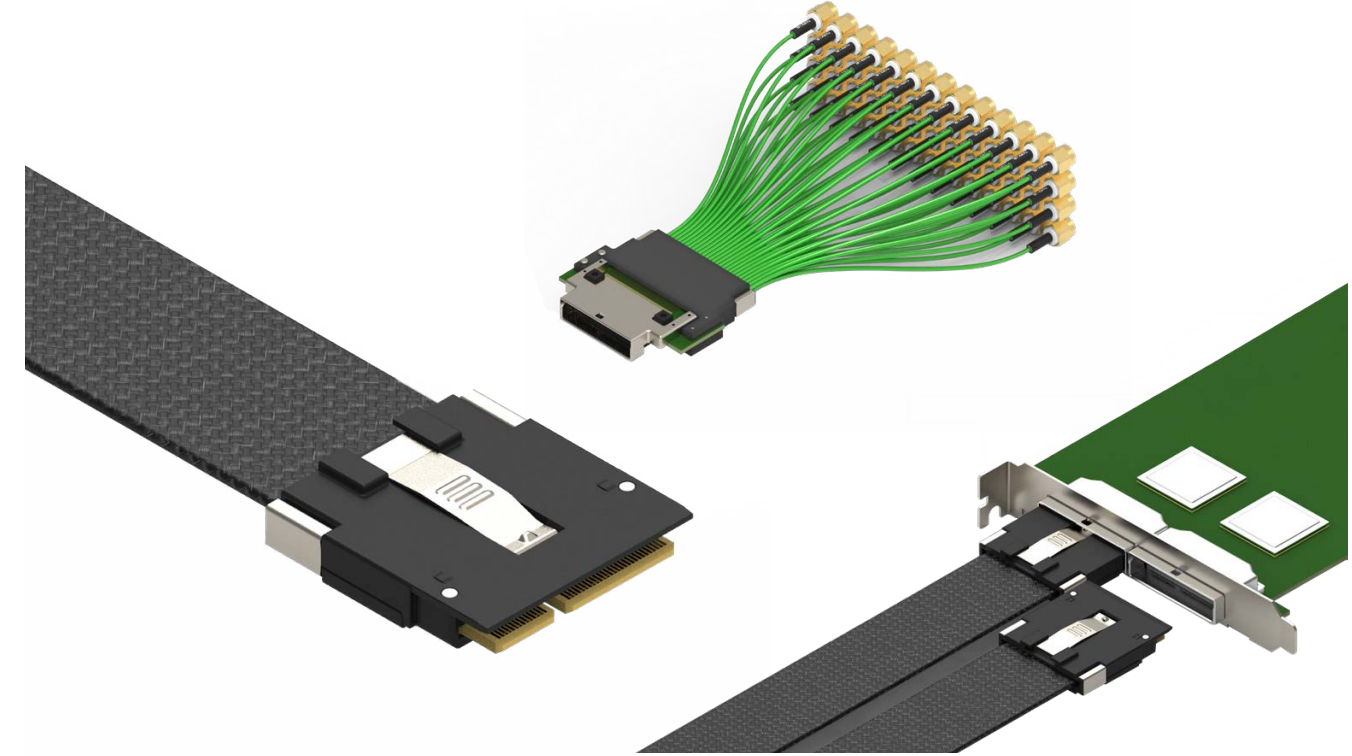
Harness Assemblies

Straightforward and Highly Complex Multibranch Configurations

No matter how complex and stringent your application needs are, our engineers work to keep overall cable harness design simple and effective. We work with you to custom-design, manufacture, test, and certify cable harnesses from the small, simple, and straightforward to highly complex, multibranch configurations that can include a combination of features like overbraided sections, screened branches, overmolded connector boots, or complex hybrid designs utilizing a mix of signal cables, power cables, RF cables, and even fiber optics. We have design and engineering teams at our state-of-the-art manufacturing facilities worldwide and are ready to work with you on complete, end-to-end managed solutions for your application needs.

Gen-Z High-Speed Cable Assemblies

Supporting PCIe Gen 5 Speeds and SaaS, SATA, SATAe, and NVMe Protocol Signals



Gen-Z data access architecture and technology increase the data rates and bandwidths of the links between processors and peripheral components, including memory devices up to 400 GT/s. As a result, there is less latency in data access on/between applications.

Key Features:

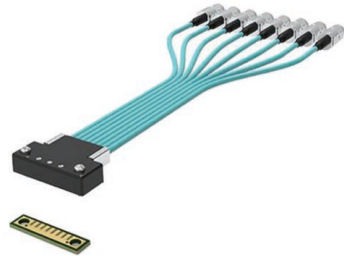
- Card-edge, high-density, discrete-pin connector that supports vertical, right-angle, and cabled installations
- Provides high-performance signal integrity capable of supporting line rates up to 112 GT/s PAM4 without Forward Error Correction (FEC)
- Right-angle and edge-mount type board-side connectors available
- Meet SFF-TA-1002 pinout specifications
- Maximum number of high-speed differential channels
- No sideband signals (10 additional pairs of signals compared to standard pinout solution)
- Standard and custom solutions available

Available in:

- 1C
- 2C
- 4C
- -1C
- -2C
- -4C
- -4C+

High-Density Coaxial Assemblies

CoreHC™ Ganged Interconnect System



Multichannel, test-point system targeted for high-density boards where space is limited. It offers reduced trace lengths and higher signal integrity than boards using traditional SMA and precision RF-type connectors. On average, there is 4x higher available bandwidth for signals in the same real estate as SMA connectors.

- DC – 65 GHz
- Vertical, edge-mount, and right-angle configurations available
- No soldering required

CoreGD™ Ganged Interconnect System



A high-performance, multiport, ganged SSMP interconnect system that offers excellent signal integrity for complex layouts and crowded PCBs used in more rugged applications. It is a low-cost solution optimized for applications with demanding bandwidth up to 65 GHz, pushing the envelope up to 100 GHz.

- SSMP-type board-side interface
- 2.92 mm and 1.85 mm cable-side connectors (DC – 65 GHz)
- Vertical, edge-mount, and board-to-board options

HDSI® High-Density Shielded Interconnects

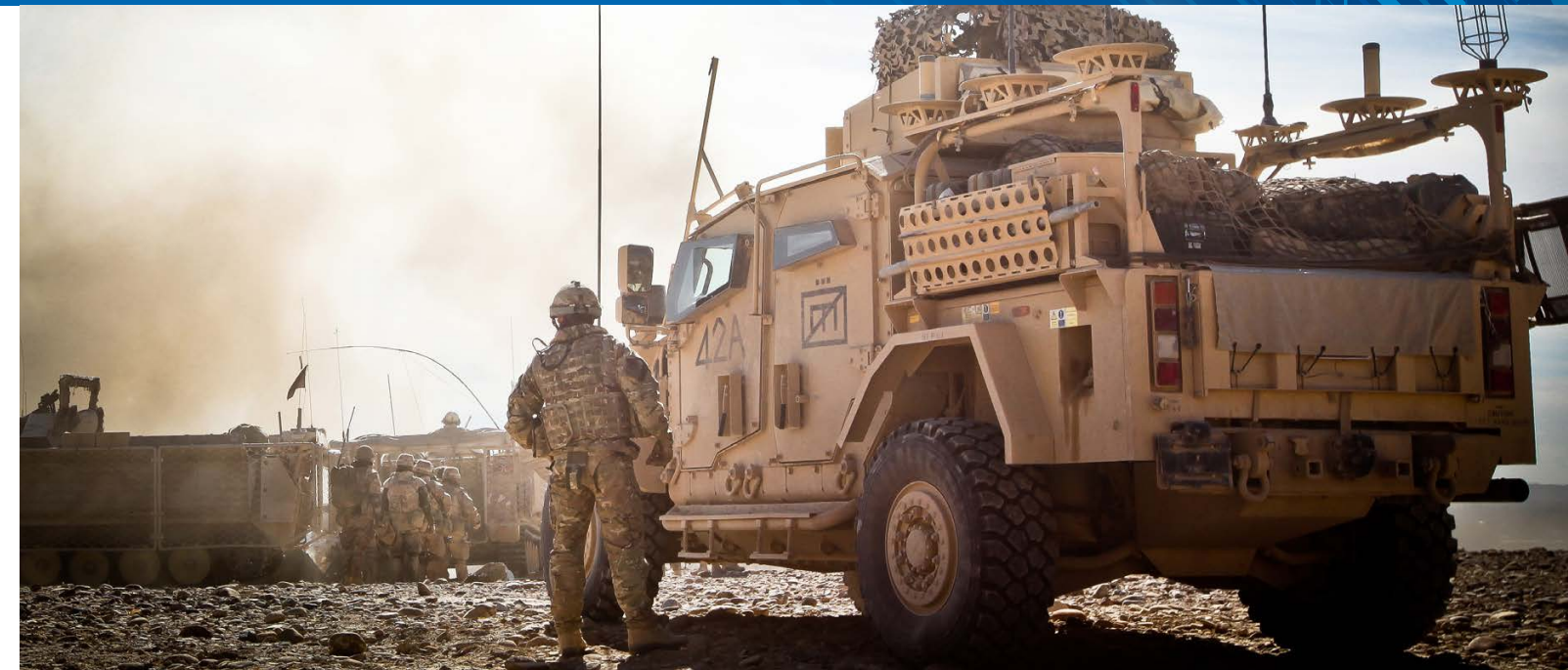


Feature ribbonized coaxial cable, matched impedance PCBs, and common connectors to meet today's demand for smaller, faster, and lighter interconnect solutions. Available in single-ended and differential configurations.

Power & Grounding Assemblies

Provide a convenient and fast bolt-on solution to power and grounding cabling needs.

- Eliminates the need to purchase and maintain expensive terminal lug installation tooling and the need to train installers on crimping procedures
- Facilitates design to exacting standards, predetermined cable dressing, and assurance of proper fit
- Can be combined with other Amphenol CIT products into kits that facilitate assembly on the factory floor



RF/Microwave Assemblies



M-FLEX®

Designed to accept semi-rigid cable connectors. Unlike other single- or double-braided “RG”-type flexible cables, M-FLEX cables are true MIL-DTL-17-compliant microwave cables.

- DC – 40 GHz
- RF shielding > 90 dB
- Helical shield for improved loss and phase stability
- Available in various lengths and connector options
- Designed for standard, readily available solder-on connectors



Semi-Flex®

With an outer conductor comprising a tin-filled copper wire braid, a copper/poly foil inner layer, and a semi-rigid-style dielectric and center conductor, our Semi-Flex cables provide enhanced shielding and performance that exceeds traditional conformable cables.

- Conformable
- DC – 26.5 GHz
- Hand-formable without the need for bending tools
- Superior flexibility and bending radius compared to semi-rigid



Semi-Rigid

Manufactured by our trained technicians to meet J-STD-001E cable assembly standards and MIL-C-17 specifications, all assemblies are inspected per IPC-A-610 and IPC-A-620 to ensure that each one performs as specified.

- Tight physical tolerances, minimal VSWR, and high phase stability
- Phase-matched assemblies available upon request
- Custom-designed per drawings
- Vast selection of cable and connector options
- Computerized forming equipment ensures repeatability and accuracy
- MIL and commercial-grade connectors available

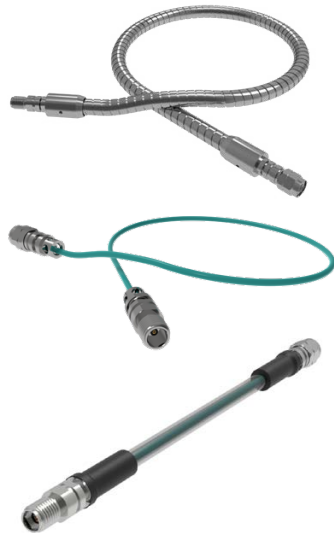
RF/Microwave Assemblies Cont'd



WorkHorse® Test Assemblies

Ruggedized and specifically designed for use in high-volume production environments, where strenuous flexing and numerous mating cycles quickly destroy typical connectors. Ideal replacements for OEM test port cables due to their long life and repeatable performance.

- DC – 26.5 GHz
- Utilize Amphenol CIT's proven "504" triple-shielded cable
- Available with crushproof stainless steel interlocking armor
- Low loss and phase stable for testing repeatability
- Triple shielded for reduced leakage
- RoHS-compliant



High-Performance, Low-Loss RF Coaxial Jumpers

Multiple configurations with 1.85 mm, 2.40 mm, 2.92 mm, and 3.50 mm connector types on .079" (outer shield diameter) coaxial cable

- DC – 65 GHz
- Standard RF Jumpers phase matched to +/- 2 ps in pair
- Tighter phase matching to +/- 1 ps and +/- 0.5 ps is available upon request
- Short, medium, and long heat shrink options

Available in three configurations:

- Standard FEP jacket
- Stainless steel armor
- Clear PVC armor



UTIFLEX® Flexible Microwave Assemblies

Constructed using a low- or ultra-low-density PTFE dielectric coupled with fully shielded outer conductors and a unique connector attachment that withstands mechanical and thermal stresses far better than standard connectors. The result: excellent loss characteristics, outstanding phase stability, and superb flexibility compared to standard flexible cables — all without sacrificing mechanical integrity.

- Low SWR (1.25:1 to 40 GHz typical)
- Excellent shielding effectiveness
- Precision phase matching
- Class 10,000 clean-room assembly processes
- Low-outgassing materials
- Radiation-resistant up to 100 Mrads
- Real-time X-ray capability

Available Variants: Miniature, Low-Loss, Ultra-Low-Loss, MKR Ruggedized, External Armor, Ultra-Light, TVAC



Space-Grade Microwave Assemblies

Our extensive track record in providing microwave transmission line products means you can partner with us to deliver proven solutions for your most demanding space flight technical challenges.

- Operating frequency through:
 - » V band
 - » Power handling (CW, multipactor, ionization)
 - » PIM
 - » Radiation
 - » TVAC
 - » Cryogenic
- Qualified to many program-specific requirements
- Can be supplied against NASA EEE INST 0002 and ESCC 3408
- Available configurations:
 - » UTIFLEX
 - » Semi-Rigid
 - » Multiport harness
- Connector designs are tailored to the cable for an optimized cable assembly



UTIPHASE™ Phase-Linear Microwave Assemblies

Combines every traditional feature of UTIFLEX® with a thermally phase-stable proprietary dielectric that eliminates the PTFE "knee." Also leverages the same cable assembly terminations and proven connector families that have made UTIFLEX famous, thus saving money, validation schedules, and lead times.

- Linear thermal phase performance
- Naturally ruggedized with sturdy concentric core
- Vertically integrated
- Typical velocity of propagation 80%
- Universally configurable with standard connectors and armor
- Tested to the Group A, Group B, and Group C qualification test requirements of MIL-DTL-17

RF/Microwave Harness Products



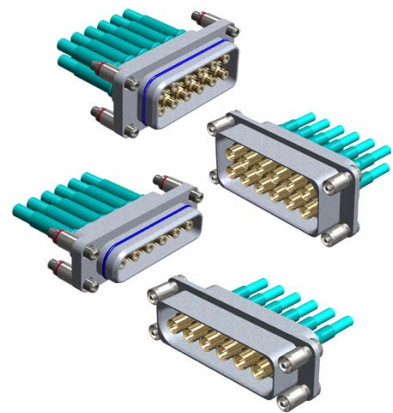
Custom Engineered Harnesses

Our engineering teams will aid in custom-design, manufacture, test, and certification of cable harnesses from the small, simple, and straightforward to highly complex, multibranch configurations that can include a combination of features like:

- Overbraided sections
- Screened branches
- Overmolded connector boots
- Complex hybrid designs utilizing a mix of signal, power cables, RF cables, and even fiber optics

We can offer any standard connector housings, along with custom-designed housings to meet your specific needs.

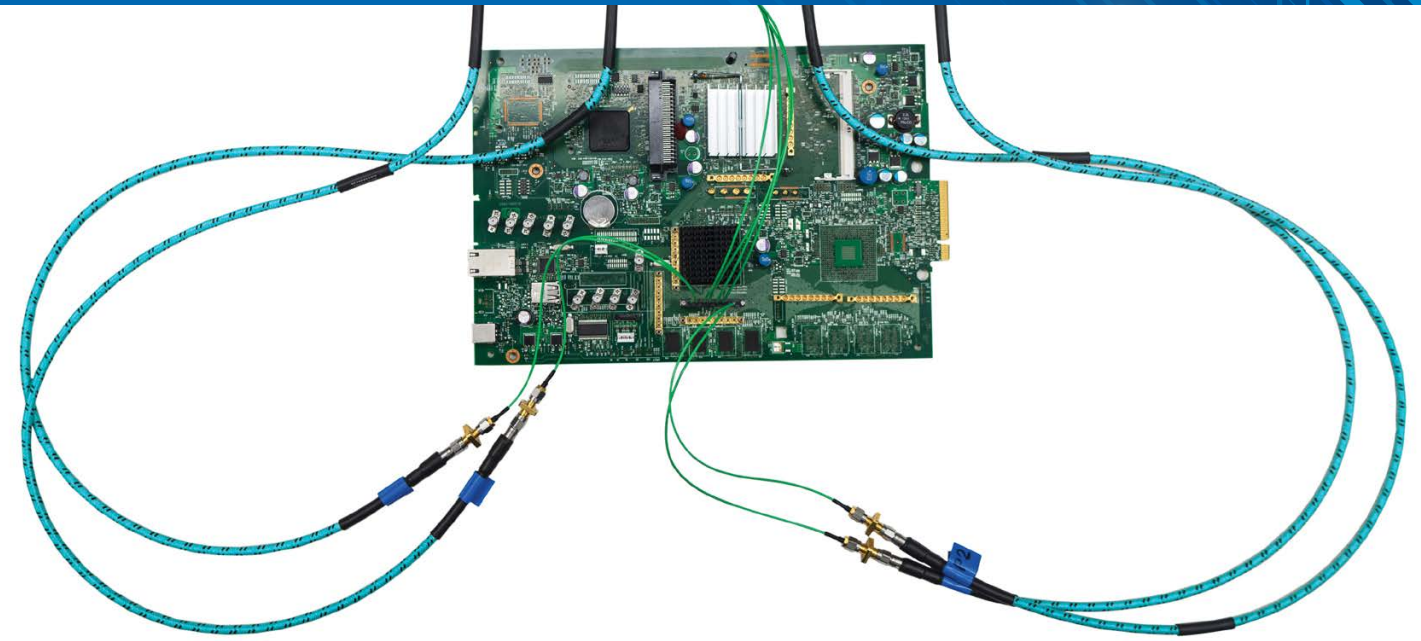
Multipoint Quick-Connect Harness



Our Multipoint Quick-Connect Harness with push-on type RF interface is designed to reduce time and cost for the integrator without impacting reliability or performance. And like heritage single-point threaded interfaces such as SMA and SMK, the Multipoint Quick-Connect Harness supports the same critical operating frequencies, return loss, and RF shielding specifications.

We also offer:

- Push-on male and female connector interfaces per MIL-STD-348
- Modular and configurable housings based on the preferred push-on type interface
- Controlled 1/4-turn quick connect with visual lock/unlock indicator
- Field-replaceable cable assemblies with extraction tool
- Full range of UTiFLEX®/UTiPHASE™ cable diameters, allowing for varying insertion loss performance
- Heat-shrink reinforcement with integration indicators and build-to-print labeling
- Design flexibility to support 2x – 12x transmission paths



Test & Measurement Products



Board-to-Board Interposer Solutions

We offer a wide portfolio of low-loss, high-frequency Precision RF Connectors in various configurations for design flexibility and multiple applications.

- 50 Ω impedance
- DC – 110 GHz
- 1.00 mm, 1.35 mm, 1.85 mm, 2.4 mm, 2.92 mm, and 3.5 mm
- We will provide your board layout and optimized footprint based on your board stack-up
- Solder-mount and solderless/field-replaceable solutions



SecureThread™

High-performance interconnect system using a blind-mateable push-on interface with a threaded coupling nut that prevents the cable assembly from moving once the connection is made.

- DC – 65 GHz
- Solder and solderless options
- Surface-mount and field-replaceable types
- Pre-tinned SMT
- CoreHC – Precision Connectors or SSMP – Precision Connector interfaces



High-Frequency Flex Circuit Probes & Passive Probes

Engineered to deliver consistent, repeatable, and dependable results and an industry-leading combination of high bandwidth and high voltage in a low-cost, rugged, general-purpose probing solution.

- 500 MHz bandwidth and 1,000 V CAT III; 600 V CAT IV
- Small head and body for enhanced visibility and access to small geometry circuit elements
- UL and IEC certified (exceeds UL61010-31, IEC61010-31)
- 1X, 10X, and 100X kits available
- Off-the-shelf and customized solutions



CONNECTORS

The Smallest Things Make All the Difference

Our high-performance connectors and adapters are designed and engineered to be the highest quality and most reliable in the market.

Our filters and connectors meet or exceed EMI industry standards, and we are unmatched in speed of delivery, manufacturing flexibility, and quality control, providing consistently reliable, superior performance for your applications.

Product Offerings:

- » ECS Brand Avionics RF Connectors
- » Backshells
- » Data Bus Connectors
- » Digital Connectors
- » EMI Protection & TVS Connectors
- » RF/Microwave Connectors
- » Specialty Connectors





ECS Brand Avionics RF Connectors

Designed and fabricated to meet industry specifications, including MIL-C-39012, ARINC 600, and ARINC 404, our ECS brand avionics RF connectors seal out moisture and hydraulic fluids and are durable enough to withstand the punishment and harsh operating conditions of avionics installations, including high-vibration and extreme temperature variations.



ARINC



BNC



HN



SMA



Specialty FlightGear™
Blind Mate



TNC



Type C



Type N

Key Features:

- **ARINC-Compatible Coax Contacts:** Come as complete kits ready to be installed in standard size 1 or size 5 cavities.
- **BNC Connectors:** Often used for aircraft ground support and test equipment. Straight, right-angle, bulkhead, and extended connectors are available for the complete line of optimized avionics RF cable. Available in bulk or as part of full tested assemblies.
- **Specialty Connectors and Adapters:** Include blind mate antenna connectors, tee and bulkhead adapters, and other parts to solve unique installation challenges using a variety of standard RF interface types
- **HN Connectors:** Used for high-power applications and are matched to cables with comparable power-handling capabilities. Available in right-angle configurations and engineered for low-pressure aircraft environments, this connector series is the ideal choice for airborne radio.
- **SMA Connectors:** Support applications up to 18 GHz. Terminations of SMA connectors onto ECS low-weight, low-loss, avionics coaxial cable allows optimum links between SATCOM antennas and diplexer, block upconverter, or amplifier.
- **TNC Connectors:** The most common connector for Avionics RF applications and comes in the widest range of configurations, including extended versions to reach difficult installations. Special options also exist with self-locking features, keyed configurations, and low-PIM materials.
- **Type C Connectors:** Often found on aircraft transponder systems and used in mid-frequency applications. Available in both straight and right-angle options.
- **Type N Connectors:** A more robust connector option used for a variety of aircraft antenna systems with performance up to 18 GHz. Straight and right-angle configurations for all avionics coaxial cables are available to suit your unique application.

ECS brand avionics RF coaxial assemblies listed on Page 10.

Backshells



Compact D-Sub Backshells

Designed to minimize weight and maximize internal space and EMI shielding, our D-Sub Backshells are an ideal solution for high-end commercial and aviation cables where weight and/or EMI shielding are critical.

- Special mounting features that maximize cable strain relief strength, preventing damage to wires and electrical contacts
- Five standard sizes: 1/E through 5/D
- Varying cable exit diameters ranging from 7 to 16 mm
- Front panel-mount capability
- 60% lighter than comparable industry-standard products
- Tapped body style
- Accommodates conventional and moisture-proof MIL-STD-24308 D-Sub connectors

Available Exit Angles:

- 45°
- 90°
- Straight



Composite Backshells

Up to 30% weight savings compared to aluminum configurations.

- 45° Exit Angle
- 90° Exit Angle
- Straight Exit Angle
- 10 mm and 13 mm cable exit diameters



EN4165/BACC65 Backshells

Low-profile and lightweight backshells, compatible with EN4165/BACC65 connectors with very effective EMI shielding.

- 45° Exit Angle
- 90° Exit Angle
- Straight Exit Angle
- 10 mm and 13 mm cable exit diameters



Universal Spring Latches

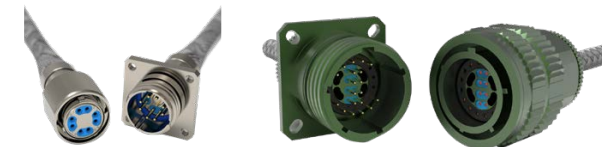
Compatible with MIL-STD-24308 D-Sub connectors and Compact D-Sub backshells. Provides enhanced locking stability for in-panel and inline applications compared to industry-standard products.

Data Bus Connectors



Terminated Assembly with Size 25 38999 Connector

Terminated Assemblies with a Pair of Size 19 38999 Connectors



Octax-Solo Plug and Flange-Mount Receptacle

Octax Hybrid



Octax LT

Octax to Quadrax Adapter Assembly

Octax®

High-speed Ethernet interconnect solution delivering data transfer speeds of 10 Gbps and higher to the commercial and military aerospace market. Optimized for use with our Gigabit series cable and utilizes MIL-DTL-38999 series III size 9 to 25 shells and standard AS39029 22D crimp contacts.

Key Features:

- Lightweight and compact allowing for greater density
- No special tooling required
- Field repairable
- Available in nickel or cadmium plating
- Environmentally sealed
- EMI shielded

Available Types:

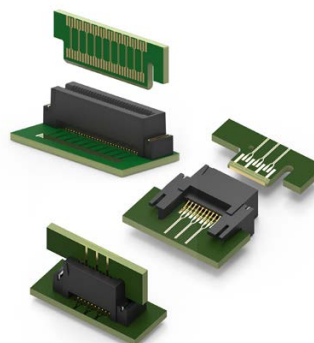
- Solo
- LT
- Hybrid
- 38999 (Sizes 11, 19, 25)
- Flange-mount receptacle
- Plug
- Straight PCB (flange mount)
- ARINC 600
- EN4165
- Single Contact

Adapter:

Bridges the technology between Quadrax and Octax for systems that use Quadrax at the board level.

Octax assemblies listed on page 11.

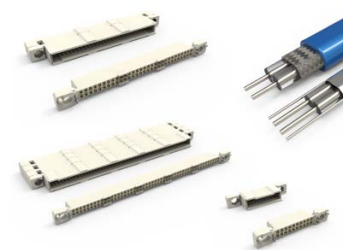
Digital Connectors



Card Edge Connector System Supporting 25 Gbps Data Rate

Smooth mating surface area reduces the wear and tear of contacts and increases the durability and life cycle of the contact system. This connector system also lowers insertion and withdrawal forces, while supporting data rates up to 32 Gbps with excellent signal integrity. Suitable for multiple applications (like cable to board and board to board) with various PCB thickness profiles.

- PCB thicknesses of 0.062 in and 0.093 in for complex PCB designs
- Surface-mount and edge-mount options for pick-and-place
- 0.8 mm contact pitch for high density
- 500 mate/de-mate cycles for high reliability



AltaVel™ Open Pin Field Interconnect System Supporting 25 Gbps Data Rate

Optimized to provide scalability and reliability in dense, high-mate/de-mate cycle applications with data rates greater than 25 Gbps.

Available Configurations:

- Board to Board
- Board to Cable
- Cable to Cable
- Cable to Panel
- Single-ended (50 and 75 Ω) and differential (85 and 100 Ω) designs

Available Styles:

- Vertical to Vertical
- Right Angle to Vertical
- Right Angle to Right Angle
- Surface Mount
- Paste in Hole
- Plated through Hole



EMI Protection & TVS Connectors



Circular Filtered Connectors

These low-pass filter connectors include the most popular circuits — C, CL/LC, Pi, and T — and are constructed using planar filter technology for maximum strength and high performance from low to high frequencies.

- MIL-DTL-26482
- MIL-DTL-38999 I – IV

D-Sub & Micro-D Filter Connectors



Meet the interface requirements of M24308 and M83513, while providing filtering in accordance with the customer's strict requirements.

EPX Filter Connectors



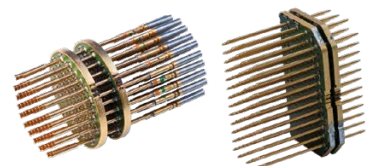
May be stacked for space savings and can be used in cable-to-cable and rack-and-panel applications. Modules are available in all standard arrangements with signal and power contacts. Compared to circular connectors, the EPX offers a slim shell design with high density.

Rectangular Filter Connectors



Our ARINC filter connectors offer the complete line of standard layouts. Our modular construction uses standard shells and filtered backpacks.

TVS Connectors



Our family of TVS connectors can be incorporated into any of our circular or rectangular product configurations and can include the filtering if required. Our unique packaging "diode-in-board" can handle power up to 3k watts while saving space and weight.

RF/Microwave Connectors



Microwave Adapters

Full-gender family of precision RF adapters in different connector options to cover applications ranging from DC to 65 GHz. They come standard in a passivated stainless steel body with a captivated beryllium copper center conductor to ensure mating repeatability. Gold-plated housing or non-captivated center conductor also available. All of our adapters are 100% tested to ensure optimum performance over their respective frequency range and offer low VSWR and insertion loss.

- Between-Series Straight Adapters
- Right-Angle and Straight In-Series Adapters



Phase Adjusters

Block Style

- Up to 18 GHz
- Low insertion loss
- Smooth, continuous phase adjustment
- No external length change
- Rugged, compact housing
- MIL-STD-348-compliant

Phase-Adjustable Adapters

- Up to 50 GHz
- Low insertion loss
- Smooth continuous phase adjustment
- Positive resettable locking mechanism
- Multiple interface options available
- MIL-STD-348-compliant



Phase-Adjustable Cable Connectors

- Up to 26 GHz
- OD cable configurations:
 - » 0.047, 0.085, and 0.141
- Smooth, continuous phase adjustment
- Positive resettable locking mechanism
- Multiple interface options available
- MIL-STD-348-compliant



Swept/Radius Right-Angle Connectors

Utilizes a one-piece curved center contact with a radius tube housing. The proprietary manufacturing process ensures a true coax geometry from end to end. The radius design configuration allows for better performance at higher operating frequencies in a tighter package and greatly reduces shock or vibration failures.

- Multiple interface options available
- 50 Ω impedance
- Low VSWR and insertion loss
- Tested per MIL-STD-202



Safe-D-LOCK®

A reliable alternative to conventional self-locking connectors, adhesive compounds or safety wire. The unique design locks to the D-FLAT on the mating connector, providing a true lock that cannot be compromised when the cable is rotated.

- Eliminates costly adhesive or safety wires
- Lock cannot be compromised by cable rotation
- 50% weight savings over conventional self-locking connectors
- Modular design ports easily and economically to all SMA, 2.92 mm, and 3.5 mm connector families

RF/Microwave Connectors Cont'd



Push-On Connectors

- SMPS: Satisfy demand for increased package density and reduced weight in microwave systems
- SMPM: Blind-mateable system that provides a micro-miniature interface that can be used as a smaller and lighter version
- SMP: Allow an increase in performance and complexity of designs, while simultaneously improving upon the form factor
- SMP-L™: Incorporates Secure-Lok™, our patented locking mechanism, into the standard SMP interface
- TMP®: Provide a convenient blind-mateable interconnect solution specifically for high-power applications
- XMP™: Specifically for use in RF-excited CO2 lasers that are capable of delivering between 100 – 600 W of power



Thread-On Connectors

- BNC: Predominant choice in low-frequency RF and aerospace applications that provide superior performance up to 4 GHz
- EPSMA (Enhanced Performance): Maintain the same physical dimensions of an SMA connector, while extending the performance to 26.5 GHz. They are tuned to provide ultra-low VSWR over the frequency range.
- K Connectors 2.92 mm (K*): Provide mode-free performance up to 40 GHz.
- SMA: Our most extensive product line includes a complete list of board-mount, field-replaceable, cable connector, and adapter configurations. An ideal solution for microwave modules and systems up to 18 GHz.
- SSMA: A smaller version of the SMA connector designed for board-to-board connections. Commonly used with .085" semi-rigid cables and provides mode-free performance to 36 GHz. Also available as board-mount, field-replaceable, and other configurations.
- TNC: Used in microwave systems up to 11 GHz. Ideal for space applications and available in high-reliability (Hi-Rel) designs.
- Type N: Used heavily in microwave systems where higher power-handling capability is needed. Includes cable connectors and adapters and is available in both 12 GHz and 18 GHz designs.

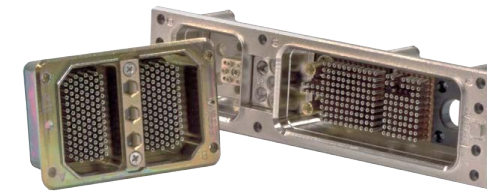
*K Connector is a trademark of Anritsu Company



Precision RF Connectors

- Low-loss, high-frequency options in various configurations for design flexibility and multiple applications
- 50 Ω impedance
- Frequencies supported up to 110 GHz
- Multiple mating interfaces available: 1.00 mm, 1.35 mm, 1.85 mm, 2.4 mm, 2.92 mm, and 3.5 mm
- Solder-mount and solderless/field-replaceable types
- Vertical flange-mount, 30° angled, and edge-launch options

Specialty Connectors



ARINC 404 & 600 Harsh-Environment Connectors

Our ARINC connector capabilities range from standard to complex with custom inserts, filtering, and harnessing options available. We do it all.

CB/CBX All-Plastic Connectors



These lightweight-style connectors have a positive latch-type lock and are perfect for PC board and blind-mating applications.

CBC Galley Connectors



Standardized for ease of maintenance and interchangeability, and designed to accommodate the many different plug-in warming devices and other ancillary units presently in use worldwide.

CLP/CLPP Circular Connectors



Ideal for blind-mating in IFE systems and aircraft galley applications where intermateability with MIL-C-26500 is preferred. These connectors will readily mate with MIL-C-26500 bayonet-type plug MS24266R series connectors and can be PC board-mounted.

CQ Connectors



Emits an audible click when mated. Ideal for blind-mating applications and hard-to-reach places like under passenger seats. Mates with any standard D-Sub or MIL-C-24308 connector when lockpost hardware is installed.

Terminal Lugs



Engineered not only to be reliable but to also drive down costs by reducing weight and providing installation efficiency.

Grounding Blocks



Designed for critical power applications with high-vibration and temperature. Intended for use with copper or aluminum terminal lugs.



CONTACTS

Leading the Industry through Experience, Quality, and Innovation

Powered by decades of experience, we are the premier global manufacturer of high-reliability contacts for harsh environment and mission-critical applications, with the widest QPL range in the industry serving OEM customers in aerospace, defense, space, and industrial markets worldwide. We have a wide global sales and distribution network and process more than 300 million contacts annually entirely in-house – from raw material to finished product.

High-Volume Manufacturing Processes & Capabilities Include:

- Blank manufacturing using cold heading & screw machine
- Automated plating lines (full & selective plating)
- Hooding, stripping, and color banding

Product Offerings:

- » RF Coaxial & Triaxial Contacts
- » Signal & Power Contacts
- » Thermocouple Contacts
- » Custom-Designed Contacts





Contacts

Approvals for AS39029, EN3155, and BACC47

RF Coaxial & Triaxial Contacts



We are your source for RF coaxial and triaxial contacts used in MIL-C-38999, ARINC, and many other connector families. Our RF coaxial and triaxial contacts are used in critical communication systems, commercial and military satellites, and telecom, as well as navigation and integrated avionic applications.

Signal & Power Contacts



Whether you are transmitting data for communication purposes or electrical power to perform work, our contacts will perform reliably as the most critical interconnect components in your connectors. Available with various termination options:

- Crimp
- PC Tail
- Solder Cup
- Wire Wrap

Thermocouple Contacts

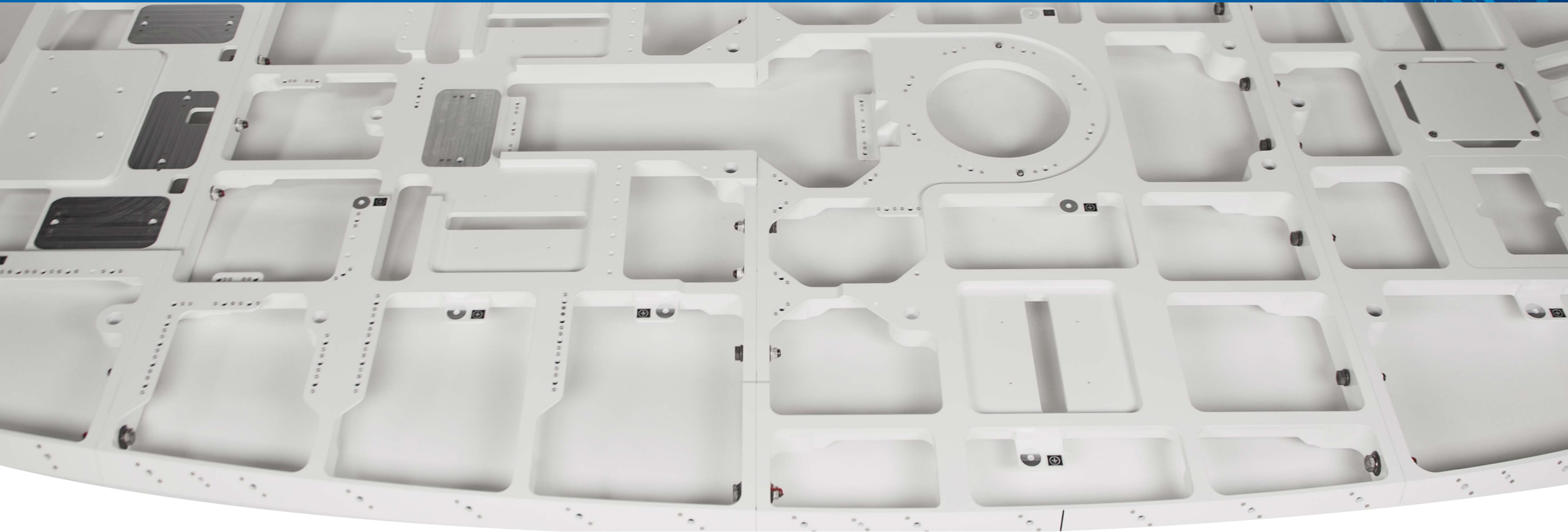


At 36,000 feet on a 70,000-lb thrust jet engine or miles down an oil exploration hole, our contacts can take the punishment. What may be exotic contacts to others have become part of our standard product offering that brings decades of Tri-Star experience to your application.

Custom-Designed Contacts



Special materials, designs, or configurations of contacts — we can handle them all. Enlist our design engineering team early in the process so we can help you to develop the optimum contact for your particular application.



STRUCTURES

Quality Integrated Structures and Industry-Leading Quality Standards

With a unique ability to design, build, test, and certify numerous types of interconnect structural items, we have the leading edge in end-to-end manufacturing.

We focus on building the highest-quality products with the best materials available, offering a wide range of precision structures adhering to military-quality standards and specifications.

Product Offerings:

- » Antenna Mounts & Accessories
- » Avionics Enclosures
- » Racks & Shelves
- » Trays
- » Tray Accessories



Antenna Mounts & Accessories



Antenna Doubler & Adapter Plates

A wide range of installation solutions is available to match any antenna configuration or airframe application. Custom-solution design, substantiation, certification, and kits can be provided upon request.

Cable Feed-Thru Assemblies



Eliminate the need for expensive feed-thru connectors and associated losses for improved system performance. Standard and custom bulkhead cable penetration designs are available.

Avionics Enclosures



ARINC 404A, 600, 628, 836A Enclosures

We use top-quality aircraft-grade materials to meet or exceed ARINC 600 specifications, as well as all civil and military aircraft application criteria. Our special designs stand up to the most rigorous environmental hazards for in-flight and on-the-ground operations. Each enclosure is fully warranted, ensuring that your avionics systems equipment will not only fit securely but operate safely.

- Optional plenum chamber and fan for positive pressure air cooling system

Racks & Shelves



19" Racks

Designed for all aircraft types, our 19" racks feature a ruggedized construction combined with an innovative design that offers a significant weight reduction over existing rack designs.

- Conform to rack standards EIA/ECA-310-E
- Universal rack-mounting flange
- Available in standard "U" heights
- Standard mounting hole patterns are available for both 24" and 27" depth configurations (custom depth and mounting hole patterns available per request)
- Can be customized for special mission needs



Aluminum Equipment Racks & Shelves

Racks: Available with integrated plenums for equipment cooling, optimized for weight and strength, and can be delivered fully wired and ready to fly.

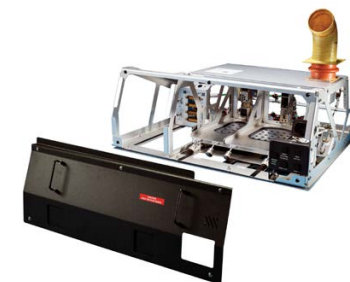
Shelves: Direct-fit replacements or new shelves where additional equipment space is required. Can be provided either as a simple frame where you can add your own installation on top or as fully wired and tested kits ready to bolt into the aircraft and slide in the LRUs.



Composite Equipment Racks & Shelves

Racks: Strong, light, airtight, and fireproof, our composite racks are ideal in spaces where full enclosures are required

Shelves: Special inserts are used to allow mechanical interface with composite racks and aluminum shelving



Overhead Stowage Bin Racks & Structures

We offer a variety of installations to support special cabin equipment, such as inflight entertainment or passenger connectivity. These installations would be located in the overhead stowage bins, generally used for carry-on baggage

Trays



ABS 1699

Standard equipment on all Airbus A3xx aircraft

- Meet ARINC 600 and ABS1773 standards specific to these aircraft platforms
- Integrated side seals to speed installation on cooled equipment shelves
- Cooling holes standardized to accept NSA939511-03 plugs
- Advanced thumbscrew hold-downs



ABS 1876

Developed for the Airbus A350 aircraft but can also be used on all Airbus A3xx aircraft

- Provide a 20% reduction in weight compared to our standard ABS1699 trays
- Meet ARINC 600 standards and ABS1773 requirements specific to these aircraft platforms

Trays Cont'd



ARINC 836A Miniature Module

A small form-factor avionics mounting solution that enables quick and easy field installation/replacement of LRUs. Much like the ARINC 404 and ARINC 600 solutions in place today, this ARINC 836A-compliant design offers interchangeability between manufacturers and standard mounting.

Components:

- A tray that mounts to the aircraft
- An enclosure that holds the electronics
- A locking latch to allow quick and easy installation of the enclosure to the tray



ARINC 404 & 600

All ARINC trays are designed and fabricated in our state-of-the-art manufacturing facility using top-quality aircraft-grade materials to meet or exceed ARINC specifications, as well as all civil and military aircraft application criteria. Our special designs stand up to the most rigorous environmental hazards for in-flight and on-the-ground operations. Each tray is fully warranted, ensuring that your avionics systems equipment will not only fit securely but operate safely.

- Off-the-shelf designs or custom solutions are available to best fit your requirements
- Optional plenum chamber and fan for positive pressure air-cooling system



Lightweight ARINC

Using new fatigue-resistant aluminum materials and a highly refined design, we have developed an innovative line of lightweight ARINC 600 trays that are 20% lighter than standard trays, while still meeting the rigorous performance criteria of FAR Part 25, ARINC 404A and 600, and RTCA/DO-160.



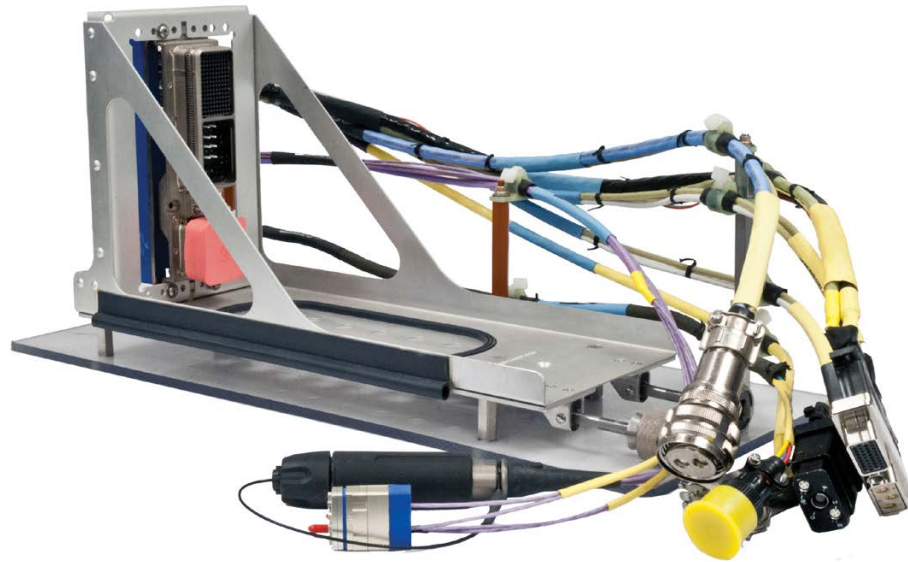
Custom Trays & Mounts

Our engineering staff is available to solve your installation challenges.

- Vibration isolation mounts
- Grounding springs or studs
- Terminal blocks or strips
- Cooling fans and plenums
- Drip shields and hoods
- Full EMI enclosures behind the connector
- Multiple trays or mounts collected into a stacked, side-by-side, or other configuration

Adjustable Keeper with Mounting Block available for ARINC 404-style trays. Details on page 40.

Tray Accessories

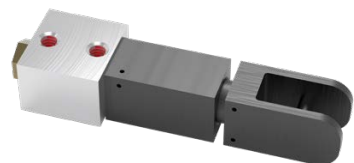


Positive Pressure Air Filtration Systems

We offer a variety of positive pressure solutions to capture dust and debris before they ever enter the cooling system or equipment.

Positive pressure air filtration occurs at the inlet side of a cooling fan, generally installed on a shelf, rack, or individual mounting tray assembly. These filters prevent dust and debris from contaminating the cooling fan and electronics, which can shorten the operating life significantly. Additionally, it helps keep the air plenums free of debris that can restrict cooling air flows. This helps maintain consistent cooling performance over time to make sure high-value electronics aren't unnecessarily stressed by reduced cooling flows. Filtration solutions meet fire standards for airborne equipment and are available in a variety of configurations to maximize filter life.

Adjustable Keeper with Mounting Block

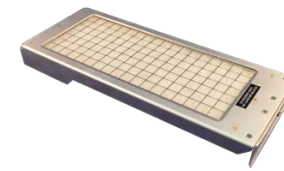


Designed as an upgrade to the NAS1637 Adjustable Keeper with Mounting Provisions, this product interfaces with the NAS1637 latch to retain Line Replaceable Units (LRUs) into ARINC 404-style trays. With upgraded materials, finishes, and additional features, it:

- Exceeds the performance and user experience of build-to-spec NAS1637 keepers
- Includes a mounting block that allows for installation on avionic trays and maximizes the adjustment range of the keeper

ARINC 404-style trays listed on page 38.

Tray Accessories Cont'd



Negative Pressure Air Filtration Systems

We offer three types of negative air pressure filtration systems that significantly reduce the ingress of cooling air contaminants from entering the equipment through top to bottom cooling flows.

- Tray-mounted
- LRU-mounted
- AF-5000 air filtration unit



Temperature & Cooling Flow Sensors

A low-cost monitoring solution for your stand-alone cooling system that can be interfaced into any low-pressure plenum application.



Stand-Offs

Our male/female threaded Hex stand-offs are ideal for clamping wire bundles or tubes away from a bulkhead or for routing through various structural installations.

- Color-coded to indicate the height
- Made from aerospace-grade aluminum for additional weight savings



Insertion-Extraction Hold-Downs

We offer several installation "force-limiting" hold-downs with extraction features to protect the blind-mate connectors interfacing with your equipment. Offers easy maintenance removal and replacement.



Military-Style Hold-Downs

The industry standard for a thumbscrew hold-down restraint of avionics equipment.

- Secure ratcheting locking mechanism that meets the performance standards of MS14108, MIL-F-85371
- RoHS-compliant



Advanced Thumbscrew Hold-Downs

A lightweight, high-performance option when a more advanced solution is needed. Developed to meet the extreme performance standards of ABS1699, ASNA2168, and RTCA/DO-160.

- Retain equipment even when not fully tightened
- Provide superior installation force compared to standard military-style hold-downs



SYSTEMS

Avionics equipment is made even better with the best installation components

We provide kits and components with varying levels of factory-completed integration to fit the needs of any installation program. One aircraft or hundreds, we are ready to help minimize the time in the hangar and get you flying again quickly. Need something specialized? Our engineering team is ready to create the perfect package, including custom structures, harness assemblies, fiber optics, RF cables, and other critical components.

- Approvals from FAA or EASA delegates
- Specialized substantiating documentation
- Robust manufacturing capabilities from FAA-approved facilities

Product Offerings:

- » Automatic Dependent Surveillance Broadcast (ADS-B)
- » EFB Systems
- » GPS System/Multimode Receiver (GPS/MMR)
- » In-Flight Entertainment & Connectivity
- » SATCOM



Automatic Dependent Surveillance Broadcast (ADS-B)



Certified installation design packages and kits available for:

- A320
- 757
- 747
- 767

Other airframes can be quoted upon request

EFB Systems



eZMount® Tablet Cradle for iPad®

Designed to be mounted to the eZMount Twist mounting system, the eZMount universal cradle allows many generations of devices to be used without updating the mounting on the aircraft, eliminating costs of certification and hardware replacement. This gives airlines flexibility to upgrade their devices without driving costly changes to aircraft fleets.



eZMount® EFB Mounting Solutions

Engineered to adapt to angles and tight constraints of the flight deck and designed to be easily adjustable by the flight crew for enhanced operation and safety.

- Fully RTCA/DO-160 FAA-witness tested, substantiated to 20G impulse and 9G sustained crash-loads in all directions
- The only mounting solution for both certified and noncertified options that meets all of these qualifications
- Provisions available in complete STC installation kits or as individual PMA components to support owner/operator EFB STC* installation projects or installation via local field approval efforts (Form 337)
- All display mounts are compatible with our eZMount Tablet Cradle

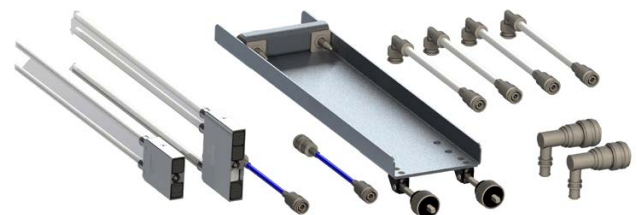
GPS System/Multimode Receiver (GPS/MMR)



Certified installation design packages and kits available for most Airbus and Boeing aircraft.



In-Flight Entertainment & Connectivity

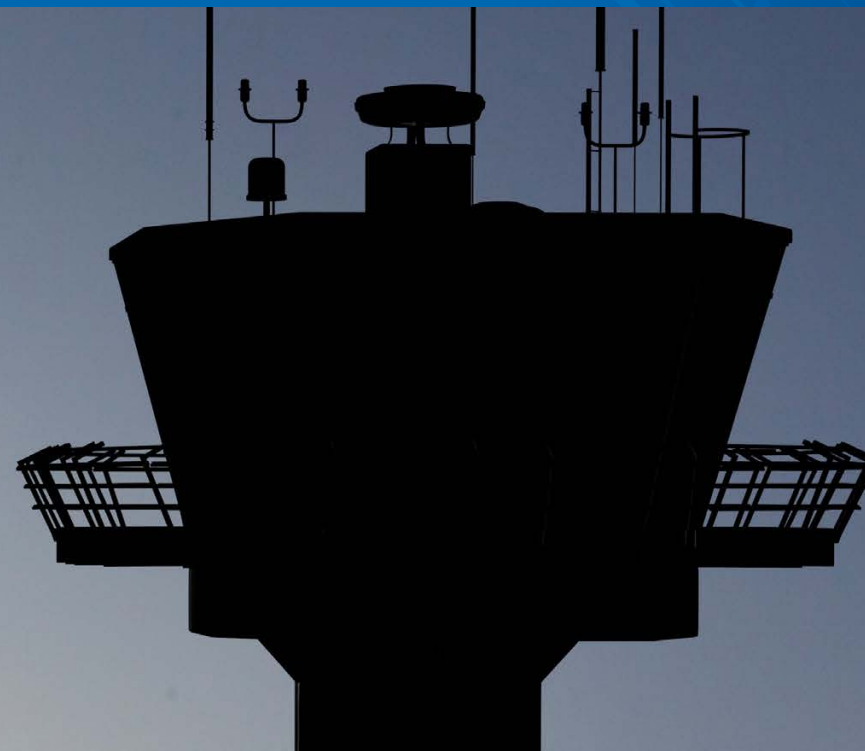
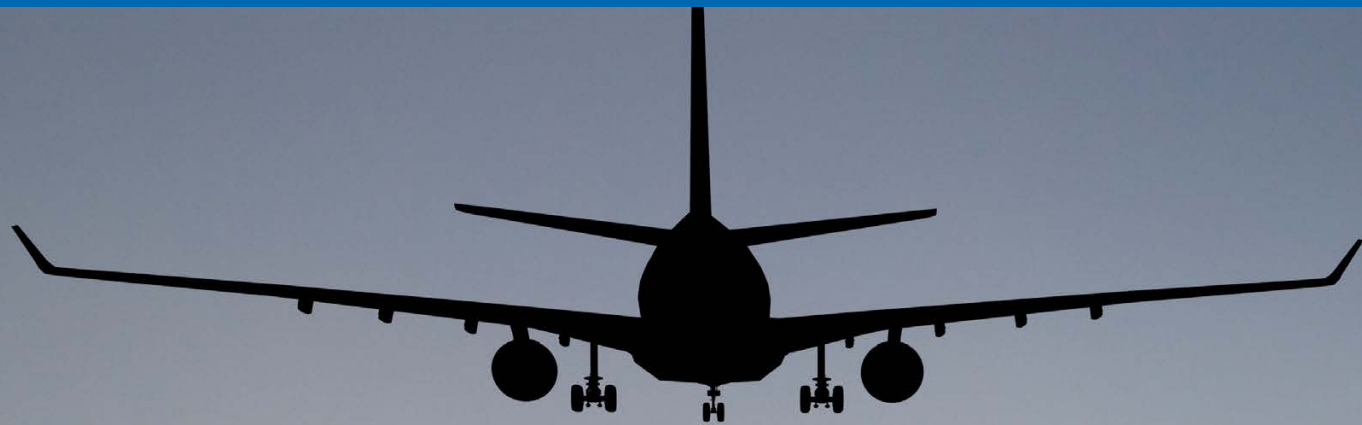


Want to install the latest in high-speed connectivity to your large or small aircraft? Our connectivity integration kits contain the key components you need to mount, connect, and interface modems, routers, content servers, and antennas on the aircraft quickly and easily. Our products are often the standard items referenced in the equipment installation manuals for these popular systems, assuring you of the best possible performance of the system in the air.

Don't see what you need? Contact our applications engineering team, and we'll be glad to help!

Kits:

- Cobham AVIATOR 200, 300, 350, 700, and SP
- FlightGear™ ARINC 791 and 792 Ka, Ku, Ka/Ku
- Gogo AVANCE™
- HD-710/HP-720 Hardware (Unpressurized Application)
- HD-720 Hardware
- Honeywell Aspire 200, 350, and 400
- HS-720 Hardware
- HSD-440 Hardware
- HSD-X Hardware
- SD-720 Hardware
- SENTRY™ Flight Data Recorder Retrofit Kit
- Simphone
- SmartSky 4G LTE ATG



SATCOM

ARINC 791 Installations

We offer multiple ARINC 791 solutions for Ka-band, Ku-band, and Ka/Ku SATCOM installations. Our ARINC 791 adapter plate solution fulfills the need for standardized installation, easier maintenance inspections, and an overall lower cost of ownership. Installation packages are available for a wide range of aircraft. Details of available certifications, in-process engineering, and customizations are always expanding and can be furnished upon request.

- Conforms to the ARINC 791 standard, which future-proofs your SATCOM installation and makes upgrades to next-generation SATCOM antennas and system equipment easier and faster, with commonality across entire fleets
- Designed to support a wide range of SATCOM systems, ARINC 791 is preferred by aircraft manufacturers for line fit installations

Thermal Management Solution (TMS) for ESA SATCOM Applications

An integrated isothermal transfer plate utilizes patented technology to transfer heat from the antenna(s). Passive elements reject heat to the surrounding environment. The all-aluminum structure eliminates concerns about galvanic corrosion common to other heat transfer technologies. Our TMS can be adapted to any antenna form factor and integrated into the antenna support structure.





WIRE & CABLE

Engineered and installed to meet your unique challenges

Ruggedized to perform reliably in harsh conditions and under extreme temperatures, our wire and cable can be engineered and installed to meet your unique challenges.

Product Offerings:

- » Composite Aerospace Wire
- » MIL-SPEC Wire
- » Commercial UL/CSA/BS Cable & Hookup Wire
- » Industrial Wire & Cable
- » Fiber Optic Cables
- » Harsh Environment, Engine, and SWAMP Cables
- » High-Speed Digital & Data Cables (Aerospace)
- » High-Performance Coaxial Cables
- » High-Voltage Wire & Cable
- » Specialty Cables
- » Shielding & Overbraiding Products
- » Cable Assembly & Repair Products

Composite Aerospace Wire & Cable



Seamless™ & Seamless™-T

Seamless and Seamless-T PTFE tape-wrapped products are designed for use in commercial and military aerospace applications and are available in a variety of constructions and colors. Custom designs are available by request.

AS22759/80-/92 and AS22759/180-/192 Hookup Wires: Incorporate either dual-, three-, or four-layer insulation constructions with either copper alloy, tin-, silver-, or nickel-plated stranded conductors.

NEMA WC 27500 Cables: Incorporate from one to 15 MIL-DTL-22759, MIL-DTL-25038, or MIL-DTL-81381 wires, plus a single or double shield, and a single or double jacket.

Tufflite®

Available in six cable families in sizes 26 to 4/0 AWG. Laser-markable and approved to multiple commercial aircraft platforms.

- TL: Medium Wall, Normal Weight
- ST: Enhanced Medium Wall, Normal Weight
- SLT: Thin Wall, Light Weight
- TLR: Metric Medium Wall, Normal Weight
 - EN 2267-010 (DR)
 - EN 2714-013 (ML)
- TLS: Thick Wall, Abrasion-Resistant
- TLA: Thick Wall, Aluminum Conductor

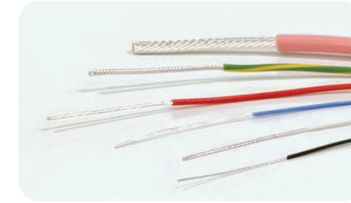
MIL-SPEC Wire



Suitable for high-temperature applications with PTFE, ETFE, FEP, or PTFE/polyimide insulation. Options for highly abrasion-resistant insulation or high-strength conductors for maximum performance under mechanical stresses are also available.

- AS22759 Wire (fluoropolymer insulated)
- MIL-C-17 (high-performance coaxial cable)
- NEMA WC 27500 Cable
- MIL-DTL-16878 Wire (NEMA HP3, HP4)
- MIL-DTL-25038 Wire (fire-resistant)
- MIL-DTL-81381 (polyimide insulated)

Commercial UL/CSA/BS Cable & Hookup Wire



Meets or exceeds Underwriters Laboratories (UL) and/or the Canadian Standards Association (CSA) safety standards.

Industrial Wire & Cable



Polyimide Equipment Wire & Cable

A compact, lightweight, and mechanically tough polymer with:

- Good flexibility
- Heat resistance
- Chemical resistance

Typical applications include airframe and aircraft wiring, military communications and avionics, automotive wiring, and nuclear power installations.



Thermocouple Cables

Available in a broad range of thermocouple cable types and designed for accurate measurement and control in a variety of applications, including connecting sensors to devices, instrumentation and control, and temperature measurement.

- SAE5419 with parallel or spiral-laid components wires
- AS5419 Type "K" cables are typically used as extension leads for aerospace applications. Thermocouple extension wires are calibrated for use together in fabricating thermocouples.
- Dumbbell (single-shot and figure 8)
- Engineered to withstand hazardous environments
- Excellent resistance to chemicals, oils, and lubricants
- PTFE, FEP, PFA, or polyimide insulations
- Wide temperature performance
- Color-coded insulation for ease of identification



Fiber Optic Cables

LITEflight® EP

Aerospace-grade fiber optic cables that provide all the performance and benefits necessary to perform in the harsh environments of aerospace and military applications with low loss, tight bend radius, improved thermal stability, and peak performance during termination and installation. Semi-loose structured and compatible with all commercially available fiber optic termini and connectors.

LITEflight® HD

A multichannel fiber cable in the smallest package. Designed for compatibility with cutting-edge fiber optic connector designs like industry-leading MPO and MPO-derivative connectors, as well as emerging multifiber termination connectors.

LITEflight® HP

Offers excellent thermal stability and ideal connector/contact compatibility in a semi-loose construction for challenging harsh environment installations.

LITEflight® POF

The only aerospace-qualified POF cable on the market today and the highest-performing plastic optic cable for harsh environment installations. Available in single- and multicore configurations and compatible with all standard POF transceivers.

LITEflight® TS

The best-performing tight-structured cable in the industry, offering low loss and high bandwidth. Available in all standard multimode and single-mode core types.



Harsh-Environment, Engine, and SWAMP Cables



Thermazone™ Fire-Resistant Cables

Designed for use in high-temperature and severe-environment applications such as engine wire, fire detection circuits, fly-by-wire systems, and flight-critical circuits. Three wire options are offered:

- MIL-DTL-25038/1 (Thermazone I)
- MIL-DTL-25038/3 (Thermazone IIIK, IIIG)
- BMS 13-55 (Boeing Material Spec)



EFGLAS Equipment Wire & Cable

Designed for Severe Weather and Moisture Prone (SWAMP) applications, such as wheel housings, wings, and engine nacelle. Provides extreme strength, abrasion, and temperature resistance from the combination of PTFE tape and a PTFE impregnated glass yarn braid.



ESW Firezone Cables

A range of high-temperature, fireproof, and fire-resistant single- and multicore cables, incorporating PTFE and polyimide, specifically designed for use in fire zone areas of the aircraft engine.

High-Speed Digital & Data Cables (Aerospace)

We offer innovative data cables designed for reduced size and weight, easy installation, and flexibility in tight routing spaces. Choose from a wide range of high-performance data cables that meet the demanding needs of your aerospace applications.



NETflight® Series Ethernet Cables

Built with a small envelope, lightweight housing, and faster bandwidth speeds to meet the demands of new technology and increasingly higher data-transmission requirements. Both standard and custom configurations are available for instrumentation, control, and signal applications of various types.

- 100 Base-T Ethernet Cable – Single Twisted Pair
- 100 Base-T Ethernet Cable – Shielded Quad
- 100 Base-T Ethernet Cable – Twisted Pair
- High-Performance Ethernet Quad Cable
- Lightweight 100 Base-T Ethernet Quad Cable

Maxflite™ Series Cables



Provides high-speed performance for the popular video and data bus protocols. Designed for Severe Weather and Moisture Prone (SWAMP) applications, such as wheel housings, wings, and engine nacelle. Provides extreme strength, abrasion, and temperature-resistance from the combination of PTFE tape and a PTFE-impregnated glass yarn braid.

- HDMI
- DVI
- USB
- Firewire
- CANbus
- Fiber Channel

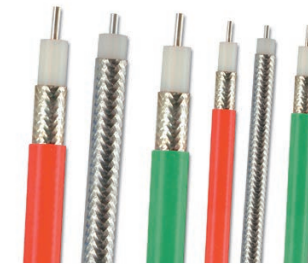
Gigabit Series Ethernet Cables

Combine industry-leading, high-speed performance with significant size and weight advantages over comparable cables. Their durable design and exceptional electrical and mechanical characteristics make them ideal for a broad range of high-speed Ethernet applications in the aerospace, defense, military, and ground transportation markets. Developed in a wide variety of configurations to provide 1 and 10 Gb performance in the most demanding applications. These cables can be paired with our Octax connectors to produce an ultra-high-speed cable assembly.

- Shielded Dual Quads
- Gigabit-10HP™
- Gigabit-Flexx™
- Gigabit-Plus™
- Gigabit-STP

Octax connectors listed on page 25

High-Performance Coaxial Cables



MaxForm® Hand-Formable Cables

A hand-formable alternative to semi-rigid cable. With its 100% shield coverage, it provides equivalent performance to MIL-C-17 semi-rigid but can be formed by hand without the use of bending equipment.

- Solid PTFE core beneath a tin-soaked metal braid
- A direct replacement for UTIFORM® cables as general form, fit, and function for both products are identical



ECS Brand Avionics RF Cables

Configured specifically for avionics systems that require a low-loss cable with frequencies between 0 – 12 GHz. Sold in bulk, cut-to-fit, or within a kit, these cables have short lead times with no minimum quantity and, in many cases, are in stock with same-day shipping available.

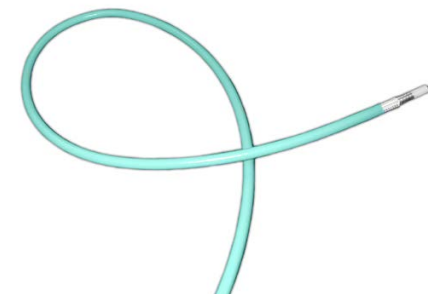
- 50 and 75 Ω Triaxial
- 75 Ω Coaxial



Semi-Rigid Coaxial Cables

A large range of impedances, diameters, materials, and finishes are available.

- MIL-DTL-17-Qualified Cables
- Standard Copper, Aluminum, and Stainless Steel 50 Ω Cables
- Dimensionally Stable "DS" 50 Ω Copper Cables
- Non-50 Ω Impedance Cables
- Low-Loss 50 Ω Copper and Aluminum Cables
- Ultra-Low-Loss 50 Ω Copper Cables
- Custom Cables



M-FLEX® Flexible Coaxial Cables

Flexible cables capable of accepting connectors designed for semi-rigid cables. Unlike other single- or double-braided "RG" type flexible cables, M-FLEX cables are true microwave cables capable of operating at frequencies of 26.5 GHz.

- Precision, helically wrapped, silver-plated copper foil inner shield
- Outstanding flexibility while providing 100% coverage
- Electrical performance approaches that of their semi-rigid counterparts
- Intended for static installations
- Supplied in long, continuous lengths, which makes M-FLEX cables ideal for automated cutting and stripping equipment

High-Voltage Wire & Cable

All of our high 1000 V cables are constructed with highly flexible nickel-plated copper strands in gauges from #8 to #0000 AWG for demanding flight profiles and temperatures up to 260 °C. Together, these cables solve the common problems EWIS engineers encounter in designing power distribution systems, such as light weight, small diameter, and high flexibility. All three product families are laser-markable for easy identification.



Available Types:

- Extruded
- Composite
- Ultra-Flexible Shielded Composite

Specialty Cables

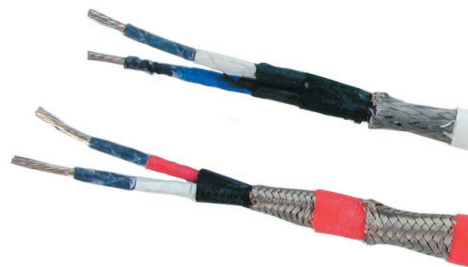


Coil Cords

Provide a combination of strength, flexibility, and resistance in harsh chemical environments across a wide operating temperature range. A wide variety of materials is available on customer-specific designs for aerospace and industrial markets.

- Diameter: Up to 3.0 in (7.6 cm)
- Coiled length: Up to 7 ft (2.1 m)
- Operating Temperature: -55 to 200 °C
- Jacket Materials: polyurethane, hytel, Seamless™ PTFE tape/polyimide, FEP/polyimide, polyolefin
- Internal Wires: PTFE, PTFE/polyimide composite, FEP, ETFE standard or custom data cables

Low-Noise Cables



Minimize triboelectric noise generated by cable movement and provide superior shielding to protect signals from external interference. These cables are ideal for use with piezoelectric accelerometers or other sensitive transducers, or other applications with low-power signals and/or electrically noisy environments.

They are also used in airborne EVM (Engine Vibration Monitoring) systems with approval from many major aerospace manufacturers.

Shielding & Overbraiding Products



ARACON® Lightweight Fibers & Braids

ARACON fibers combine the conductivity of an outer metal coating with the strength, light weight, and flexibility of aramid fibers. ARACON fibers are based on the same technology that created DuPont™ KEVLAR®, well known for its use in bullet-resistant vests, high-speed boats, and military helmets.

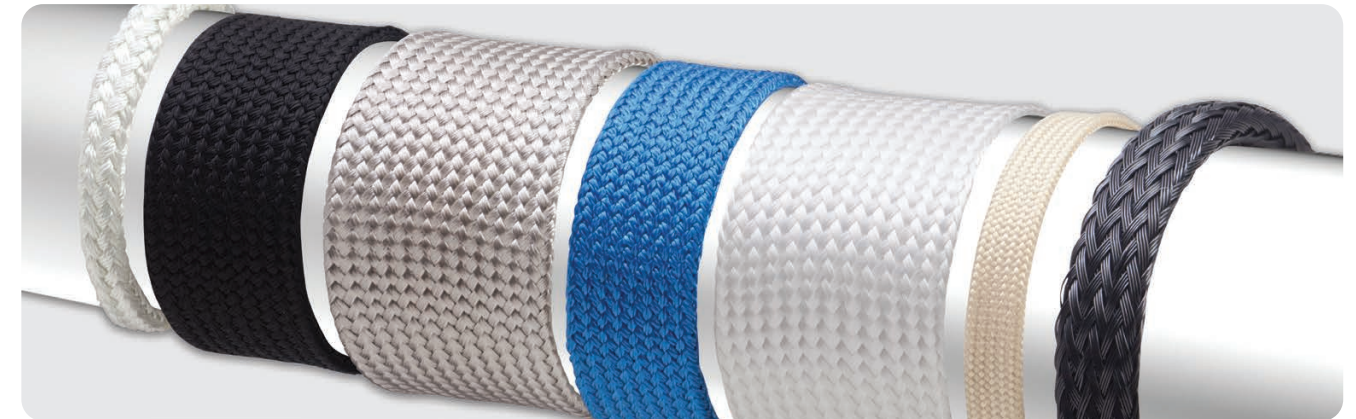
When braided into a shield, ARACON provides superior performance against electromagnetic interference (EMI) with weight savings of up to 80% over conventional metal braiding.

Metallic Braids

Utilizing braiders from eight to 96 carriers, we offer several different sizes of metallic EMI shielding:

- Nickel-plated copper (per A-A-59551)
- Tin-plated copper (per A-A-59551)
- Silver-plated copper (per A-A-59551)
- Stainless steel (per QQ-W-423)

Shielding & Overbraiding Products Cont'd



Non-Metallic Braids

For protective non-metallic overbraiding, we can adjust coverage, braid angles, and material type to facilitate the needed heat resistance, abrasion resistance, or flexibility.

- Ceramic
- Cloth
- "E" Fiberglass
- ECTFE (Halar®)
- Graphite
- Kevlar
- MIL-C-572
- Nylon
- Nomex
- PEEK
- PETE
- PTFE
- "S" Fiberglass

Custom overbraiding services listed on page 73.

Cable Assembly & Repair Products



Portable Coaxial Cable Stripper Kit

Cuts and strips our ECS brand Avionics coaxial cables in three seconds, reducing termination times dramatically and ensuring the perfect no-nick strip every time.

- Blades last up to 15,000 strips
- Handheld driver is powered by a removable battery pack
- Comes complete with hard-shell carrying case, charger, and one cutter head (additional cutter heads sold separately)

SENSORS

High Performance for Complex Applications

When an application demands complex measurement, a high-performing sensor for displacement, distance, position, or vibration can deliver the results you need to achieve market-leading performance. As the world's leader in precision products, Lion Precision, an Amphenol CIT brand, produces high-performance capacitive and inductive sensors capable of delivering an unmatched combination of resolution and speed. Rapid customization and short lead times bring your high-tech products to market quickly. Lion Precision's displacement, distance, position, or vibration sensors can give you the best results for the most demanding measurements.

Product Offerings:

- » Capacitive Sensors
- » Eddy Current Sensors
- » Label Sensors
- » Machine Tool Sensors
- » Fast Steering Mirror Sensors



Capacitive Sensors

High-resolution, high-performance noncontact displacement, distance, position, oscillation, and vibration sensors for a wide range of applications.

Elite Series



Product Selection Guide	CPL591/592	CPL490	CPL190/290	CPL230	CPL350	CPA100
Typical Resolution* (% F.S. rms) @ 15 kHz	0.004%	0.0007%	0.003%	0.004%	0.004%	0.03% @ Midrange
Linearity*	0.1%	0.2%	0.2%	0.5%	0.5%	Nonlinear
Dual Range (Sensitivity)	CPL592		CPL290			
User Adjustments	✓	✓	✓			✓
Adjustable Gain						✓
Adjustable Offset	✓	✓	✓			✓
Range Indicator	✓	✓	✓			✓
Setpoint/Switched Output						✓
Channels Per Package	1-8	1-3	1-8	1-6	1	1
Selectable Bandwidth (kHz)	0.1, 1, 10, 15	1, 10, 15, 50	0.1, 1, 10, 15	0.1, 1, 10, 15	0.1, 1, 10, 15	
Maximum Bandwidth (kHz)	15	15	15	15	15	15
Customization Available	✓	✓	✓	✓	✓	✓
Digital Output	✓					

STANDARD TECHNICAL SPECIFICATIONS

*Typical specifications dependent on probe and range

Eddy Current Sensors

Our eddy current sensors provide high-resolution measurement and unmatched precision in even the dirtiest environments. These advantages have made eddy current sensors indispensable for many machine builders, production managers, and precision metrology applications.



Product Selection Guide	ECL202	ECL150	ECL101	ECL110	ECA101
Linear Analog Out	✓	✓	✓	✓	
Nonlinear Analog Out					✓
Digital Output					
Setpoint Output	✓				✓
Pushbutton Adjustment	✓				
Adjustable Gain			✓	✓	✓
Adjustable Offset	✓		✓	✓	✓
Range Indicator	✓	✓	✓	✓	✓
Multichannel Package		✓		✓	
Selectable Bandwidth (kHz)	0.1, 1, 10, 15	1, 10, 15, 50	0.1, 1, 10, 15	0.1, 1, 10, 15	0.1, 1, 10, 15
Linearity	0.2%	0.2%	0.25 - 0.5%	0.25 - 0.5%	Nonlinear
Resolution	0.002% - 0.025%	0.002% - 0.025%	0.004% - 0.06%	0.004% - 0.06%	0.02%
Maximum Bandwidth (kHz)	15	15	80	80	10

Machine Tool Sensors

Precise inspection to ensure you're producing your best work.



Spindle Error Analyzer (SEA)

Flexible configuration for sophisticated measurements and highest-precision spindles.
Best analysis device available
Applications: Production/Machine Shops



SpindleCheck Analyzer (SCA)

Detailed analysis of machine performance with high resolution.
Applications: Production/Machine Shops



TARGA III

The first and best system to measure run-out of high-speed PCB drilling spindles.
Applications: High-Speed Runout Measurement



Image Credit: NASA

Sensor-Driver System for FSM & Differential Sensing Applications



Featuring state-of-the-art Lion Precision Eddy Current Sensors, the EDA500 controller is the ideal off-the-shelf solution for Fast Steering Mirror and differential sensing applications. The EDA500 system comes with two matched pairs of high-resolution noncontact Eddy Current Sensors, the driver with four sensor inputs (two per axis), an analog output, and a nine-pin connector interface for easy connectivity. The system can be customized for specific applications and is also available as a board without an enclosure for space savings and easy integration into a control system.

Designed For:

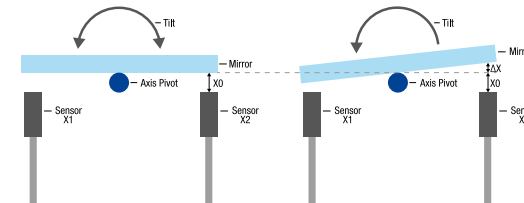
- » Fast Steering Mirror (FSM) sensors
- » Telescope & microscope stabilization
- » Image stabilization

Features:

- » High bandwidth
- » High resolution
- » Low power consumption
- » Excellent temperature stability
- » Matched sensor for high stability & repeatability
- » Radiation tested to 75 krad TID

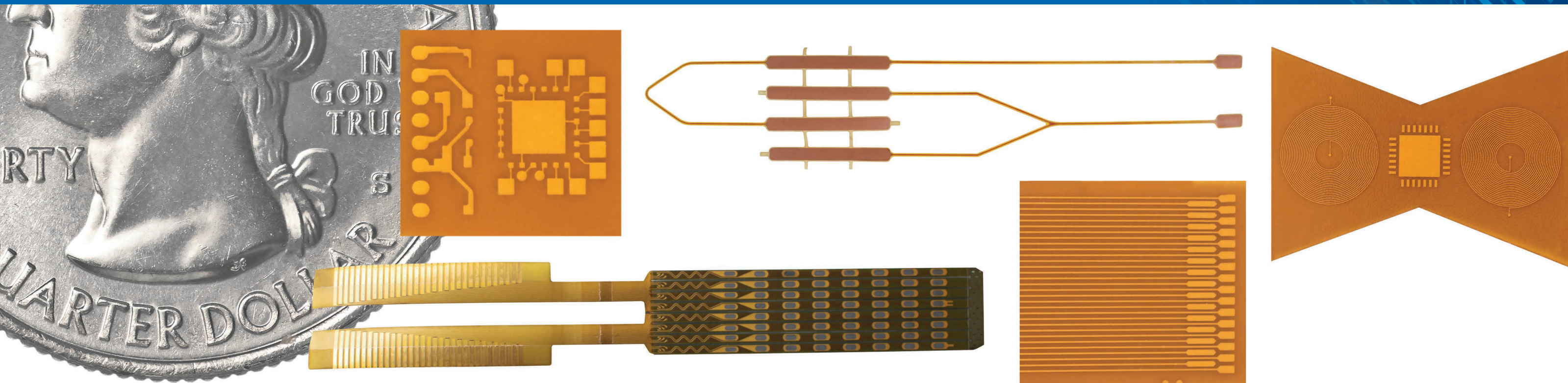
How It Works:

The differential system provides feedback from any change in the null position. Small changes in the tilt of the target are measured and sent to the actuator to allow fast and accurate control and positioning.



SPECIFICATIONS	
Input Power	±15 VDC, ±53 mA, 1.6 W
Analog Output	± 10 V
Linearity Error	± 0.1%F.S. @ 22 °C
Error Band	± 0.2%F.S. @ 22 °C
Driver Operating Temperature	0 °C to +60 °C
Probe Operating Environment	-25 °C to +125 °C
Weight (Electronics)	41 grams (board only)
Weight per Probe (1 meter)	12.5 grams
Standard Range*	700 um (150 to 850 um)
Driver Thermal Drift at Null	±0.001% FS/C
Driver Thermal Drift at Min Gap	-0.02% FS/C
Driver Thermal Drift at Max Gap	+0.02% FS/C
Probe Thermal Drift at Null	±0.005% FS/C
Probe Thermal Drift at Min Gap	-0.01% FS/C
Probe Thermal Drift at Max Gap	+0.01% FS/C
Bandwidth (-3dB)	28 kHz
Group Delay	< 12 us
RMS Resolution at Null Gap	< 7.0 nm
RMS Resolution at Max/Min Gap	< 25 nm

*Standard range shown; custom ranges available upon request.



FLEX CIRCUITS

Maturing your ideas from prototype to production

We are proud of our reputation as an advanced flex printed circuit (FPC) fabricator. We have earned this distinction by advancing our manufacturing processes for flex circuit board fabrication with higher circuit densities and unique design characteristics. Our engineering teams hold multiple success stories of assisting our customers from only a design concept to a finished flex printed circuit. We invite you to partner with MicroConnex, an Amphenol CIT brand, for your next flex circuit board design.

Along with flex circuit board manufacturing services, we also offer thin film deposition capabilities and laser micromachining services. Visit MicroConnex.com to determine a solution for your next printed interconnect device.

Product Offering:

- » Polyimide films as thin as $12.5\ \mu\text{m}$
- » $25\ \mu\text{m}$ diameter thru, blind, and buried vias
- » Thin film deposition incorporated into flex printed circuit fabrication
- » Unsupported metal leads (flying leads)
- » $25\ \mu\text{m}$ trace/space circuit densities

Flex Circuit Fabrication Capabilities & Design

CAPABILITY	Standard	Advanced	Developmental
Layer Count (circuit layers)	1 to 6 layers	7 to 10 layers	more than 10 layers
Available Trace and Space	Thickness & Process Dependent - See Below		
Laser Drill MicroVias to Pad	125 μm Pad with 25 μm > Via	75 μm Pad with 25 μm Via	50 μm Pad with 25 μm Via
Plated MicroVias Size Laser Drill (Aspect Ratio)	6 to 1	8 to 1	10 to 1
Plated Blind MicroVias Size – Laser Drill	>50 μm blind	38 μm blind	25 μm blind
Positional Accuracy of MicroVias (Material Dependent)	25 μm	12 μm	< 12 μm
Solder Mask Positional Tolerance	50 μm	25 μm	25 μm
Solder Mask Webbing	125 μm	100 μm	75 μm
PI Coverlay Positional Tolerance	75 μm	50 μm	< 25 μm
PI Coverlay Webbing	125 μm	100 μm	75 μm
PI Coverlay Adhesive Bleed	100 μm	75 μm	< 50 μm
Bump Diameter	Bump Diameter 175 μm Base Pad 300 μm Post Height 15-45 μm	Bump Diameter 125 μm Base Pad 200 μm Post Height 15-45 μm	Bump Diameter 75 μm Base Pad 150 μm Post Height 15-45 μm
Layer to Layer Registration	50 μm	25 μm	< 25 μm
Imaged Feature to Laser Feature Registration	50 μm	25 μm	< 25 μm
Controlled Impedance	10%	10%	< 10%

		COPPER TRACE THICKNESS					
		1/8 oz (5 μm)	1/4 oz (9 μm)	1/2 oz (18 μm)	1 oz (36 μm)	1 1/2 oz (54 μm)	2 oz (72 μm)
Space & Trace	Semi-Additive Process	25 μm	30 μm	38 μm	75 μm	75 μm	100 μm
	Subtractive Process	Contact Us for Design Options					

Guidelines Only - "Mix and Match" designs that span categories are typical for our customers
MicroConnex offers Proto- to Production fabrication for each capability category

Additional Flex Capabilities

CAPABILITY	Available Options	Details
Surface Finish	ENIG	Ni: 0.5 to 6.0 μm (20-240 u") Au: 0.05 to 0.20 μm (2-8 u")
	Ni/Au (Electroplated Soft & Hard Au Available)	Ni: 0.5-5.0 μm Au: 0.5-3.5 μm (Thicker Stacks Available)
	ENEPIG	Ni: 2.5 to 3.8 μm (100-150 u") Pd: 0.1 to 0.2 μm (4-8 u") Au: 0.025 to 0.050 μm (1-2 u")
	Immersion Sn	1.0 μm (40 u")
	Immersion Ag	0.1 to 0.4 μm (4-16 u")
	OSP	Bare Cu Surface Protect (Anti-Oxidation)
Quality and Metrology	AOI	Orbotech Ultra Dimension 800 Flex AOI for Dimensional Verification to 15 μm Orbotech Ultra PerFix™ 120 – Laser Removal of Shorts & Cu Defects to 10 μm View Pinnacle 250 & Plus for Dimensional Metrology (x-y-z)
	3D Imaging and Metrology	Keyence VHX 6000 for 3D Imaging and Proto Metrology Nikon VMA 6555 – Optical Imaging and Production Metrology
	Cross Section & Optical Microscopy w/ Image Capture	Via Plating Verification
	XRF	Fisher XDV u-Poly Capillary with Silicon Drift Detector Spot Size of 20-30 μm > 0.01 μm Film Thickness Resolution Light Element Capability; Phosphorous Composition Verification in EN
	Flying Probe E-Test	ATG A7 for Continuity 1 W to 10 kW and Isolation up to 25 MW (FM) 10 GW (ohmic) with MicroShort Detection and Soft Touch Probes
	Dimensional Verification	Olympus STM7 Optical CMM Microscope with x-y Stage and z-axis Measurement Capability. Up to 500x Magnification. 1 μm z-axis accuracy
	TDR (Time Domain Reflectometry) Impedance Test	Polar Si8000 Field Solver
Laser Processing - ESI 355 nm UV	Singulation	Precision laser cutting down to +/- 10 μm accuracy
	Skiving/Ablation	Controlled depth skiving and lead/feature ablation down to +/- 5 μm accuracy
	Blind/Thru Via Drill	Capability to 25 μm Via Diameter
Thick Metallization & Electroforming	Ni, Cu, Au (Other Engineering Metals or Alloys upon Request)	Semi-Additive: Up to 50 μm thickness; 1:1 Aspect Ratio Through-Mask: Up to 50 μm thickness; 5:1 Aspect Ratio
Thin Film Deposition	Target Set: Al, AU, Cu, CuNi, Ir, Cr, Ni, NiCr, Ti, TiW Reactive Sputtering: IrOx and Variants	Magnetron Sputter Deposition: 5-3000 nm thickness Three Targets per Load Maximum



SERVICES & CAPABILITIES

We're ready to take on your next challenge

At Amphenol CIT, our commitment to providing you with end-to-end solutions comes to life through our comprehensive suite of services and capabilities. By working closely with you, we gain an exceptional focus on solutions specifically tailored to your needs, from design to delivery and beyond. We can design, build, test, certify, and deliver precisely what you need, exactly when you need it. Whether it's for commercial aerospace, military & defense, space, test & measurement, industrial, or medical technology applications, Amphenol CIT has just what it takes to get it done.

We Offer:

- » Engineering & Design
- » Airworthiness Certification
- » 5-Axis Machining
- » Laser Marking & Engraving
- » Mechanical Assembly
- » Metal Finishing & Paint
- » Sheet Punch & Forming
- » Water Jet Cutting
- » Testing & Field Services
- » Custom Overbraiding Services
- » Bobbin Winding
- » Contract Manufacturing



Engineering & Design

Our ability to create custom solutions means you have a true partner in innovation as you move your business forward.

- Complete electrical and structural design
- Custom component design
- Field installation surveying
- Airflow cooling and analysis
- Stress analysis
- Qualification testing
- Fire detection and containment
- Regulatory compliance (SFAR 88, DO-160, FAR)
- Conformity, STC, and PMA
- On-site DER, DAR, and DMIR
- ProE, AutoCAD, and CATIA



Airworthiness Certification Services

We are an FAA STC Design Approval Holder with a staff of certification experts, in-house Federal Aviation Administration Designated Engineering Representatives (FAA DERs), Designated Airworthiness Representatives (FAA DARs), and Designated Manufacturing Inspection Representatives (FAA DMIRs).

- STC Certification (FAA/EASA/Part 21 DOA)
- PMA Manufacturing (FAA PMA/EASA Part 21 POA)
- OEM Aircraft Parts & Assemblies

Hundreds of STCs have been awarded to Amphenol CIT across a broad spectrum of systems and equipment and have been recognized by airworthiness authorities worldwide. Amphenol CIT components fly on more than 90% of commercial aircraft in service today.



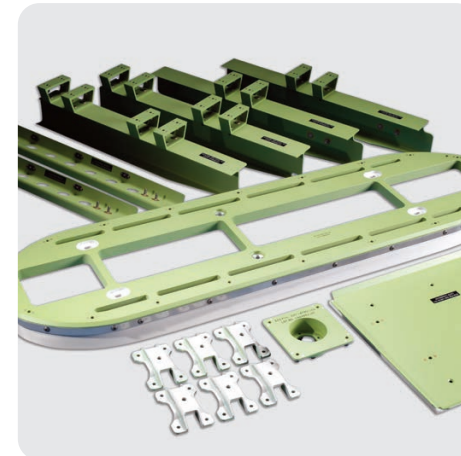
5-Axis Machining

We have extensive manufacturing facilities for aerostructures of all shapes and sizes. We can work in a wide variety of aerospace metals, including aluminum, stainless steel, titanium, and select composites. 3- and 5-axis CNC, lathe, and long-bed machining make turning your designs into high-quality pedigreed aircraft parts quick and easy. Manufacturing facilities are FAA PMA-approved, allowing parts to be delivered with airworthiness tags if requested. All parts receive AS9102 FAI and detailed inspection by an expert quality staff using the latest technology.



Laser Marking & Engraving

Permanent logos, labels, bar codes, and part numbers can be engraved into a wide variety of metals and plastics.



Mechanical Assembly

In addition to sheet metal and machining, we offer additional services for mechanical assembly, including:

- Screws
- Rivets
- Hi-locks
- Welding
- Adhesive Bonding
- Press Fit & Crimping
- Packaging optimized for next-level integration



Metal Finishing & Paint

- MIL-DTL-5541 automated chemical conversion coating line
- Class 3 RoHS clear chem finish (most common)
- Part handling up to 8 ft x 5 ft x 1.5 ft thick
- Max part handling weight of 250 lb
- Fully automated process chemistry monitoring and time in tank controls
- Qualified on 2000, 5000, 6000, and 7000 series aluminum alloys
- NADCAP certification



Sheet Punch & Forming

TRUMPF TruPunch CNC punch/shear presses with a full range of punch tooling numbering nearly 1,000 tool sets.

- Typical Materials: Aluminum, acrylics, Teflon™, and stainless steels
- Stamping Sheet Size: 4 ft x 6 ft 8 in
- Tolerance: +/- 0.002 in (0.05 mm)
- Max Thickness: 1/4 in (aluminum); 3/16 in (stainless steel)



Water Jet Cutting

The Z-2043 offers a high-versatility water jet cutting solution, which can accommodate sheets up to 12 ft in a wide variety of materials, including sheet metal, composites, foams, and more. This provides an attractive alternative to roughing operations using conventional machining centers and the ability to cut soft materials not suitable for conventional machining.



Testing & Field Services

We offer a variety of test kits, test facilities, and field support resources in support of our products. Contact us if you have special requirements or would like a customized test configuration tailored to your product and field support needs.

- Fiber optic test & inspection kits
- Product qualification & testing
- Vibration & shock testing
- Customer product training
- On-site technical support



Custom Overbraiding Services

Overbraiding of customer-supplied products, from simple hose to complex wiring harnesses with multiple breakouts.

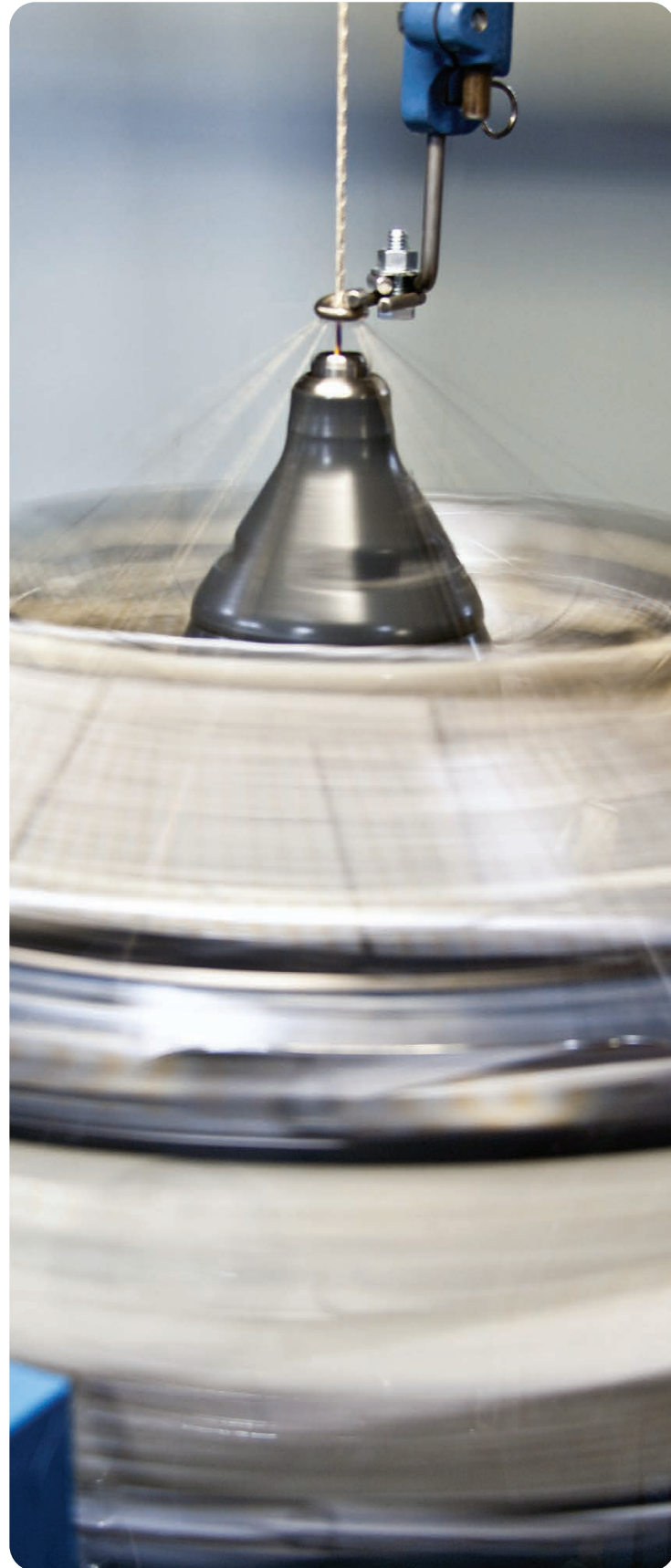
- High-temperature aircraft engine applications, both OEM and MRO
- AOG repairs of harness braiding with 24- to 48-hour turnaround
- FAA-certified repair station

Shielding and overbraiding products listed on pages 56-57.



Bobbin Winding

Complete bobbin winding capabilities with multiple ends for NEB and WW machines.



Contract Manufacturing

When you partner with Amphenol CIT, you're connected to a global manufacturer with diverse resources to manufacture your product at any scale required. Our build-to-print capabilities are strategically aligned to give you complete control over the design and product modification process. Inside our full-service fabrication facilities, we can manufacture custom components, discrete assemblies, or complete avionics systems kits from customer-supplied drawings or 3D models with product modifications you control.

Key Manufacturing Capabilities:

- Custom composite cables
- Cutting & marked wire kits
- Wire harnesses & cable bundles
- Custom overbraiding
- RF assembly & test
- Fiber optics
- Equipment racks
- Switch panels
- Electromechanical structures
- Aircraft modification kits
- Machining & additive manufacturing
- Micromachining & CNC milling
- PMA/EPA production

Manufacturing Advantages:

Contact Machining and Cold Heading

- One of two contact manufacturers in the world with cold heading capabilities
- Cost-effective

Selective Plating

- Highly efficient computerized plating line
- Pioneer in custom selective plating equipment
- Lower total cost for customer

Quality Systems

Our manufacturing locations are certified and committed to upholding the strict quality standards of:

- AS9100
- ISO 9001
- ISO 13485
- ISO 14001
- ISO 50001
- UL
- ITAR
- MIL Spec/SAE
- RoHS
- FDA

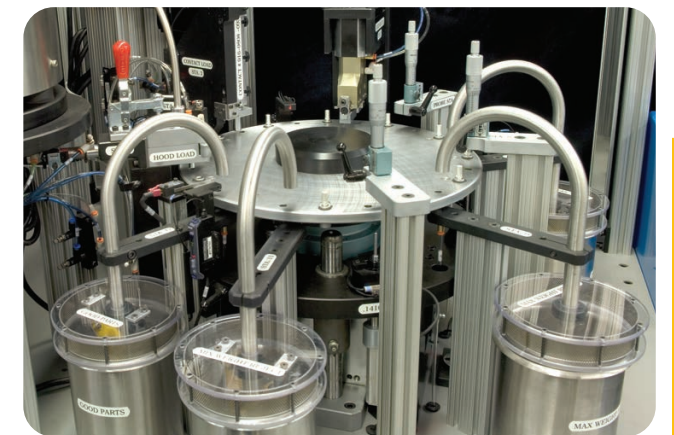
**Visit Amphenol-CIT.com for individual certifications per manufacturing location.*

Molding & Potting

- We offer a complete line of molding and potting services to support and complement the manufacturing of our customers' requirements
- With design, tooling equipment, and testing, we can execute the most cost-effective and timely solutions for all sizes and shapes of plastic components, enclosures, and strain relief for harsh environment requirements
- We validate the designs and use 3D systems to generate a concept for customer approval using the Solid Works, Mold Flow, and Microwave Studio

5-Axis Machining

- Efficiently fabricate complicated structural components from 3D models
- We can design it for you or use customer 3D models



We Are Interconnect.

At Amphenol CIT, we do more than make interconnect technologies for a spectrum of industries. We deliver the critical connections and products that make amazing performances possible.

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.



The Continuous Improvement System (CIS) serves as the driving force behind our sustained growth, excellence, and longevity. It forms the foundation of our commitment to continual enhancement and sustainability. Through CIS, we steer our strategic evolution, achieve annual cost efficiencies, and ensure alignment between business objectives and operational excellence.

At its core, CIS functions as our universal compass, fostering a shared language and transparent methodologies. It provides the framework to set the course for progress and equips us with actionable metrics to measure our journey. With CIS, we manage improvement systematically, ensuring timely resolution of challenges and nurturing a culture of stewardship and sustainability.

In essence, CIS embodies our ethos of relentless improvement, offering the structure and tools necessary to navigate the complexities of our evolving landscape while remaining true to our core values.

Key Continuous Improvement Efforts

- » Employee Engagement
- » Policy Deployment
- » Value Transition Planning
- » Managing for Daily Improvement
- » Enterprise-wide Lean Sigma
- » Variation Reduction
- » Supply Chain Excellence
- » Engineering Excellence

Key Sustainability Efforts

- » **Sustainability Initiatives:** Targeting waste and emission reductions for Amphenol CIT, customers, and the environment.
- » **ISO 14001 Compliance:** Adhering to environmental standards, identifying and reducing waste and emissions.
- » **ISO 50001 Energy Management:** Optimizing energy usage, transitioning to greener energy sources, and identifying energy conservation measures.
- » **Reduce, Recycle, Reuse:** Implementing strategies to minimize waste and promote resource conservation.



Our Family of Brands



FACILITIES CERTIFICATIONS



Visit our website to view certifications listed by site.

HEADQUARTERS

100 Tensolite Drive
St. Augustine, FL 32092
United States
1 (800) 458-9960

PRODUCT CERTIFICATIONS



Contact us directly for products engineered to your specific compliance needs.

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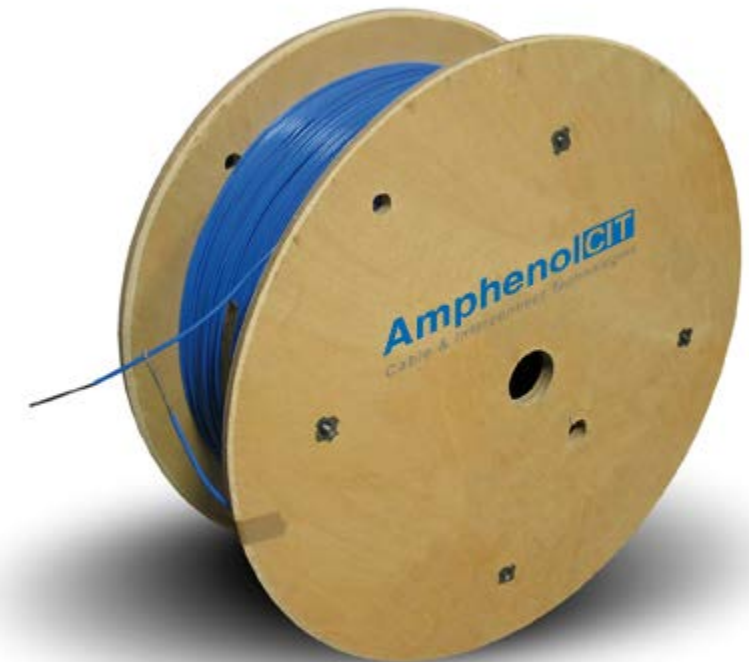
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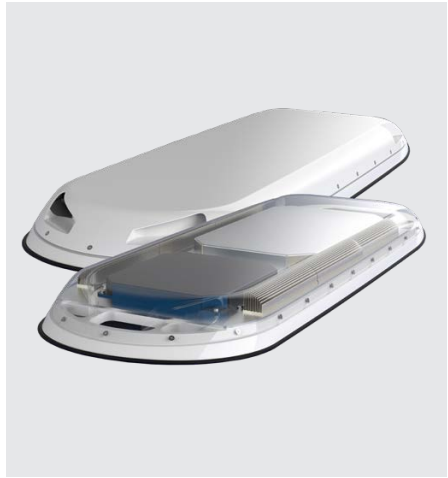


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