

# PRODUCTS & SERVICES OFFERINGS



## A Complete Listing of:

- Assemblies
- Connectors
- Contacts
- Sensors
- Structures
- Systems
- Wire & Cable
- Services & Capabilities

**Amphenol** | **CIT**  
Cable & Interconnect Technologies

## ASSEMBLIES

### Data Bus, Power, & Video Assemblies

Coax Digital Video

Display Port

DVI

Ethernet

» CAT6A

» CAT7

HDMI

High-Speed Data

» Octax® (10 GB)

USB

### Fiber Optic Assemblies

Multi-Mode

Single-Mode

Multi-Fiber Assemblies & Breakouts

### Gen-Z High-Speed Cable Assemblies

Right-Angle Board-Side Connectors

Edge Mount Board-Side Connectors

*Support PCIe Gen 5 Speeds &*

*SaaS, SATA, SATAe, & NVMe Protocol Signals*

### Harness Assemblies

Straightforward Configurations

Highly Complex Multi-branch Configurations

### High-Density Coaxial Assemblies

CoreHC™ Ganged Interconnect System

CoreGD™ Ganged Interconnect System

HDSI® (High-Density Shielded Interconnects)

### Power Feeder Assemblies

12 AWG to 4/0

### RF/Microwave Assemblies

Avionics RF Coaxial

» Customized Sets

» Low PIM

» TCAS Cable Sets

Harness Products

Low-Loss RF Jumpers

M-FLEX®

Semi-Flex® Conformable

Semi-Rigid

Space-Grade

UTiFLEX® Flexible Microwave

» Ultra-Low-Loss to 70 GHz & Above

UTiPHASE™ Phase-Linear Microwave

WorkHorse® Test Assemblies

### Test & Measurement Products

Board-to-Board Interposer Solutions

High-Frequency Flex Circuit Probes

Passive Probes (*UL & IEC Certified*)

» 1,000 V CAT III

» 600 V CAT IV

SecureThread™ Interconnect System

## CONNECTORS

### Backshells

Compact D-Sub

Composite

EN4165/BACC65

Exit Angles:

» 45°

» 90°

» Straight

Universal Spring Latches

### Data Bus Connectors

Octax®

» 38999 (Sizes 11, 19, 25)

» ARINC 600

» EN4165

» Flange-Mount Receptacle

» Hybrid

» LT

» Plug

» Single Contact

» Socket (With & Without Latch)

» Solo

» Straight PCB (Flange Mount)

Octax-to-Quadax Adapter

### Digital Connectors

AltaVel® Open Pin Field Interconnect System

Card Edge Connector System

*Support 25 Gbps Data Rate*

### EMI Protection & TVS Connectors

Circular Filtered

» MIL-DTL-26482

» MIL-DTL-38999 Series I - IV

D-Sub & Micro-D Filtered

EPX Filtered

Rectangular Filtered

TVS (Transient Voltage Suppression)

### RF/Microwave Connectors

Avionics RF

» ARINC

» BNC

» HN

» SMA

» Specialty

» TNC

» Type C

» Type N

Microwave Adapters

» Between-Series Straight

» Right-Angle & Straight In-Series

Phase-Adjustable Cable Connectors

Phase Adjusters

» Block-Style

» Phase-Adjustable Adapters

Precision Board-Mount

» Solder-Mount

• 1.85 mm

• 2.4 mm

• 2.92 mm

• 3.5 mm

*Vertical Mount and Edge Launch (Standard and Surface-Mount Pick & Place)*

» Solderless/Field-Replaceable

• 1.00 mm

• 1.35 mm

• 1.85 mm

• 2.4 mm

• 2.92 mm

• 3.5 mm

*Vertical Mount (CPW & Strip-Line), Edge Launch (Flange Mount, 30° Angled, Narrow Body, & Narrow Body Flange Mount)*

Push-On

» SMP

» SMP-L with Secure-Lok™

» SMPM

» SMPS

» TMP®

» XMP™

Swept/Radius Right-Angle

Thread-On

» BNC

» EPSMA

» K

» SMA

» SSMA

» TNC

» Type N

### Specialty Connectors

ARINC

» 404 Harsh Environment

» 600 Harsh Environment

CB/CBX All Plastic

CBC Galley

CLP/CLPP Circular

CQ

Grounding Blocks

Terminal Lugs

## CONTACTS

Coaxial

Custom Designed

Signal & Power

» Crimp

» PC Tail

» Solder Cup

» Wire Wrap

Thermocouple

*Approvals for AS39029, EN3155, & BACC47*

## SENSORS

Capacitive

Eddy Current

Label

Machine Tool

Fast Steering Mirror

## STRUCTURES

### Antenna Mounts & Accessories

Antenna Doubler & Adapter Plates  
Cable Feed Thru Assemblies

### Avionics Enclosures

#### ARINC

- » 404A
- » 600
- » 628
- » 836A

Custom Engineered Enclosures

### Racks & Shelves

#### 19" Racks

- » Customizable for Special Mission Needs

#### Equipment Racks & Shelves

- » Aluminum
- » Composite

Overhead Stowage Bin Racks & Structures

### Trays

#### ABS

- » 1699
- » 1876

#### ARINC

- » 404A
- » 600
- » 836A
- » Lightweight

Custom Trays & Mounts

### Tray Accessories

Adjustable Keeper with Mounting Block  
Hold-Downs

- » Advanced Thumbscrew
- » Insertion-Extraction
- » Military-Style

#### Air Filtration Systems

- » Negative Pressure
- » Positive Pressure

#### Stand-Offs

Temperature & Cooling Flow Sensors

## SYSTEMS

### Automatic Dependent Surveillance Broadcast (ADS-B)

### EFB Systems

eZMount® Tablet Cradle (for iPad®)

eZMount® EFB Mounting Solutions

- » 3" Arm
- » 5" Arm
- » Pivot
- » Slider
- » Tilt

### Global Positioning System/Multi-Mode Receiver (GPS/MMR)

### In-Flight Entertainment & Connectivity

#### Kits:

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

### SATCOM

ARINC 791 Installations  
Thermal Management Solution (TMS) for  
ESA SATCOM Applications

## WIRE & CABLE

### Avionics RF Cables

#### ECS Avionics

- » 50 Ω Coaxial
- » 50 Ω Triaxial
- » 75 Ω Triaxial

#### BMS 13-65

### Composite Aerospace Wire

#### Seamless & Seamless-T™

- » AS22759/80-/92
- » AS22759/180-/192
- » NEMA WC 27500

#### Tufflite®

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

### MIL-SPEC Wire

AS22759 Wire (Fluoropolymer Insulated)  
MIL-C-17 (High-Performance Coaxial Cable)  
MIL-DTL-16878 Wire (NEMA HP3, HP4)  
MIL-DTL-25038 Wire (Fire-Resistant)  
MIL-DTL-81381 (Polyimide Insulated)  
NEMA WC 27500 Cable

### Commercial UL/CSA/BS Cable & Hookup Wire

### Industrial Wire & Cable

Polyimide Equipment Wire & Cable  
Thermocouple Cables

### Fiber Optic Cables

#### LITEflight®

- » EP
- » HD
- » HP
- » POF
- » TS

### Harsh Environment, Engine, & SWAMP Cables

#### Thermazone™ Fire-Resistant Cables

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

#### EFGLAS Equipment Wire & Cable

ESW Firezone Cables

### High-Performance Coaxial Cable

#### MaxForm®

#### M-FLEX®

#### MIL-DTL-17

#### Semi-Flex®

Semi-Rigid & Precision-Fabricated Semi-Rigid

#### UTIFLEX®

#### UTIPHASE™

### High-Speed Digital & Data Cables

#### Gigabit Series Ethernet Cables

- » Gigabit-10HP™
- » Gigabit-Flex™
- » Gigabit-Plus™
- » Gigabit-STP

#### Maxflite™ Series Cables

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

#### NETflight® Series Ethernet Cables

- » 100 Base-T
  - Shielded Quad
  - High-Performance Quad
  - Lightweight Quad
- Single Twisted Pair
- Shielded Twisted Pair

### High-Voltage Wire & Cable

#### Composite

#### Extruded

Ultra-Flexible Shielded Composite

### Shielding & Overbraiding Products

#### ARACON®

- » Lightweight Fibers
- » Lightweight Braids

## Metallic Braids

### Non-Metallic Braids

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

## Specialty Cables

### Coil Cords

### Low-Noise Cables

## Cable Assembly & Repair Products

### Portable Coaxial Cable Stripper Kit

# SERVICES & CAPABILITIES

## 5-Axis Machining

### Airworthiness Certification Services

#### OEM Aircraft Parts & Assemblies

#### PMA Manufacturing

- » FAA PMA/EASA Part 21 POA

#### STC Certification

- » FAA/EASA/Part 21 DOA

IAMA Member

## Bobbin Winding

### Contract Manufacturing

#### Key Manufacturing Advantages

- » 5-Axis Machining
- » Contact Machining & Cold Heading
- » Molding & Potting
- » Selective Plating
- » Quality Systems
  - AS9100
  - ISO 9001
  - ISO 13485
  - ISO 14001
  - UL
  - ITAR
  - MIL Spec/SAE
  - RoHS
  - FDA

## Key Manufacturing Capabilities

- » Aircraft Modification Kits
- » Electromechanical Structures
- » Equipment Racks
- » Fiber Optics
- » Custom Composite Cables
- » Custom Overbraiding
- » Cutting & Marked Wire Kits
- » Machining & Additive Manufacturing
- » Micro-machining & CNC Milling
- » PMA/EPA Production
- » RF Assembly & Test
- » Switch Panels
- » Wire Harnesses & Cable Bundles

## Custom Overbraiding Services

### AOG Repairs of Harness Braiding

- » 24-48 Hr Turnaround

### FAA-Certified Repair Station

#### High-Temp Aircraft Engine Applications

- » OEM

- » MRO

## Engineering & Design

### Airflow Cooling & Analysis

### Custom Component Design

### Electrical & Structural Design

### Field Installation Surveying

### Fire Detection & Containment

### Stress Analysis

### Qualification Testing

### Regulatory Compliance

- » SFAR 88

- » DO-160

- » FAR

FAA STC Design Approval Holder

FAA PMA Approved

On-Site FAA DERs, DARs, & DMIRs

## Laser Marking & Engraving

## Mechanical Assembly

### Adhesive Bonding

### Hi-Locks

### Packaging for Next-Level Integration

### Press Fit & Crimping

### Rivets

### Screws

### Welding

## Medical Industry Services

### Design & Development

- » Custom Component Engineering
- » Custom Cable Assembly Development
- » Full-Service Product Development
- » Quality & Regulatory Management

## Components

- » Bearings
- » Flexible Printed Circuits
- » Injection Molding
- » Laser Micro-machining
- » Metals Machining
- » Thermoforming
- » Thin Film Deposition (Sputter)

## Assembly

- » Cable Assembly
- » Electro-Mechanical Assembly
- » Mechanical Assembly
- » Micro Assembly

## Finished Device

- » Global Supply Chain Management
- » Packaging
- » Sterilization Management

## Metal Finishing & Paint

### Automated Chemical Conversion Coating Line

- » MIL-DTL-5541

### Clear Chem Finish

- » Class 3 RoHS

### Fully Automated Process Chemistry Monitoring & Time in Tank Controls

### Max Part Handling:

- » 8 ft x 5 ft x 1.5 ft (Thickness)
- » 250 lb (Weight)

### Qualified on Aluminum Alloys Series

- » 2000

- » 5000

- » 6000

- » 7000

### NADCAP Certification

## Sheet Punching & Forming

### Typical Materials:

- » Acrylics
- » Aluminum (Max Thickness 1/4 in.)
- » Stainless Steels (Max Thickness 3/16 in.)
- » Teflon™

### Stamping Sheet Size:

- » 4 ft x 6 ft 8 in

### Tolerance:

- » +/- 0.002 in (0.05 mm)

## Testing & Field Services

### Customer Product Training

### Fiber Optic Test & Inspection Kits

### On-Site Technical Support

### Product Qualification & Testing

### Vibration & Shock Testing

## Water Jet Cutting

# Let's Connect!



@AmphenolCIT



# 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.



## 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

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 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



# 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.



## 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.*



# Amphenol **CIT**

Cable & Interconnect Technologies

 [www.Amphenol-CIT.com](http://www.Amphenol-CIT.com)

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SS-10089-052824

