

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-Quadrax 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 IIK, 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

UTFLEX®

UTIPHASE™

High-Speed Digital & Data Cables

Gigabit Series Ethernet Cables

- » Gigabit-10HP™
- » Gigabit-Flexx™
- » 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.



AmphenolCIT

Cable & Interconnect Technologies

 www.Amphenol-CIT.com

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