

Enabling the Connected Aircraft Interconnect System Solutions for Military and Commercial Aerospace

The Connected Aircraft



Empower Engineers to Solve Problems, Moving the World Forward.

Designing the Connected Aircraft for Smarter, Faster Connectivity

Connect It ... Sense It ... Make it Happen

Work with TE Connectivity (TE) to help solve your connectivity and design challenges. By partnering with your engineering team early in the design review process, together we'll align the full power of TE's thought leadership and subject matter expertise to your project goals. We'll help you optimize your system architecture design with solutions incorporating best-in-class products that will help you achieve:

Size and Weight Reduction

- Lightweight Materials, Including High-Performance Composites
- Miniaturization
- Increased Design Flexibility

Complexity Reduction

• Integrated Subassemblies

Signal Integrity

- Increased Bandwidth
- Electromagnetic Interference (EMI) Protection
- Active and Passive Fiber Optics

Reliability

- Lightning Protection
- Clean, Reliable Power
- Mechanical and Environmental Robustness

Power Distribution and Control

Sensor Solutions

IFE and Cabin Systems



Space and Weight-Saving Technology for Cabin Interiors and IFE

High-speed copper and fiber bandwidth supports in-flight entertainment distribution and control, web access, automated galley systems, and networking. Our interconnection solutions are qualified to standards such as ARINC 664, 809, 810, and 832 and EN4165 and GAIN and 4GCN. Fiber optics and size-reduced interconnects from TE help you achieve the right combination of performance, flexibility and Internet of Things (IoT) capabilities, while meeting your size, weight and power goals.

TE Solutions for Cabin Interiors and IFE

Connectors

- DEUTSCH EN4165 and ARINC 809 Connectors
- CeeLok FAS-X Connectors
- High-Speed Fiber-Optic Connectors
- Galley Insert (GAIN) Connectors

Wire and Cable

- Cat 6a High-Speed Copper Cables
- Custom Multicore Cables
- · Coaxial, Triaxial, and Quadraxial Cable
- Fiber Optic Cable

Networking

- CANbus Networking
- WiFi Connection Readiness

Sensors



DEUTSCH DMC-M Modular Connectors



DEUTSCH 369 Series Connectors



Raychem Cat 6a Cable

Advanced Avionics



TE Performance on Board:

Distributed, Integrated Modular Avionics Packaging . . . Miniaturized

To ensure optimal monitoring and control of all flight systems, TE supports high-performance avionics with rugged high-speed backplane connectors for embedded computing. Copper and fiber I/O connectivity supports a wide range of speeds, protocols, and transmission distances.

Avionics Packaging Size Reduced 40%

To help enable distributed avionics systems, our ARINC 836 standardized MiniMRP packaging can help save weight, reduce package size by 40%, and help increase design flexibility by putting intelligence closer to the action.

Solutions for Avionics

Connectors

- Next-Generation ARINC 600 Connectors
- DEUTSCH DMC-M Connectors
- Fortis Zd Connectors
- CeeLok FAS-T and CeeLok FAS-X 10 GbE Connectors
- Fiber Optic I/O Connectors
- Microminiature and Nanominiature Connectors

Relays and Circuit Protection

- Signal-Level and Solid-State Relays
- Power Control Assemblies

Wire and Cable

- Cat 6a High-Speed Copper Cable
- Coaxial, Triaxial, Quadraxial Cable
- High-Frequency Filtering-Effect Wire
- Fiber Optic Cable



MiniMRP Modular Distributed Avionics



ARINC 600 Connectors



Composite Enclosures

Engines and Power Distribution



Rugged, Repeatable Power Management ... Survivability in Harsh Environments

Designed for High Vibration and Wide Temperature Ranges

TE has extensive expertise in developing high-reliability connectors, wire and cable, and power distribution solutions that and provides support to help stand up to the stresses of flight.

Solutions for Wings, Landing Gear, and Engines

Connectors

- Hermetic Connectors
- High-Temperature, Vibration-Resistant Circular Connectors
- POLAMCO Connectors and Backshells

Contactors

- HARTMAN Primary Power Lightweight Contactors
- KILOVAC High Voltage Contactors
- Smart Sensing ELCU Contactors
- Integrated Power Distribution Units
- HARTMAN K-Series Lightweight Contactors

Harnessing and Accessories

- Raychem System 200 Harnessing Components
- Raychem SolderSleeve Grounding Terminations
- Raychem SHF-260 Power Cables
- COPALUM Lite Terminals and Splices
- Custom Power Distribution Panels
- Raychem SPEC 55 Wire and Cable
- DEUTSCH Firewall Feedthroughs

Sensors



DEUTSCH 983 Series Engine Connectors - EN2997



HARTMAN K-Series Lightweight AC and DC Contactors



Solid State Controller

Interconnections and Harnessing



Harness the Expertise of TE for Advanced Capabilities

Reduced Weight Increases Fuel Efficiency

Significant space and weight savings are possible with our thin-wall cables, rectangular and circular composite connectors, and optical interconnects. Partnering with TE enables airframe design engineers to solve for grounding and EMI protection, and build out a tailored Current Return Network (CRN) solution for traditional and composite airframes.

Harnessing, Grounding and Value Add Solutions

Connectors

- Power Connectors
- Vibration-Resistant Connectors
- FMJ Series Junction Blocks
- CTJ Series Terminal Junction Modules
- COPALUM, PIDG and STRATO-THERM Terminations and Splices

Harnessing

- HARNWARE Harness Design Software
- Harsh-Environment Harnesses
- Heat Shrinkable Components for Sealed Harness Assemblies
- Bulkhead Feedthroughs
- Shield Terminations
- Raychem INSTALITE Braid
- Raychem SolderSleeve Grounding Terminations
- DMB Series Grounding Modules

Wire, Cable and Accessories

- High-Temperature and High-Performance Wire and Cable
- Controlled Electrical Cables
- Sensors, Monitors, and Ground Fault Interrupters

EWIS ... Aerospace Industry Standards Qualified ... Harness Solutions



Flexible Modular Cable Management



Sealed Harness



INSTALITE Lightweight Braid

LET'S CONNECT

We make it easy to connect with our experts and are ready to provide all the support you need. Just call your local support number or visit www.te.com to chat with a Product Information Specialist.

Technical Support

te.com/support-center

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Consult TE for the latest dimensions and design specifications.

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