FAST TRACK TO THE CONNECTED AIRCRAFT

SENSE IT. CONNECT IT. MAKE IT HAPPEN.
Designing the Connected Aircraft for Smarter, Faster Connectivity

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

TE Connectivity (TE) designs and builds electronic interconnect solutions with components, technology, and know-how that help get your product or application to market faster—applications that are critical to the operation of today’s connected aircraft. Designed-in technology that optimizes power utilization while saving space and weight. Think TE for dependable performance under extreme temperatures, vibration, and chemical exposure.

Size and Weight Reduction
• Lightweight Materials, Including High-Performance Composites
• Miniaturization
• Increased Design Flexibility

Complexity Reduction
• Integrated Subassemblies

Signal Integrity
• Increased Speed and 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
• High Reliability, Harsh Environment Sensors; AS9100 Certified
• Force, Temperature, Potentiometric Position Sensors for Commercial Aerospace
• Energy Saving: Satellite Panel and Batteries ESA / NASA Temperature Sensor
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, 800P2, 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 800P2 Connectors
- CeeLok FAS-X Connectors
- High-Speed Fiber-Optic Connectors
- 369 Connector

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
- Galley and HVAC Temperature Sensors
- Cockpit Instruments High Reliability Potentiometer-Position Sensor
- Cockpit Pilot Control and Force Sensor Feedback (Pitch Yaw, Roll, Active Joystick)
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 836A 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
• Micro miniature and Nan miniature 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

Sensor
• Compact Multi Channel Force Sensor That Can Be Integrated into Active Joystick
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
collectors, wire and cable, and power distribution
solutions, contactors and relays, that support commercial
and military requirements.

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 SS Wire and Cable
• DEUTSCH Firewall Feedthroughs

Sensors
• High Thermocouple Sensor for Exhaust Gas Temperature
• Rotor Track and Balance Accelerometers
• Health and Usage Monitoring Systems (HUMS) Accelerometers

DEUTSCH 983 Series
Engine Connectors - EN2997

HARTMAN K-Series Lightweight
AC and DC Contactors

Solid State Controller

Thermalcouple Sensor
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
- PMJ 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 and Composite Cable Clamps
- Sensors, Monitors, and Ground Fault Interrupters

EWIS . . . Aerospace Industry Standards Qualified . . . Harness Solutions
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/industrial to chat with a Product Information Specialist.

Technical Support
te.com/support-center

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