IFE AND CABIN SYSTEMS

ENABLING THE CONNECTED PASSENGER

Innovative Space and Weight-Saving Connectivity with the Bandwidth You Need for Passenger Convenience and Crew Efficiency

Enable the Connected Passenger

Size and Weight Reduction

Save space, reduce weight, and increase reliability easily with our broad range of connectors. Each is designed to install faster and easier, perform better, and increase in-cabin capabilities from seat to galley for greater passenger convenience and comfort and crew efficiency.

Helping You Reduce Costs

Reduce overall costs by working with TE Connectivity (TE). From shorter lead times and just-in-time delivery, we can make program planning more efficient. Our products, too, are designed for lower costs, higher performance, and easier installation. Integrated solutions—such as cable harnesses, power distribution panels, and composite enclosures—decrease installation costs by giving you plug-and-go products built and tested to the highest standards.

High-Speed Bandwidth Management

Give passengers the power and convenience of high-speed networks—from flexible and capable in-flight entertainment systems to high-speed Internet access. We offer a range of copper and optical solutions for reliable Gigabit Ethernet—and even 10G Ethernet for high-performance backbones. With interconnection solutions based on BAC, EN and ARINC standards and GbE standards, we'll help you eliminate bottlenecks and give passengers access to the convenience of being connected.

Connecting Passengers to Convenience

- Passenger Service and Control Units
- Lighting and Window Dimming
- Galley and Emergency Systems
- IFE Distribution and Control
- Screen and Connectivity Ports
- Seat Power and Actuation

TE IFE and Cabin Solutions . . . Lighten the Load . . . Save Space . . . Boost Performance

CONNECTORS

369 Series Connectors BACC65
Low-Cost, Space-Saving Design
• Lightweight composite shells
• 3, 6, or 9 positions

Reliable
• Fully sealed cable and mating interface
• Positive button latching with audible click

Safer
• Aerospace-grade low-smoke and low toxicity materials

DEUTSCH DMC-MD Shielded Cable Clamp

Flexible
• Signal, power, and twinax contacts
• Blindmateable

Durable
• 500-mating-cycle durability

DEUTSCH DMC-M Series Connectors EN4165, BACC65, ARINC 809

Save Weight and Space
• Robust composite shell
• Excellent EMI performance

Versatile
• Single-module and multi-module configurations
• Wide range of modules for signal, power and optics

High-Speed Modules

High Speed
• Higher data rates to 10 Gb/s with EN4165-compatible inserts
• Signals and power in a single module

Space and Weight Savings
• Compact, lightweight design

IFE and Cabin Systems

CONNECTORS

AS85049 Backshells and Band Straps

Rugged Reliability
- High reliability under vibration
- Side entry for easier installation and repair
- Corrosion-resistant steel bands

Flexible Choices
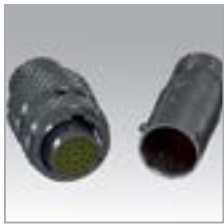- Three strap widths
- Straight, 45°, and 90° backshells

DEUTSCH Micro-D Series Connectors MIL-DTL-83513

Space and Weight Savings
- High-density microminiature connectors
- Aluminum shells plated in nickel or cadmium

Flexible
- Available prewired or with separate crimp contacts

DEUTSCH Wildcat 38999 Series Connectors

High Density
- Higher density than equivalent 38999 Series III connectors
- Five shell sizes, up to 118 contacts

Reliability
- Extreme temperature, vibration, and corrosion resistance
- Accepts standard 38999 backshells and accessories

ARINC 600 Connectors

Versatile I/O for LRUs and LRMs
- Signal, Quadrax, RF, power, and optical
- Blindmate
- Rugged, high pin count

Weight Savings
- Next-generation ARINC 600 receptacle is up to 10% lighter

CeeLok FAS-X Connectors

Fast and Quiet
- Supports 10G Ethernet
- Design optimized for signal integrity with excellent impedance matching and virtually no crosstalk

Compatible
- Uses standard crimp AS39029 contacts
- Allows fast field termination and repair

DEUTSCH ABC In-Line Series Connectors

Weight and Space Savings
- Strong, lightweight composite
- Stackable and panel mountable

Sealed for Reliability
- Interfacial and wire seals
- 24 to 12 AWG wire range

GAIN Galley Connectors ARINC 800P2

Flexible
- Signal, power, and twinax contacts
- Blindmateable

Durable
- 500-mating-cycle durability

DEUTSCH Wildcat Micro Series Connectors

For Size- and Weight-Critical Applications
- 3, 5, or 9 contacts in two shell sizes
- Lightweight aluminum shells
- Bayonet or threaded coupling

IFE and Cabin Systems

FIBER OPTICS

RF-over-Fiber Modules

Capable
- DFB, DWDM, or CWDM lasers
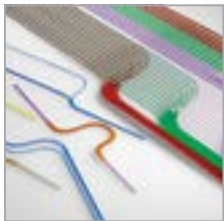- Ultra wideband: 1 kHz to 4.2 GHz

Versatile
- Compact board-mount modules: only 65 x 40 x 16 mm
- Plug-in modules for our SuperChassis platform
- Single transmitter or receiver converters

VITA 66 Optical Modules
- Allows LRUs and LRMs to be disconnected at the backplane
- Optical modules support MT, ARINC 801 and expanded beam contacts

Optical Flex Circuits

Modular
- Customizable design to specific substrate size, shape and packaging
- Preselected breakout positions for optimum routing

Rugged
- Thin Film encapsulated fibers for enhanced protection
- Allows for High density packaging

IFE and Cabin Systems

WIRE, CABLES AND CABLE ASSEMBLIES

High-Speed Copper Cable

Rugged Choices
- Material choices to match application requirements
- Shielded and unshielded
- Low-smoke, zero-halogen (LSZH) versions to help increase safety

High-Speed Protocols
- Configurations to support various Ethernet, Quadrax, IEEE 1394, USB, etc.

Raychem Cheminax Coaxial Cable

High Performance
- Lightweight, small size, highly flexible
- Low capacitance and attenuation
- High velocity of propagation

Adaptable
- Suitable for demanding video and RF applications

Fiber Optic Cable ARINC 802

Versatile
- Single mode and multimode fibers
- Loose-tube and tight-buffer constructions

Flight Ready
- Low smoke, low toxicity materials
- Meet FAR 25 requirements
- Usable in pressurized or unpressurized spaces
- Custom assemblies

Harnessing Components

Hazard Matched
- Complete product suites matched to application needs
- Tubing molded parts, adhesives, backshells, and insulation/jacketing materials
- Flame-retarded, flame-resistant, and LSZH solutions

Space and Weight Savings
- Thin-wall insulation and composite materials

Raychem Multicore Cables

Light Weight and Highly Durable
- Industry-standard components
- Designed to meet your specific application needs
- Signal, power, RF, high-speed digital, and optical conductors

RF Cable Assemblies

Comprehensive Selection
- Wide range of standard, subminiature, and microminiature interfaces and frequencies
- Ergonomic designs for easy connection/disconnection
- Qualified to MIL-PRF-39012, MIL-DTL-83517, MIL-PRF-55339

Raychem Cat 5e Cable

Versatile
- Harness component system compatibility
- Zero halogen jackets available for low smoke and low toxicity requirements
- High temperature fluoropolymers offer temperature ranges from -65°C to +200°C

Performance Driven
- Tested in accordance with ANSI/TIA-568-C.2
- Qualified to MIL-DTL-24643

Raychem CANbus Cable

Capable
- High performance, 120Ω twisted pair
- Shielded and unshielded variations available
- Custom variations available upon request

Rugged
- Constructions available meeting SAE J1939 and SAE J1939-11 and -15 requirements
- Flexible design/abrasion resistant

Space and Weight Saving
- 18-26 AWG available

IFE and Cabin Systems

CUSTOM INTEGRATED SOLUTIONS

MiniMRP Avionics Packaging

Modular
- Designed for distributed architectures
- Compatible with EN4165 modules
- High level of design flexibility

Compact, Light Weight
- Aluminum or composite
- Overall weight and space savings

CONNECT WITH US

We make it easy to connect with our experts and are ready to provide all the support you need.
Visit **te.com/support** to chat with a Product Information Specialist.

QUALITY STARTS WITH THE RIGHT APPLICATION TOOLING

Creating a quality crimp connection is essential to delivering high performance and reliability in extreme environments. From low to high volume wire processing, TE has you covered with a full range of application tooling and a global field service team.

- **View all application tooling**

- **Connect with our experts to find the right tool for your application**

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te.com/IFE

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