



# 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 Components . . . TE Technology . . . TE Know-how . . .**

AMP | AGASTAT | CII | HARTMAN | KILOVAC | MICRODOT | NANONICS | POLAMCO | Raychem | Rochester | DEUTSCH  
SEACON Phoenix | LL ROWE | Phoenix Optix | AFP | SEACON

Get your product to market faster with a smarter, better solution.



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



## CONNECTORS



**DEUTSCH 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



**ARINC 404 and 600 Connectors**

**Versatile I/O for LRUs and LRM**s

- Signal, Quadrax, RF, power, and optical
- Blindmate
- Rugged, high pin count

**Weight Savings**

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



**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



**Raychem 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



### Fiber Optic Connectors

#### Comprehensive Choices

- Rectangular or circular formats
- Precision ceramic ferrule, expanded beam, or MT interfaces

#### High Performance

- Low insertion loss and return loss



**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

### ACTIVE 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



**MCUBE Transceivers**

#### High Performance

- Performance to 3 Gb/s

#### Space-Saving Size

- Miniature cube
- Horizontal or vertical mount

#### Versatile Options

- Fabry-Perot lasers for discrete single channel per fiber
- Distributed feedback CWDM lasers for multiplexing up to 18 channels per fiber



## 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

**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

## CUSTOM INTEGRATED SOLUTIONS

**MiniMRP ARINC 836****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

**Antennas****Convenient**

- Low-profile conformal designs
- Support for wide variety of protocols

**Cost Effective**

- Can be embedded in composite enclosures

**Composite Enclosures****Weight-Saving Rugged Performance**

- Light weight – up to 40% lighter than aluminum
- Extremely rugged and corrosion resistant

**Customizable**

- Conductive composites and plating options for grounding/EMI shielding
- Highly customizable with integrated wire traces, antennas, and connectors

**Composite ARINC 600 Tray****More Choice**

- Standard sizes and customizable features available
- Lightweight hold-downs

## 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](http://www.te.com/industrial) to chat with a Product Information Specialist.

### Technical Support

[te.com/support-center](http://te.com/support-center)

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EMEA/South Africa	+800 0440 5100	Australia	+61 2 9554 2695
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Consult TE for the latest dimensions and design specifications.

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