DEUTSCH 369 Series Connectors

High-Reliability, Lightweight, Compact Connectors Suited to Harsh Aerospace Environments

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DEUTSCH 369 Series Inline Connectors
High-Reliability, Lightweight, Compact Connectors

DEUTSCH 369 series connectors from TE Connectivity (TE) have been designed to meet today’s tightening industry regulations and Electrical Wiring Interconnect Systems (EWIS) best practices. Based on EN4165/ARINC 809 connectors, the lightweight, compact 369 series connectors, available in 3, 6, and 9 positions standard, are suited for applications where fewer contacts are needed in each connector and shielding is unnecessary.

Easy to Use
Installation and maintenance of cabling is simple, quick, and reliable with a range of individually color-coded keying options. Each mated half of the connector can be configured with either male or female contacts, doubling the keying configurations available and electrically protecting contacts on the powered-side of a system.

The connectors’ rectangular shape permits space-efficient stacking, while cable ties allow versatile mounting without the need for additional fasteners. The scoop-proof interface is particularly suitable for blind-mating or low visibility conditions. A button-latching mechanism secures the mated connectors.

Sealed and Safe
The connectors are fully sealed for use in areas with high levels of moisture. High-performance composite materials help meet the low smoke, toxicity and flammability requirements of the aerospace industry.

Ideal for Cabin Applications
The 369 series connectors are suitable for commercial aerospace cabin applications, such as:
• Cabin lighting
• Oxygen mask systems
• Galley systems
• Seat actuation systems

The connectors also provide a solution for harsh environment applications, such as UAVs and commercial and military helicopter wiring systems.

Versatile and Compact

BACC QUALIFIED
• Qualified BACC65CP and BACC65CR

RUGGED
• Low smoke, toxicity and flammability
• Excellent temperature, vibration and fluid resistance
• Triple barrier wire seals
• Cork-in-bottle interface seal

WEIGHT AND SPACE SAVINGS
• Rectangular shape saves space
• Lightweight composite materials
• No fasteners to mount

ROBUST DESIGN
• Based on existing ARINC 809/EN4165
• AS39029/EN3155 contacts

CONVENIENT
• Color-coded keyed shells
• Scoop-proof interface for blindmating

SECURE
• Cable tie “locks out” the mating button

*See te.com for 3D models of our 369 family of products
**DEUTSCH 369 Series Inline Connectors**

**MECHANICAL CHARACTERISTICS**
- Operating Temperature: -55°C to +175°C
- Fluid Resistance: EN2591-315
- IP Rating: IP65
- Altitude/Humidity: RTCA DO-160
- Vibration: EN2591-403, Method B, Level E, 8 hr/axis
- Shock: EN2591-402, Method A, severity 100
- Smoke and Toxicity: FAR 25.853, Appendix F; ABD0031
- Flammability: FAR 25.853 Appendix F; EN2591-317
- Durability: 500 mating cycles

**MATERIALS**
- Shells, Insulators and Backshells: PEI/PEEK
- Contacts: Copper alloy, gold plated
- Seals: Fluorosilicone rubber
- Designed to meet the requirements of RoHS

**ELECTRICAL CHARACTERISTICS**
- Dielectric Withstanding Voltage: 1500 Vrms mated, <2 mA leakage
- Operating Current: 5 A

**Instruction Documents**
- 408-163008, 408-163009, 408-32194

**Keying Color Codes**
- Black
- Red
- Blue
- Green
- Yellow

- Normal
- A-Key
- B-Key
- C-Key
- D-Key

**Diagram**
- Straight Cable-Tie Backshell
- Socket (Female) Contacts
- Pin (Male) Contacts
- Receptacle
- Cavity Identification
- Cable Tie Slot 2.50 x 1.05 mm [0.98 x 0.041]
- Accessory or Boot Mounting Feature
- Rear Wire Seal
DEUTSCH 369 Series Inline Connectors

Plug Connector

Shell Size | Mass* 
---|---
3 | 1.90 g [0.067 oz]
6 | 2.40 g [0.085 oz]
9 | 3.00 g [0.105 oz]

*Mass based on plug less male contact configuration
Mass for 1 male contact = 0.073 g [0.0026 oz]
Recommended cable-tie: 2.5 mm [0.10"]

Receptacle

Shell Size | Mass* 
---|---
3 | 1.00 g [0.035 oz]
6 | 1.50 g [0.053 oz]
9 | 2.00 g [0.070 oz]

*Mass based on receptacle less female contact configuration
Mass for 1 female contact = 0.112 g [0.004 oz]
**DEUTSCH 369 Series Inline Connectors**

**Straight Cable-Tie Backshell**

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<th>Shell Size</th>
<th>Part No.</th>
<th>Mass</th>
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<td>D369-STB-9</td>
<td>0.28 g [0.99 oz]</td>
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**TE Part Numbering System**

- **FAMILY**: D369
- **SHELL TYPE**
  - P: Plug
  - R: Receptacle
- **SHELL SIZE**: 3, 6, 9
- **NUMBER OF CONTACTS**: 3, 6, 9
- **KEYING**: N: Normal
  - A, B, C, D
- **INSERT**
  - P: Pin
  - S: Socket
- **CONTACTS**: 0: Without Contacts
  - 1: With Size 22 Contacts
  - 3: With Size 20/22 Contacts

**BACC Part Numbering System**

- **FAMILY**: BACC65CP
  - Plug
- **FAMILY**: BACC65CR
  - Receptacle
- **SHELL SIZE**: 1: 3 Position
  - 2: 6 Position
  - 3: 9 Position
- **INSERT**
  - P: Pin
  - S: Socket
- **KEYING**: N: Normal
  - A, B, C, D

D369-P66-NPO = BACC65CP2PN

6-Position Plug for Pin (Male) Contacts, Normal Keying, Supplied without Contacts

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### ELECTRICAL CONTACTS

**Color Coding**
- Pin: AS39029/58
- Socket: AS39029/57

**Color Coding**
- Pin and Socket: EN3155

#### Contacts

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#### Tooling

**Insertion/Extraction Tool**
- M81963/14-01

**Crimp Tool**
- M22520/2-01
- TE Part No. 601966-1

**Crimp Positioners**
- Pin Contact
  - M22520/2-09
  - TE Part No. 601966-6
- Socket Contact
  - M22520/2-06
  - TE Part No. 601966-4

#### Cavity Identification

(Plug or Receptacle. Viewed from Rear of Connector)

- Using Pin (Male) Contacts
- Using Socket (Female) Contacts
## Part Numbers

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<th>No. of Positions</th>
<th>Housing Type</th>
<th>Insert</th>
<th>Part No. Without Contacts</th>
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* Replace * with 1 for Size 22 contacts and 3 for Size 20/22 contacts

369 Connectors Can Be Easily Secured with Cable Ties, Eliminating the Need for Additional Hardware or Cutouts
### DEUTSCH 369 Series Inline Connectors

#### Part Numbers

<table>
<thead>
<tr>
<th>No. of Positions</th>
<th>Housing Type</th>
<th>Insert</th>
<th>Part No. Without Contacts</th>
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</tbody>
</table>

* Replace * with 1 for Size 22 contacts and 3 for Size 20/22 contacts
DEUTSCH 369 Series Panel-Mount Connectors
High-Reliability, Lightweight, Compact Connectors

EASY TO INSTALL
• Integrated panel latches for mounting
• No fasteners required
• Simple push-in mounting
• One panel hole only

VERSATILE
• Replaceable gaskets accommodate various panel thicknesses and help prevent rattling
• Easily removed for maintenance

SPACE SAVING
• Compact design
• Tight mounting pitch of multiple connectors
• No additional space required for fasteners

WEIGHT SAVING
• Composite shells
• No additional fasteners required

RUGGED
• Low smoke, toxicity and flammability
• Excellent temperature, vibration and fluid resistance
• Triple barrier wire seals
• Cork-in-bottle interface seal

CONVENIENT
• Compatible with existing 369 series connectors
• Uses standard 369 wire strain-relief backshell
• Uses AS39029 Size 22 contacts

RELIABLE
• Positive button latching mechanism with audible click
• 100% scoop proof to minimize contact damage and allow blindmating

Fast, Easy Panel Mounting
DEUTSCH 369 series panel-mount connectors from TE Connectivity (TE), an extension to the existing 369 series product line, allow easy, fast mounting to an LRU (line-replaceable unit) panel, bracket, chassis, or frame. The integrated panel latches simply clip into a rectangular cut-out and require no additional fasteners or fixings. The latches also allow later removal from the panel. Suitable for multiple panel thicknesses, the connectors feature an anti-rattle panel gasket.

The connectors’ rectangular shape permits space-efficient stacking, and remain fully compatible with standard 369 series connectors.

A button-latching mechanism secures the mated connectors.

Sealed and Safe
The electrical interfaces are fully sealed using cork-in-bottle and triple wire seal technology for use in areas with high levels of moisture. High-performance composite materials help meet the low smoke, toxicity and flammability requirements of the aerospace industry.

Ideal for Cabin Applications
369 series connectors are particularly suitable for commercial aerospace cabin applications, such as:
• Lighting
• Seat wiring and actuation
• Passenger service units
• IFE (in-flight entertainment)
• Electronic window shutters
• Galley
MATERIALS
- Seals and Panel Gasket: Fluorosilicone
- Body and Insert: PEI
- Contacts: Copper alloy, gold plated

ELECTRICAL
- Insulation Resistance: ≥5000 MΩ
- Dielectric Withstand: 1500 Vrms, <2mA leakage
- Operating Current: 5 A

MECHANICAL/ENVIRONMENTAL
- Temperature Range: -55°C to +175°C
- IP Rating: IP65
- Altitude/Humidity: RTCA DO-160
- Vibration: EN2591-403, Method B, Level E, 8 hr/axis
- Shock: EN2591-402, Method A, Severity 100
- Durability: 500 mating cycles min.
- Fluid Resistance: EN2591-315
- Flammability, Smoke, Toxicity: FAR 25.853 Appendix F

Recommended Panel Cutout

For information on contacts, please refer to Contacts table on page 6.
DEUTSCH 369 Series
PCB-Mount Connectors
High-Reliability, Lightweight, Compact Connectors

COMPATIBLE
• Fully compatible with 369 connector family
• Choice of in-line or panel-mount versions
• Compatible with other connectors meeting Boeing BACC65CP/CR

SPACE SAVING
• Compact, high-density connectors
• Small PCB footprint
• Rectangular design enables close mounting pitch with adjacent connectors
• No fasteners required
• Eliminates flying leads for connectivity to board

EASY TO INSTALL
• Mechanically self-retaining during soldering of in-line connectors
• No additional solder fixtures required
• Easy washout for post-soldering cleaning

RELIABLE
• Mechanical location feature reduces mechanical stress on solder joints

APPLICATIONS
• Commercial and Business Aircraft
  • Lighting
  • Seat Wiring and Actuation
  • Passenger Service Units
  • On-board Entertainment Systems
  • Electronic Window Shutters
  • Galley
  • Helicopter Lighting
  • Military Land and Aerospace
  • Mass Transit Lighting

DEUTSCH 369 series connectors from TE Connectivity (TE) have been designed to meet today's tightening industry regulations and Electrical Wiring Interconnect Systems (EWIS) best practices. Based on TE's successful DEUTSCH ARINC 809/EN4165 single module connector, the lightweight, compact 369 series connectors, available in 3, 6, and 9 positions standard, are suited for applications where fewer contacts are needed in each connector and shielding is unnecessary. The 369 series connectors are particularly suited to commercial and business jet aircraft cabin applications. The range now features a variety of options to suit most applications, including in-line and panel-mount versions.

An extension to the popular 369 connector series product line, the 369 PCB connector mounts to a printed-circuit board (PCB). The PCB connectors are available in an in-line version and a panel-mount version.

The PCB connector simply inserts into the board and is then soldered, requiring no additional fasteners or fixings. The end result is an easy and quick-to-mount aerospace-qualified connector with a very compact footprint to help ensure PCB real-estate is maximized.
Specifications

MATERIALS

- Seals and Panel Gasket: Fluorosilicone
- Body and Insert: PEI
- Contacts: Copper alloy, gold plated

ELECTRICAL

- Insulation Resistance: ≥5000 MΩ
- Dielectric Withstand: 1500 Vrms, <2mA leakage
- Operating Current: 5 A

MECHANICAL/ENVIRONMENTAL

- Temperature Range: -55°C to +175°C
- IP Rating: IP65
- Altitude/Humidity: RTCA DO-160
- Vibration: EN2591-403, Method B, Level E, 8 hr/axis
- Shock: EN2591-402, Method A, Severity 100
- Durability: 500 mating cycles min.
- Fluid Resistance: EN2591-315
- Flammability, Smoke, Toxicity: FAR 25.853 Appendix F
In-Line PCB Connectors

**DEUTSCH 369 Series PCB-Mount Connectors**

**In-Line PCB Connectors**

**MATING PLUG LOCATES ABOVE PCB SURFACE**

**PCB 1.6 [0.063] SHOWN**

**REAR BODY LOCATION DOWELS**

**Table: Dimensions**

<table>
<thead>
<tr>
<th>No. of Positions</th>
<th>A Max.</th>
<th>B Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>26.6</td>
<td>8.4</td>
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<tr>
<td></td>
<td>1.047</td>
<td>0.331</td>
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<tr>
<td>6</td>
<td>29.1</td>
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<td>1.146</td>
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<td>13.4</td>
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<tr>
<td></td>
<td>1.244</td>
<td>0.528</td>
</tr>
</tbody>
</table>

**Notes:**
- Millimeters (inches) shown.
- (-4) CONTACT CONFIG.
- PCB 1.6 [0.063] SHOWN.

---

**Dimensions:**
- A: 14.3 [0.503] MAX.
- B: 10.7 [0.421] MAX.
- Ø0.62 ± 0.05 [Ø0.024 ± 0.002] TYP.

---

**Unit Conversion:**
- Millimeters to Inches
- Inches to Millimeters

---

**Image:**
- Diagram of in-line PCB connector with dimensions and notes.
- Image of a vehicle interior showing a screen with a map and video.

---

Downloaded from Arrow.com.
Panel-Mount PCB Connectors

<table>
<thead>
<tr>
<th>No. of Positions</th>
<th>C Max.</th>
<th>D Max.</th>
<th>E Max.</th>
</tr>
</thead>
<tbody>
<tr>
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<td>26.8</td>
<td>11.2</td>
<td>11.7</td>
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<td>0.441</td>
<td>0.461</td>
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<td>6</td>
<td>29.4</td>
<td>13.7</td>
<td>14.2</td>
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<td>1.157</td>
<td>0.539</td>
<td>0.559</td>
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<td>32.0</td>
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<tr>
<td></td>
<td>1.260</td>
<td>0.642</td>
<td>0.661</td>
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</tbody>
</table>

Millimeters / Inches

- Panel Gasket
- Panel
- PCB (1.6 [0.063] SHOWN)
- Ø0.62 ± 0.05
  - Ø0.024 ± 0.002
  - Typical: (-4' CONTACT CONFIG.)

This page is from the AEROSPACE, DEFENSE & MARINE / DEUTSCH 369 SERIES CONNECTORS series.
Part Numbering System

**FAMILY**

D369

**SHELL STYLE**

A PCB, Panel Mount, 1.27 mm (0.050”)
B PCB, Panel Mount, 1.60 mm (0.063”)
C PCB, Panel Mount, 2.03 mm (0.080”)
G PCB, In-Line Mount

**SHELL SIZE**

3, 6, 9

**NUMBER OF CONTACTS**

3, 6, 9

**SHELL KEYING**

N, A, B, C, D

**CONTACT TYPE**

P Pin (Male)
S Socket (Female)

**CONTACT CONFIGURATION**

4 90° PCB Mount, Gold Plated
5 90° PCB Mount, Tin Dipped

**KEYING COLOR CODES**

Connectors are available with five keying options. They are color coded by option:

N Black, A Red, B Blue, C Green, D Yellow
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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<tr>
<td>North America (Toll)</td>
<td>+1 717 986 7777</td>
</tr>
<tr>
<td>EMEA/South Africa</td>
<td>+800 0440 5100</td>
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<tr>
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AEROSPACE, DEFENSE & MARINE /// DEUTSCH 369 SERIES CONNECTORS

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