DEUTSCH 369 Series Connectors

High-Reliability, Lightweight, Compact Connectors Suited to Harsh Aerospace Environments
DEUTSCH 369 Series
Inline Connectors
High-Reliability, Lightweight, Compact Connectors

Versatile and Compact
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.

*See te.com for 3D models of our 369 family of products
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

Keying Color Codes

- Black
- Red
- Blue
- Green
- Yellow

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
DEUTSCH 369 Series Inline Connectors

Plug Connector

<table>
<thead>
<tr>
<th>Shell Size</th>
<th>Mass*</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>1.90 g [0.067 oz]</td>
</tr>
<tr>
<td>6</td>
<td>2.40 g [0.085 oz]</td>
</tr>
<tr>
<td>9</td>
<td>3.00 g [0.105 oz]</td>
</tr>
</tbody>
</table>

*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

<table>
<thead>
<tr>
<th>Shell Size</th>
<th>Mass*</th>
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</thead>
<tbody>
<tr>
<td>3</td>
<td>1.00 g [0.035 oz]</td>
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<tr>
<td>6</td>
<td>1.50 g [0.053 oz]</td>
</tr>
<tr>
<td>9</td>
<td>2.00 g [0.070 oz]</td>
</tr>
</tbody>
</table>

*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

**Dimensions:**
- 6.20 Max. (0.244)
- 15.30 Max. (0.602)

#### 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

#### Shell Size Table

<table>
<thead>
<tr>
<th>Shell Size</th>
<th>Part No.</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>D369-STB-3</td>
<td>0.24 g [0.85 oz]</td>
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<tr>
<td>6</td>
<td>D369-STB-6</td>
<td>0.25 g [0.88 oz]</td>
</tr>
<tr>
<td>9</td>
<td>D369-STB-9</td>
<td>0.28 g [0.99 oz]</td>
</tr>
</tbody>
</table>
DEUTSCH 369 Series Inline Connectors

ELECTRICAL CONTACTS

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

Contacts

<table>
<thead>
<tr>
<th>Contact Option</th>
<th>Contact Size</th>
<th>Wire Range</th>
<th>Type</th>
<th>Part No.</th>
<th>Color Bands</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>22</td>
<td>26 - 22 AWG</td>
<td>Pin</td>
<td>38941-22L</td>
<td>EN3155-070M2222 M39029/58-360 BACC47GC Orange-Blue-Black Green-Green</td>
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<tr>
<td></td>
<td></td>
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<td>Socket</td>
<td>38946-22L</td>
<td>EN3155-071F2222 M39029/57-354 Orange-Green-Yellow</td>
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<tr>
<td>3</td>
<td>20/22</td>
<td>24 - 20 AWG</td>
<td>Pin</td>
<td>182-0860-22</td>
<td>EN3155-070M2220 — — — Red-Green</td>
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<td>182-0862-22</td>
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</table>

Tooling

Insertion/Extraction Tool
M81969/14-01

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
### DEUTSCH 369 Series Inline Connectors

#### Part Numbers

<table>
<thead>
<tr>
<th>No. of Positions</th>
<th>Housing Type</th>
<th>Insert Type</th>
<th>Without Contacts</th>
<th>With Contacts</th>
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<tr>
<td></td>
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#### N-Key (Black Color Code)

<table>
<thead>
<tr>
<th>3</th>
<th>Plug</th>
<th>Pin</th>
<th>D369-P33-NP0</th>
<th>D369-P33-NP*</th>
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</thead>
<tbody>
<tr>
<td>Receptacle</td>
<td>Pin</td>
<td>D369-R33-NP0</td>
<td>D369-R33-NP*</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Socket</td>
<td>D369-R33-NS0</td>
<td>D369-R33-NS*</td>
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<table>
<thead>
<tr>
<th>6</th>
<th>Plug</th>
<th>Pin</th>
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<tbody>
<tr>
<td>Receptacle</td>
<td>Pin</td>
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<tr>
<td></td>
<td>Socket</td>
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<table>
<thead>
<tr>
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<td>D369-R99-NS*</td>
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#### A-Key (Red Color Code)

<table>
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<th>Plug</th>
<th>Pin</th>
<th>D369-P33-AP0</th>
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<tbody>
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<table>
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<tbody>
<tr>
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<td>D369-R99-AS*</td>
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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

<table>
<thead>
<tr>
<th>No. of Positions</th>
<th>Housing Type</th>
<th>Insert</th>
<th>Part No.</th>
<th>Without Contacts</th>
<th>With Contacts</th>
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<td>Socket</td>
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<td>D369-P33-BS*</td>
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<td>D369-P99-BP*</td>
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<td>D369-R99-BP*</td>
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<td>D369-R99-BS*</td>
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<td><strong>C-Key (Green Color Code)</strong></td>
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<td>Socket</td>
<td>D369-P33-CS0</td>
<td>D369-P33-CS*</td>
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<td>D369-R33-CP*</td>
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<td>Plug</td>
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<td>Plug</td>
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<td>Socket</td>
<td>D369-R99-CS0</td>
<td>D369-R99-CS*</td>
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<td><strong>D-Key (Yellow Color Code)</strong></td>
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<td>3</td>
<td>Plug</td>
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<td>D369-P33-DS*</td>
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<td>Socket</td>
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<td>Plug</td>
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<td>Socket</td>
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<td>Plug</td>
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<td>Socket</td>
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</tr>
</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

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### Recommended Panel Cutout

<table>
<thead>
<tr>
<th>Connector Size</th>
<th>X ±0.08 (0.003)</th>
<th>Y ±0.03 (0.001)</th>
</tr>
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<tbody>
<tr>
<td>3</td>
<td>9.90 (0.390)</td>
<td>11.70 (0.461)</td>
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<tr>
<td>6</td>
<td>14.20 (0.559)</td>
<td>14.24 (0.561)</td>
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<tr>
<td>9</td>
<td>16.78 (0.661)</td>
<td>16.78 (0.661)</td>
</tr>
</tbody>
</table>

### TOOLING
Connector panel-extraction tool: Part No. 612184-369
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

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: $\geq 5000$ 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

MATING PLUG LOCATES ABOVE PCB SURFACE

REAR BODY LOCATION DOWELS

No. of Positions | A Max. (mm) | A Max. (in) | B Max. (mm) | B Max. (in)
--- | --- | --- | --- | ---
3 | 26.6 | 1.047 | 8.4 | 0.331
6 | 29.1 | 1.146 | 10.9 | 0.429
9 | 31.6 | 1.244 | 13.4 | 0.528

Millimeters | Inches
Panel-Mount PCB Connectors

DEUTSCH 369 Series PCB-Mount Connectors

### Panel-Mount PCB Connectors

**Panel Gasket**

- Ø0.62 ± 0.05 [Ø0.024 ± 0.002] TYP. ('-4' CONTACT CONFIG.)

**PCB**

- 1.6 [0.063] SHOWN

**Dimensions**

- No. of Positions  | C Max. | D Max. | E Max. |
- 3                | 26.8   | 11.2   | 11.7   |
- 6                | 29.4   | 13.7   | 14.2   |
- 9                | 32.0   | 16.3   | 16.8   |

**Notes**

- Millimeters | Inches
- Nominal: 3.0 [0.118] | Nominal: 3.0 [0.118]
## Part Numbering System

<table>
<thead>
<tr>
<th>FAMILY</th>
<th></th>
<th>SHELL STYLE</th>
<th></th>
<th>SHELL SIZE</th>
<th></th>
<th>NUMBER OF CONTACTS</th>
<th></th>
<th>SHELL KEYING</th>
<th></th>
<th>CONTACT TYPE</th>
<th></th>
<th>CONTACT CONFIGURATION</th>
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<th>KEYING COLOR CODES</th>
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<tbody>
<tr>
<td>D369</td>
<td></td>
<td>PCB, Panel Mount, 1.27 mm (0.050”)</td>
<td>A</td>
<td>3, 6, 9</td>
<td></td>
<td>3, 6, 9</td>
<td></td>
<td>N, A, B, C, D</td>
<td></td>
<td>P  Pin (Male)</td>
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<td>90° PCB Mount, Gold Plated</td>
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<td>N  Black, A  Red, B  Blue, C  Green, D  Yellow</td>
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<td>PCB, Panel Mount, 1.60 mm (0.063”)</td>
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<td></td>
<td></td>
<td>S  Socket (Female)</td>
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<td>90° PCB Mount, Tin Dipped</td>
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<td>PCB, In-Line Mount</td>
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