369 Series Connectors

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

- EWIS Compliant
- Simple Install & Maintenance
- Space Efficient / Stackable
In the 369 Series Connectors, TE Components bring together TE Technology and TE Know-how to empower engineers to solve problems and move the world forward. *See te.com for 3D models of our 369 family of products*
Inline Connectors
High-Reliability, Lightweight, Compact Connectors

RUGGED
- BACC options available
- 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

FLUIDS
- Fuel
- Mineral hydraulic fluid
- Synthetic hydraulic fluid
- Mineral lubricant
- Synthetic lubricant
- Cleaning products
- De-icing fluid
- Extinguishing fluid
- Cooling fluid

APPLICATIONS
- Cabin Lighting
- Oxygen Mask Systems
- Galley Systems
- Seat Actuation Systems
- Industrial
- Unmanned Vehicles
- Commercial & Military Helicopters

Versatile and Compact
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 lock-out 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.
MECHANICAL CHARACTERISTICS

- Operating Temperature: -55°C to +175°C
- Fluid Resistance: EN2591-315
- IP Rating: IP67
- Altitude: EN2591-314: 12.1kPa (1.75 psi) @ 15 km (50,000 ft)
- Humidity: EN2591-321 / EIA-364-31 Method IV
- 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

- Body & Insert: Thermoplastic
- Contacts: Copper alloy, gold plated
- Seals & Panel Gasket: Fluorosilicone rubber
- Designed to meet the requirements of RoHS

ELECTRICAL CHARACTERISTICS

- Dielectric Withstanding Voltage: 1500 Vrms mated, <2 mA leakage
- Operating Current: 5 A
- Insulation Resistance: \( \geq 5000 \text{ M}\Omega \) initial

Keying Color Codes

Instruction Documents

Panel: 408-32194
PCB Panel: 408-163008
PCB In-Line: 408-163009
Instruction Sheet: 408-32252
### 369 Series Connectors

**In-Line Standard**

#### 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
- **Body and Insert:** Thermoplastic
- **Contacts:** Copper alloy, gold plated
- **Seals & Panel Gasket:** Fluorosilicone rubber
- **Designed to meet the requirements of RoHS**

#### ELECTRICAL CHARACTERISTICS
- **Dielectric Withstanding Voltage:** 1500 Vrms mated, <2 mA leakage
- **Operating Current:** 5 A
- **Insulation Resistance:** ≥5000 MΩ initial

#### Keying Color Codes
- **Black**
  - Normal
  - A-Key
  - Red
  - B-Key
- **Blue**
  - Green
  - C-Key
  - Yellow
  - D-Key

#### Instruction Documents
- Panel: 408-32194
- PCB Panel: 408-163008
- PCB In-Line: 408-163009
- Instruction Sheet: 408-32252

#### Diagrams
- Straight Cable-Tie
- Backshell
- Socket (Female) Contacts
- Plug
- Receptacle
- Pin (Male) Contacts
- Cable Tie Slot
- 2.50 x 1.05 mm
- [0.98 x 0.041]
- Accessory or Boot Mounting Feature
- Cavity Identification

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AEROSPACE, DEFENSE & MARINE /// 369 SERIES CONNECTORS

PAGE 5
### 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]
Recommended cable-tie: 2.5 mm [0.10”]

### Receptacle

<table>
<thead>
<tr>
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<th>Mass*</th>
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<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]
Panel-Mount Connectors
High-Reliability, Lightweight, Compact Connectors

**EASY TO INSTALL**
- Integrated panel latches for mtg.
- 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

**APPLICATIONS**
- Cabin Lighting & Galley
- Seat Wiring & Actuation
- Passenger Service Units
- In-flight Entertainment
- Electronic Window Shutters

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**Fast, Easy Panel Mounting**

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.
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

Keying Color Codes

For information on contacts, please refer to Contacts table on page 6.
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

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.

Keying Color Codes

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
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• Easy washout for post-soldering cleaning

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• Mechanical location feature reduces mechanical stress on solder joints

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• Passenger Service Units
• On-board Entertainment Systems
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AEROSPACE, DEFENSE & MARINE /// 369 SERIES CONNECTORS
369 Series Connectors

Specifications

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

ELECTRICAL
- Insulation Resistance: $\geq 5000 \, \text{M} \Omega$
- 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

Panel-Mount PCB Connectors

<table>
<thead>
<tr>
<th>No. of Positions</th>
<th>A Max. (mm)</th>
<th>B Max. (mm)</th>
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<tbody>
<tr>
<td>3</td>
<td>26.6</td>
<td>8.4</td>
</tr>
<tr>
<td></td>
<td>1.047</td>
<td>0.331</td>
</tr>
<tr>
<td>6</td>
<td>29.1</td>
<td>10.9</td>
</tr>
<tr>
<td></td>
<td>1.146</td>
<td>0.429</td>
</tr>
<tr>
<td>9</td>
<td>31.6</td>
<td>13.4</td>
</tr>
<tr>
<td></td>
<td>1.244</td>
<td>0.528</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>No. of Positions</th>
<th>C Max. (mm)</th>
<th>D Max. (mm)</th>
<th>E Max. (mm)</th>
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<tbody>
<tr>
<td>3</td>
<td>26.8</td>
<td>11.2</td>
<td>11.7</td>
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<tr>
<td></td>
<td>1.055</td>
<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>9</td>
<td>32.0</td>
<td>16.3</td>
<td>16.8</td>
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<tr>
<td></td>
<td>1.260</td>
<td>0.642</td>
<td>0.661</td>
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Millimeters inches
## Part Numbers

### Part Numbering System

<table>
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<tr>
<th>FAMILY</th>
<th>D369</th>
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<tr>
<td>VARIANT</td>
<td>Omit * in cabin application</td>
</tr>
<tr>
<td>H</td>
<td>Outside Cabin Application</td>
</tr>
<tr>
<td>TYPE</td>
<td>P (Plug)</td>
</tr>
<tr>
<td>R (Receptacle)</td>
<td></td>
</tr>
<tr>
<td>B (PCB, Panel Thickness for Panel Mount: 1.60mm (0.063”))</td>
<td></td>
</tr>
<tr>
<td>G (PCB, In-Line Mount)</td>
<td></td>
</tr>
<tr>
<td>SHELL SIZE</td>
<td>3, 6, 9</td>
</tr>
<tr>
<td>NUMBER OF CONTACTS</td>
<td>3, 6, 9</td>
</tr>
<tr>
<td>SHELL KEYING</td>
<td>N (Black)</td>
</tr>
<tr>
<td>/ A (Red)</td>
<td></td>
</tr>
<tr>
<td>/ B (Blue)</td>
<td></td>
</tr>
<tr>
<td>/ C (Green)</td>
<td></td>
</tr>
<tr>
<td>/ D (Yellow)</td>
<td></td>
</tr>
<tr>
<td>CONTACT TYPE</td>
<td>P (Pin)</td>
</tr>
<tr>
<td>S (Socket)</td>
<td></td>
</tr>
<tr>
<td>CONTACT CONFIGURATION</td>
<td>0 (Without Contacts)</td>
</tr>
<tr>
<td>1 (With Size 22 Contacts)</td>
<td></td>
</tr>
<tr>
<td>3 (With Size 20/22 Contacts)</td>
<td></td>
</tr>
<tr>
<td>4 (90° PCB Mount, Gold Plated)</td>
<td></td>
</tr>
<tr>
<td>5 (90° PCB Mount, Tin Dipped)</td>
<td></td>
</tr>
<tr>
<td>MODIFICATION NUMBER (OPTIONAL)</td>
<td>-113L (Outgassed)</td>
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### Shell Size & Strain Relief

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<tr>
<th>Shell Size</th>
<th>Strain Relief</th>
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<td>3</td>
<td>D369-STB-3</td>
</tr>
<tr>
<td>6</td>
<td>D369-STB-6</td>
</tr>
<tr>
<td>9</td>
<td>D369-STB-9</td>
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**Tooling**

Connector panel-extraction tool: Part No. 612184-369
Crimp Contacts

<table>
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<th>Wire Range</th>
<th>Type</th>
<th>Part No.</th>
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<td>EN</td>
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<tr>
<td>22</td>
<td>26 – 22</td>
<td>Pin 38941-22L</td>
<td>—</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Socket 38946-22L</td>
<td>—</td>
</tr>
<tr>
<td>20/22</td>
<td>24 – 20</td>
<td>Pin 182-0860-22</td>
<td>EN3155-070M2220</td>
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<td></td>
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<td>Socket 182-0862-22</td>
<td>EN3155-071F2220</td>
</tr>
</tbody>
</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)
<table>
<thead>
<tr>
<th>No. of Positions</th>
<th>Housing Type</th>
<th>Insert</th>
<th>Part No.</th>
<th>With Contacts</th>
<th>Without Contacts</th>
<th>BACC Equivalent</th>
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<tbody>
<tr>
<td></td>
<td>STANDARD (inside cabin)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Plug</td>
<td>Pin</td>
<td>D369-P33-NP1</td>
<td>D369-P33-NP0</td>
<td>D369-P33-NP0</td>
<td>—</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Socket</td>
<td>D369-P33-NS1</td>
<td>D369-P33-NS0</td>
<td>D369-P33-NS0</td>
<td>—</td>
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<td></td>
<td>Receptacle</td>
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<td>D369-R33-NP1</td>
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<td>D369-R33-NP0</td>
<td>—</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Socket</td>
<td>D369-R33-NS1</td>
<td>D369-R33-NS0</td>
<td>D369-R33-NS0</td>
<td>—</td>
</tr>
<tr>
<td>6</td>
<td>Plug</td>
<td>Pin</td>
<td>D369-P66-NP1</td>
<td>D369-P66-NP0</td>
<td>D369-P66-NP0</td>
<td>—</td>
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<td>—</td>
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<td>D369-R66-NP0</td>
<td>D369-R66-NP0</td>
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<tr>
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<td></td>
<td>Socket</td>
<td>D369-R66-NS1</td>
<td>D369-R66-NS0</td>
<td>D369-R66-NS0</td>
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</tr>
<tr>
<td>9</td>
<td>Plug</td>
<td>Pin</td>
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<td>D369-P99-NP0</td>
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<td></td>
<td>Socket</td>
<td>D369-P99-NS1</td>
<td>D369-P99-NS0</td>
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<td>Pin</td>
<td>D369-R99-NP1</td>
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<td>D369-R99-NS1</td>
<td>D369-R99-NS0</td>
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<td>—</td>
</tr>
<tr>
<td></td>
<td>HARSH (outside cabin)</td>
<td></td>
<td></td>
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<td>Plug</td>
<td>Pin</td>
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<td>D369-HP33-NP0</td>
<td>BACC65 CP 1PN</td>
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<tr>
<td></td>
<td></td>
<td>Socket</td>
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<td>D369-HP33-NS0</td>
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<td>D369-HR66-NS0</td>
<td>BACC65 CR 2SN</td>
<td></td>
</tr>
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<td>9</td>
<td>Plug</td>
<td>Pin</td>
<td>D369-HP99-NP1</td>
<td>D369-HP99-NP0</td>
<td>BACC65 CP 3PN</td>
<td></td>
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<td>Socket</td>
<td>D369-HP99-NS1</td>
<td>D369-HP99-NS0</td>
<td>BACC65 CP 3SN</td>
<td></td>
</tr>
<tr>
<td></td>
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### 369 Series Connectors

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See [www.te.com](http://www.te.com) for additional part numbers and alternative keying options available.

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369 Connectors Can Be Easily Secured with Cable Ties, Eliminating the Need for Additional Hardware or Cutouts.
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Technical Support
te.com/support-center

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<tr>
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<tr>
<td>EMEA/South Africa</td>
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