369 Series Connectors

High-Reliability, Lightweight, Small Form Factor Connectors Suited to Harsh Environments . . .

- EWIS Compliant
- Simple Install and Maintenance
- Space Efficient / Stackable
In-Line Connectors
High-Reliability, Lightweight, Compact Connectors

369 Series Connectors

RUGGED
• BACC options available
• EMI shielded option 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/ARINC 854
• AS39029/EN3155 contacts

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

SECURE
• Cable tie “locks out” the mating button

FLUIDS
• Synthetic hydraulic fluid
• Mineral lubricant
• Synthetic lubricant
• Cleaning products
• De-icing fluid
• Extinguishing fluid
• Solvent for cleaning purposes

APPLICATIONS
• Cabin lighting
• Oxygen mask systems
• Galley systems
• Seat actuation systems
• Industrial
• Unmanned vehicles
• Commercial and 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 a variety of applications.

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 and integral ribs 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 with an audible click to confirm a complete connection.

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.

TE Components . . . TE Technology . . . TE Know-how . . .
AMP | AGASTAT | CII | HARTMAN | KILOVAC | MICRODOT | NANONICS | POLAMCO | Raychem SEACON | Rochester | DEUTSCH
Empower Engineers to Solve Problems, Moving the World Forward.
### In-Line Harsh

#### 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

#### Keying Color Codes

- **Black**
- **Red**
- **Blue**
- **Green**
- **Yellow**

#### MATERIALS

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

#### ELECTRICAL CHARACTERISTICS

- **Dielectric Withstanding Voltage:** 1500 V mated, ≤2 mA leakage
- **Operating Current:** 5 A
- **Insulation Resistance:** ≥5000 MΩ initial

#### Instruction Documents

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

MECHANICAL CHARACTERISTICS

- Operating Temperature: -55°C to +175°C
- Fluid Resistance: EN2591-315
- IP Rating: IP67
- 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: Composite thermoplastic
- Contacts: Copper alloy, gold plated
- Seals and Panel Gasket: Fluorosilicone rubber
- Designed to meet the requirements of RoHS

ELECTRICAL CHARACTERISTICS

- Dielectric Withstanding Voltage: 1500 V—mated, <2 mA leakage
- Operating Current: 5 A
- Insulation Resistance: ≥5000 MΩ initial

Keying Color Codes

<table>
<thead>
<tr>
<th>Color</th>
<th>Key</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black</td>
<td>Normal</td>
</tr>
<tr>
<td>Red</td>
<td>A-Key</td>
</tr>
<tr>
<td>Blue</td>
<td>B-Key</td>
</tr>
<tr>
<td>Green</td>
<td>C-Key</td>
</tr>
<tr>
<td>Yellow</td>
<td>D-Key</td>
</tr>
</tbody>
</table>

Instruction Documents

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

Plug Connector (Standard & Harsh)

<table>
<thead>
<tr>
<th>Shell Size</th>
<th>Mass*</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>1.9 g [0.067 oz]</td>
</tr>
<tr>
<td>6</td>
<td>2.4 g [0.085 oz]</td>
</tr>
<tr>
<td>9</td>
<td>3.0 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>
<th>Shell Size</th>
<th>Mass*</th>
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<tbody>
<tr>
<td>3</td>
<td>1.0 g [0.035 oz]</td>
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<tr>
<td>6</td>
<td>1.5 g [0.053 oz]</td>
</tr>
<tr>
<td>9</td>
<td>2.0 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 and repair

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 blind mating

APPLICATIONS
- Cabin lighting and galley
- Seat wiring and actuation
- Passenger service units
- In-flight entertainment
- Electronic window shutters

Fast, Easy Tool-less 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. 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.
369 Series 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

ELECTRICAL CHARACTERISTICS

- Dielectric Withstanding Voltage: 1500 V→ mated, <2 mA leakage
- Operating Current: 5 A
- Insulation Resistance: ≥5000 MΩ initial

Keying Color Codes

ANTI-RATTLE GASKET

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

MATERIALS

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

INSTRUCTION DOCUMENTS

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

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

Reliable, Convenient PCB Application
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. Fully compatible with existing 369 shielded and harsh connectors.

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

- Black Normal
- Red A-Key
- Blue B-Key
- Green C-Key
- Yellow D-Key
- Green C-Key
369 Series 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

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

ELECTRICAL CHARACTERISTICS

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

In-Line PCB Connectors

![In-Line PCB Connectors diagram]

Panel-Mount PCB Connectors

![Panel-Mount PCB Connectors diagram]

**Panel-Mount PCB Connectors**

![Panel-Mount PCB Connectors diagram]

**Instruction Documents**

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

<table>
<thead>
<tr>
<th>No. of Positions</th>
<th>A Max.</th>
<th>B Max.</th>
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</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>
</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>
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<tr>
<td>9</td>
<td>31.6</td>
<td>13.4</td>
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<tr>
<td></td>
<td>1.244</td>
<td>0.528</td>
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</table>

<table>
<thead>
<tr>
<th>No. of Positions</th>
<th>C Max.</th>
<th>D Max.</th>
<th>E Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>26.8</td>
<td>11.2</td>
<td>11.7</td>
</tr>
<tr>
<td></td>
<td>1.055</td>
<td>0.441</td>
<td>0.461</td>
</tr>
<tr>
<td>6</td>
<td>29.4</td>
<td>13.7</td>
<td>14.2</td>
</tr>
<tr>
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<td>1.157</td>
<td>0.539</td>
<td>0.559</td>
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<tr>
<td>9</td>
<td>32.0</td>
<td>16.3</td>
<td>16.8</td>
</tr>
<tr>
<td></td>
<td>1.260</td>
<td>0.642</td>
<td>0.661</td>
</tr>
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</table>
Shielded Connectors
Provides Shielding for Grounding and EMI Protection

Description
TE Connectivity (TE)’s new 369 shielded connector brings an enhanced product extension to the current 369 connector family where ambient EMI noise protection is required.

Backward Compatible
• Intermateable with current 369 product offerings.

Proven Shielding Effectiveness
• >60 DB at low frequencies
• >40 db at high frequencies
• Can withstand indirect lightning strike of 3.6ka

Lightweight and RoHs Compliant
• Composite nickel-plated shells

High Speed Capability
• Enables data transmission of 100Mbs (100 Base-T1)
• Up to 75% weight savings

Markets/Applications Served

Markets
• Commercial Aerospace
• Helicopter
• Drones and UAVs
• Military Ground Vehicles
• Mass Transit

Applications
• Lighting
• On-Board Entertainment
• Seat Wiring and Actuations
• Galley

Performance Characteristics

ELECTRICAL
• Dielectric Withstanding Voltage: 1500 Vrms mated, <2 mA leakage
• Operating Current: 5 A
• Insulation Resistance: ≥5000 MΩ initial
• EMI Shielding Effectiveness:
  - 65dB @ 150MHz
  - 55dB @ 400MHz
  - 60dB @ 200MHz
  - 45dB @ 800MHz
  - 55dB @ 300MHz
  - 43dB @ 1GHz
• Lightning strike
• 3.6kA per EIA-364, Test procedure 75, Type B, Level 1
369 Series Connectors

MECHANICAL

• **Operating Temperature:** -55°C to +175°C
• **Fluid Resistance:** EN2591-315
• **IP Rating:** IP67
• **Altitude/Humidity:** EN2591-314 7.24kPa/60k ft
• **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

MATERIALS

• **Body and Insert:** Composite thermoplastic
• **Contacts:** Copper alloy, gold plated
• **Seals and Panel Gasket:** Fluorosilicone rubber
• **Designed to meet the requirements of RoHS**
• **Plating:** RoHS nickel over copper

ADDITIONAL KEY REQUIREMENTS

• **Recommended TE molded boot (size 9) P/N:** 202D972-4/86-0
• **Recommended TE molded boot (size 3 & 6) P/N:** 202D971-4/86-0
• **Recommended TE bandstrap P/N:** BND-0812S

<table>
<thead>
<tr>
<th>Shell Size</th>
<th>Pin Insert Mass</th>
<th>Socket Insert Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>3.40 g [0.120 oz]</td>
<td>3.50 g [0.124 oz]</td>
</tr>
<tr>
<td>6</td>
<td>3.90 g [0.138 oz]</td>
<td>4.10 g [0.145 oz]</td>
</tr>
<tr>
<td>9</td>
<td>4.50 g [0.159 oz]</td>
<td>4.70 g [0.166 oz]</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Shell Size</th>
<th>Pin Insert Mass</th>
<th>Socket Insert Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>2.50 g [0.089 oz]</td>
<td>2.50 g [0.089 oz]</td>
</tr>
<tr>
<td>6</td>
<td>2.90 g [0.103 oz]</td>
<td>2.80 g [0.099 oz]</td>
</tr>
<tr>
<td>9</td>
<td>3.50 g [0.124 oz]</td>
<td>3.40 g [0.120 oz]</td>
</tr>
</tbody>
</table>

| 3 | Plug | Pin | D369-MP33-NP1 | D369-MP33-NPO |
|   | Receptacle | Pin | D369-MR33-NP1 | D369-MR33-NPO |
| 6 | Plug | Pin | D369-MP66-NP1 | D369-MP66-NPO |
|   | Receptacle | Pin | D369-MR66-NP1 | D369-MR66-NPO |
| 9 | Plug | Pin | D369-MP99-NP1 | D369-MP99-NPO |
|   | Receptacle | Pin | D369-MR99-NP1 | D369-MR99-NPO |
### Part Numbering System

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<thead>
<tr>
<th>FAMILY</th>
<th>D369</th>
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<tbody>
<tr>
<td>VARIANT</td>
<td>Blank Standard (15K Feet)</td>
</tr>
<tr>
<td>H</td>
<td>Outside Cabin (50K Feet)</td>
</tr>
<tr>
<td>M</td>
<td>Metalized (Shielded 60K Feet)</td>
</tr>
<tr>
<td>TYPE</td>
<td>P Plug</td>
</tr>
<tr>
<td>R</td>
<td>Receptacle</td>
</tr>
<tr>
<td>B</td>
<td>Panel Mount (PCB Options Available in Contact Selection)</td>
</tr>
<tr>
<td>G</td>
<td>PCB Inline Mount</td>
</tr>
<tr>
<td>SHELL SIZE</td>
<td>3, 6, 9</td>
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<tr>
<td>NUMBER OF CONTACTS</td>
<td>3, 6, 9</td>
</tr>
<tr>
<td>SHELL KEYING</td>
<td>N Black, A Red, B Blue, C Green, D Yellow</td>
</tr>
<tr>
<td>CONTACT TYPE</td>
<td>P Pin</td>
</tr>
<tr>
<td>S</td>
<td>Socket</td>
</tr>
<tr>
<td>CONTACT CONFIGURATION</td>
<td>0 Without Contacts</td>
</tr>
<tr>
<td>1</td>
<td>With Size 22 Contacts</td>
</tr>
<tr>
<td>3</td>
<td>With Size 20/22 Contacts</td>
</tr>
<tr>
<td>4</td>
<td>90° PCB Contacts (Gold Plated)</td>
</tr>
<tr>
<td>MODIFICATION (OPTIONAL)</td>
<td>113L Outgassed</td>
</tr>
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#### Part Numbers

<table>
<thead>
<tr>
<th>Shell Size</th>
<th>Strain Relief/Backshell</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>D369-STB-3</td>
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<tr>
<td>6</td>
<td>D369-STB-6</td>
</tr>
<tr>
<td>9</td>
<td>D369-STB-9</td>
</tr>
</tbody>
</table>

**Straight Cable-Tie Backshell**

- 6.20 Max. (0.244)
- 15.30 Max. (0.602)

**Tooling**

Connector panel-extraction tool: Part No. 612184-369
369 Series Connectors

Crimp Contacts

<table>
<thead>
<tr>
<th>Contact Size</th>
<th>Wire Range</th>
<th>Type</th>
<th>TE</th>
<th>Mil-Spec/EN Spec</th>
<th>BACC</th>
<th>Sealing Plug</th>
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<tbody>
<tr>
<td>22</td>
<td>26 - 22 AWG</td>
<td>Pin</td>
<td>38941-22L</td>
<td>M39029/58-360</td>
<td>BACC47GC</td>
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<td>Socket</td>
<td>38946-22L</td>
<td>M39029/57-354</td>
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<td></td>
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<tr>
<td>20/22</td>
<td>Enlarged Crimp Barrel</td>
<td>24 - 20 AWG</td>
<td>Pin</td>
<td>182-0860-22</td>
<td>EN3155-070M2220</td>
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<td>Socket</td>
<td>182-0862-22</td>
<td>EN3155-071F2220</td>
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</tr>
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</table>

50 micro inches of gold over a layer of nickel over these copper alloy contacts (material)

Tooling

Insertion/Extraction Tool
M81969/14-01
TE Part No. 601966-1

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
<table>
<thead>
<tr>
<th>No. of Positions</th>
<th>Housing Type</th>
<th>Insert</th>
<th>Part No. With Contacts</th>
<th>Part No. Without Contacts</th>
<th>BACC Equivalent</th>
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<tr>
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<tr>
<td><strong>STANDARD (Inside Cabin)</strong></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Plug</td>
<td>Pin</td>
<td>D369-P33-NP1</td>
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<tr>
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<td>Socket</td>
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<td>D369-R33-NP1</td>
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<td></td>
<td>Receptacle</td>
<td>Pin</td>
<td>D369-R66-NP1</td>
<td>D369-R66-NP0</td>
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<tr>
<td></td>
<td></td>
<td>Socket</td>
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See www.te.com/369 for additional part numbers and alternative keying options available.
369 Series Connectors

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

Notes
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1-1773704-7  10/19

AEROSPACE, DEFENSE & MARINE /// 369 SERIES CONNECTORS