



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

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



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

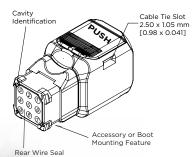
• **Dielectric Withstanding Voltage:** 1500 V_{rms} mated, <2 mA leakage

• 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

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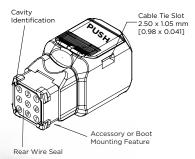
• **Dielectric Withstanding Voltage:** 1500 V_{rms} mated, <2 mA leakage

• Operating Current: 5 A

• Insulation Resistance: ≥5000 MΩ initial

Instruction Documents

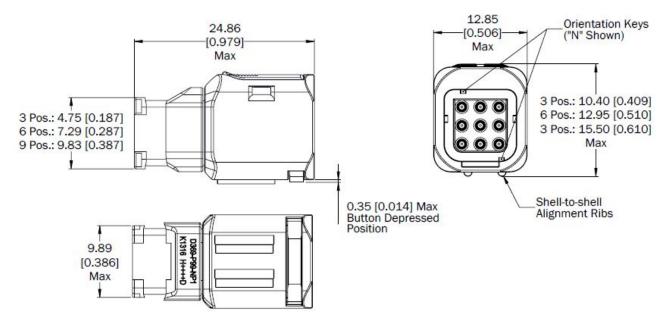
Panel: 408-32194
PCB Panel: 408-163008
PCB In-Line: 408-163009
Instruction Sheet: 408-32252







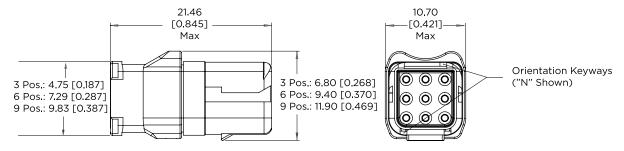
Plug Connector (Standard & Harsh)

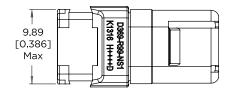


Shell Size	Mass*
3	1.9 g [0.067 oz]
6	2.4 g [0.085 oz]
9	3.0 g [0.105 oz]

*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





Shell Size	Mass*	
3	1.0 g [0.035 oz]	
6	1.5 g [0.053 oz]	
9	2.0 g [0.070 oz]	

*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 strainrelief 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 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.



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



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

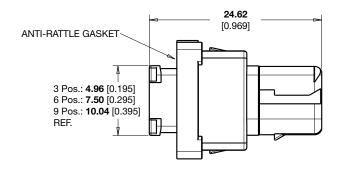
• **Dielectric Withstanding Voltage:** 1500 V_{rms} mated, <2 mA leakage

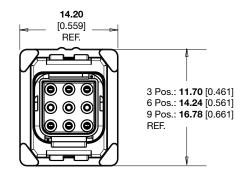
• Operating Current: 5 A

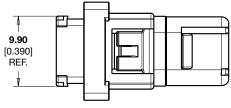
• Insulation Resistance: \geq 5000 M Ω initial

Instruction Documents

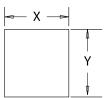
Panel: 408-32194
PCB Panel: 408-163008
PCB In-Line: 408-163009
Instruction Sheet: 408-32252







Recommended Panel Cutout					
Connector Size	X ±0.08 (0.003)	Y ±0.03 (0.001)			
3	_	8.95 (0.352)			
6	10.85 (0.420)	11.49 (0.452)			
9		14.03 (0.552)			



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 panelmount 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

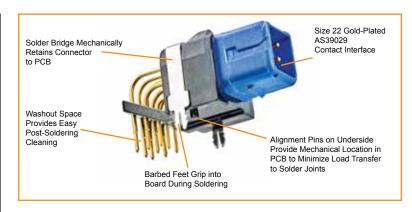
- Mechanically self-retaining during soldering of in-line connectors
- No additional solder fixtures required
- Easy washout for postsoldering cleaning

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





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

In-Line PCB Connectors

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 Vrms mated, <2 mA leakage

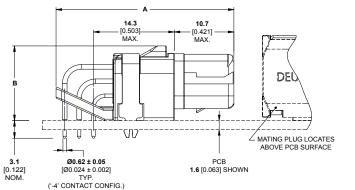
• Operating Current: 5 A

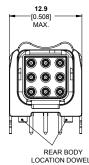
• Insulation Resistance: ≥5000 MΩ initial

Instruction Documents

Panel: 408-32194 PCB Panel: 408-163008 PCB In-Line: 408-163009

Instruction Sheet: 408-32252



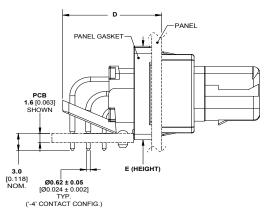


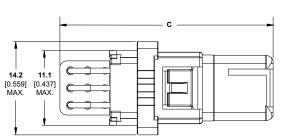


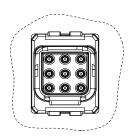
No. of Positions	A Max.	B Max.
3	26.6 1.047	8.4 0.331
6	29.1 1.146	10.9 0.429
9	31.6 1.244	13.4 0.528

Millimeters Inches

Panel-Mount PCB Connectors









No. of Positions	C Max.	D Max.	E Max.
3	26.8 1.055	11.2 0.441	11.7 0.461
6	29.4 1.157	13.7 0.539	14.2 0.559
9	32.0 1.260	16.3 0.642	16.8 0.661

Millimeters Inches



Shielded Connectors

Provides Shielding for Grounding and EMI Protection

EASY TO INSTALL

- No fasteners
- Push/pull mate

VERSATILE

- Compatible with existing 369 connector series
- Easily removed for maintenance
- Meets ARINC 854 ethernet over single twisted pair (100Base-T1)

SPACE SAVING

- Compact design
- Tight mounting pitch of multiple connectors

WEIGHT SAVINGS

- Composite nickel plated shells
- No additional fasteners required

RUGGED

- Triple barrier wire seals
- Cork-in-bottle interface seal
- Performance up to 60K feet
- Uses AS39029 size 22 AWG contacts

RELIABLE

- Designed to MIL-DTL-38999 levels of performance
- EWIS compliant
- Positive blind-mate with audible latching click
- Scoop proof

ENVIRONMENTALLY FRIENDLY

• Low smoke, toxicity and flammability





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



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

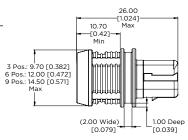
• Flammability: FAR 25.853, Appendix F; EN2591-317

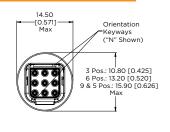
MATERIALS

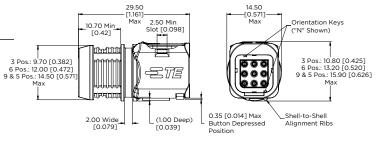
- Body and Insert: Composite thermoplastic
- Contacts: Copper alloy, gold plated
- Seals and Panel Gasket: Fluorosilicone rubber
- Designed to meet the requirements of RoHS
- Plating: RoHS nickel over copper

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







Plug					
Chall Ci-	Ma	ass			
Shell Size	Pin Insert Socket Insert				
3	3.40 g [0.120 oz]	3.50 g [0.124 oz]			
6	3.90 g [0.138 oz]	4.10 g [0.145 oz]			
9	4.50 g [0.159 oz]	4.70 g [0.166 oz]			

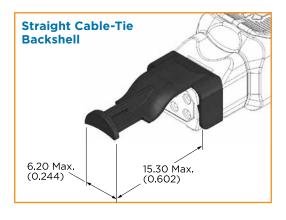
Receptacle					
Chall Cina	Mass				
Shell Size	Pin Insert Socket Insert				
3	2.50 g [0.089 oz]	2.50 g [0.089 oz]			
6	2.90 g [0.103 oz]	2.80 g [0.099 oz]			
9	3.50 g [0.124 oz]	3.40 g [0.120 oz]			

	369 Shielded		With Contacts	No Contacts	
	Pin		D369-MP33-NP1	D369-MP33-NP0	
3	Plug —	Socket	D369-MP33-NS1	D369-MP33-NS0	
3	Decembrale	Pin	D369-MR33-NP1	D369-MR33-NP0	
	Receptacle —	Socket	D369-MR33-NS1	D369-MR33-NS0	
	Dl	Pin	D369-MP66-NP1	D369-MP66-NP0	
C	Plug —	Socket	D369-MP66-NS1	D369-MP66-NS0	
6	December	Pin	D369-MR66-NP1	D369-MR66-NP0	
Receptacle	Receptacie –	Socket	D369-MR66-NS1	D369-MR66-NS0	
9 Plug -		Dl	Pin	D369-MP99-NP1	D369-MP99-NP0
	Plug —	Socket	D369-MP99-NS1	D369-MP99-NS0	
	Decembrale	Pin	D369-MR99-NP1	D369-MR99-NP0	
	Receptacie —	Socket	D369-MR99-NS1	D369-MR99-NS0	



Part Numbers

Part Numbering System D369 - H P 3 3 - N P 1-MOD FAMILY -**D369 VARIANT Blank** Standard (15K Feet) Outside Cabin (50K Feet) M Metalized (Shielded 60K Feet) TYPE-Plug R Receptacle **B** Panel Mount (PCB Options Available in Contact Selection) **G** PCB Inline Mount SHELL SIZE-3, 6, 9 **NUMBER OF CONTACTS-**3, 6, 9 **SHELL KEYING-**N Black, A Red, B Blue, C Green, D Yellow **CONTACT TYPE-**Pin **S** Socket **CONTACT CONFIGURATION –** Without Contacts With Size 22 Contacts 3 With Size 20/22 Contacts 4 90° PCB Contacts (Gold Plated) **MODIFICATION (OPTIONAL)**-



113L Outgassed

Shell Size	Strain Relief/ Backshell			
3	D369-STB-3			
6	D369-STB-6			
9	D369-STB-9			



ToolingConnector panel-extraction tool: **Part No. 612184-369**



Crimp Contacts



Contact Size	Wire Range	Туре	TE	Mil-Spec/EN Spec	BACC	Sealing Plug
22	26 - 22	Pin	38941-22L	M39029/58-360	- BACC47GC	
	AWG	Socket	38946-22L	M39029/57-354	- BACC4/GC	020 0102 22
20/22	24 - 20	Pin	182-0860-22	EN3155-070M2220		028-0102-22
Enlarged Crimp Barrel	AWG	Socket	182-0862-22	EN3155-071F2220		•

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

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



Part Numbers

No. of	Housing		Part	t No.	
Positions	Туре	Insert	With Contacts	Without Contacts	BACC Equivalent
STANDARD	(Inside Cabin)				
	Dlug	Pin	D369-P33-NP1	D369-P33-NP0	_
3	Plug	Socket	D369-P33-NS1	D369-P33-NS0	_
3	Docontoolo	Pin	D369-R33-NP1	D369-R33-NP0	_
	Receptacle	Socket	D369-R33-NS1	D369-R33-NS0	_
	Dleas	Pin	D369-P66-NP1	D369-P66-NP0	<u> </u>
6	Plug	Socket	D369-P66-NS1	D369-P66-NS0	_
6	Danastaala	Pin	D369-R66-NP1	D369-R66-NP0	_
	Receptacle	Socket	D369-R66-NS1	D369-R66-NS0	_
	Dlass	Pin	D369-P99-NP1	D369-P99-NP0	<u> </u>
0	Plug	Socket	D369-P99-NS1	D369-P99-NS0	_
9		Pin	D369-R99-NP1	D369-R99-NP0	_
	Receptacle	Socket	D369-R99-NS1	D369-R99-NS0	_
HARSH (Out	side Cabin)		With Contacts	Without Contacts	BACC Equivalent
		Pin	D369-HP33-NP1	D369-HP33-NP0	BACC65 CP 1PN
	Plug	Socket	D369-HP33-NS1	D369-HP33-NS0	BACC65 CP 1SN
3		Pin	D369-HR33-NP1	D369-HR33-NP0	BACC65 CR 1PN
	Receptacle	Socket	D369-HR33-NS1	D369-HR33-NS0	BACC65 CR 1SN
		Pin	D369-HP66-NP1	D369-HP66-NP0	BACC65 CP 2PN
	Plug	Socket	D369-HP66-NS1	D369-HP66-NS0	BACC65 CP 2SN
6		Pin	D369-HR66-NP1	D369-HR66-NP0	BACC65 CR 2PN
	Receptacle	Socket	D369-HR66-NS1	D369-HR66-NS0	BACC65 CR 2SN
		Pin	D369-HP99-NP1	D369-HP99-NP0	BACC65 CP 3PN
	Plug	Socket	D369-HP99-NS1	D369-HP99-NS0	BACC65 CP 3SN
9		Pin	D369-HR99-NP1	D369-HR99-NP0	BACC65 CR 3PN
	Receptacle	Socket	D369-HR99-NS1	D369-HR99-NS0	BACC65 CR 3SN
PANEL MOU	NT		With Contacts	Crimp Contacts	90° PCB Contact
3	Receptacle	Pin	D369-B33-NP0	D369-B33-NP1	D369-B33-NP4
		Socket	D369-B33-NS0	D369-B33-NS1	D369-B33-NS4
6	Receptacle	Pin	D369-B66-NP0	D369-B66-NP1	D369-B66-NP4
	Neceptacie	Socket	D369-B66-NS0	D369-B66-NS1	D369-B55-NS4
9	Receptacle	Pin	D369-B99-NP0	D369-B99-NP1	D369-B99-NP4
		Socket	D369-B99-NS0	D369-B99-NS1	D369-B99-NS4
PCB INLINE	MOUNT		90° PCB Contacts	-	
		Pin	D369-G33-NP4	-	
3	Receptacle -	Socket	D369-G33-NS4	-	
		Pin	D369-G66-NP4	=	
6	Receptacle	Socket	D369-G66-NS4	-	
		Pin	D369-G99-NP4	=	
9	Receptacle	Socket	D369-G99-NS4	-	

See www.te.com/369 for additional part numbers and alternative keying options available





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

Notes

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

North America +1 800 522 6752

North America (Toll) +1 717 986 7777

EMEA/South Africa +800 0440 5100

EMEA (Toll) +31 73 624 6999

India (Toll-Free) +800 440 5100

Asia Pacific +86 400 820 6015

Japan +81 044 844 8180

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