



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**

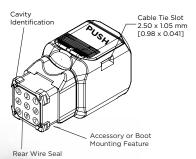
• **Dielectric Withstanding Voltage:** 1500 V<sub>rms</sub> mated, <2 mA leakage

• 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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# **ELECTRICAL CHARACTERISTICS**

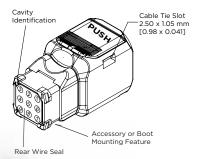
• **Dielectric Withstanding Voltage:** 1500 V<sub>rms</sub> mated, <2 mA leakage

• Operating Current: 5 A

• Insulation Resistance: ≥5000 MΩ initial

# **Instruction Documents**

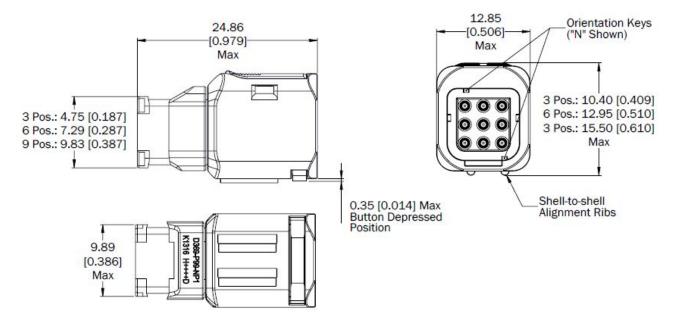
Panel: 408-32194
PCB Panel: 408-163008
PCB In-Line: 408-163009
Instruction Sheet: 408-32252







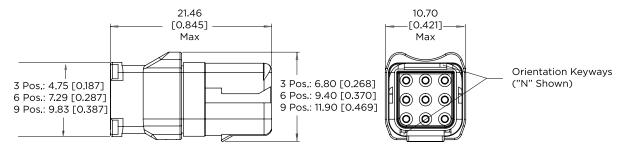
# **Plug Connector (Standard & Harsh)**

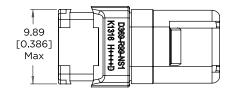


Shell Size	Mass*	
3	1.9 g [0.067 oz]	
6	2.4 g [0.085 oz]	
9	3.0 g [0.105 oz]	

\*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**

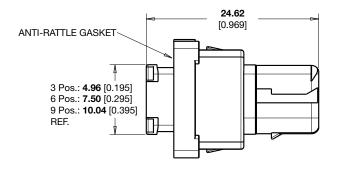
Dielectric Withstanding Voltage: 1500 V<sub>rms</sub> mated,
 2 mA leakage

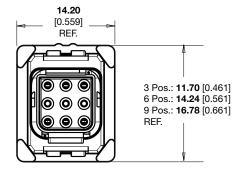
• Operating Current: 5 A

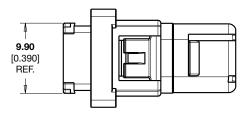
• Insulation Resistance:  $\geq$ 5000 M $\Omega$  initial

#### **Instruction Documents**

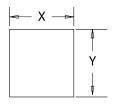
Panel: 408-32194
PCB Panel: 408-163008
PCB In-Line: 408-163009
Instruction Sheet: 408-32252







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



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**

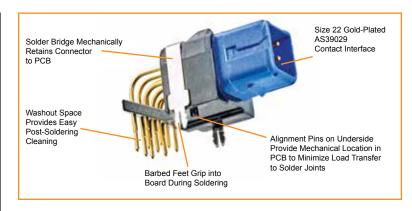
- Mechanically self-retaining during soldering of in-line connectors
- No additional solder fixtures required
- Easy washout for postsoldering cleaning

# **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

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• 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 Vrms mated, <2 mA leakage

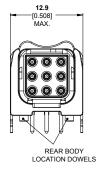
• Operating Current: 5 A

• Insulation Resistance: ≥5000 MΩ initial

#### **Instruction Documents**

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

# Instruction Sheet: 408-32252

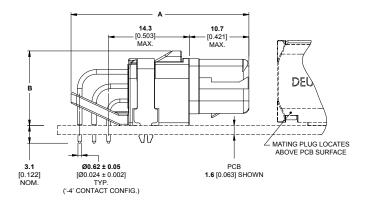




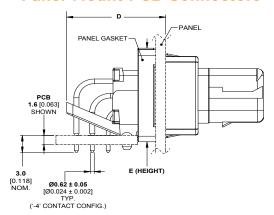
No. of Positions	A Max.	B Max.
Positions		
3	<b>26.6</b> 1.047	<b>8.4</b> 0.331
6	<b>29.1</b> 1.146	<b>10.9</b> 0.429
9	<b>31.6</b> 1 24 4	<b>13.4</b> 0.528

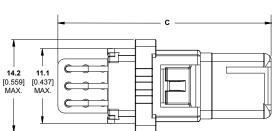
Millimeters Inches

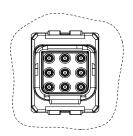
# **In-Line PCB Connectors**



# **Panel-Mount PCB Connectors**









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

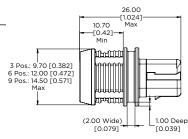
• Flammability: FAR 25.853, Appendix F; EN2591-317

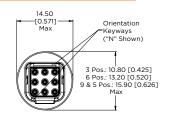
## **MATERIALS**

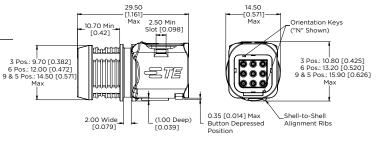
- Body and Insert: Composite thermoplastic
- Contacts: Copper alloy, gold plated
- Seals and Panel Gasket: Fluorosilicone rubber
- Designed to meet the requirements of RoHS
- Plating: RoHS nickel over copper

# **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 Cia	Ma	Mass			
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]			

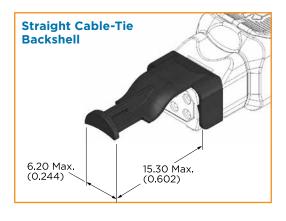
Receptacle					
Chall Cina	Mass				
Shell Size	Pin Insert Socket Inser				
3	2.50 g [0.089 oz]	2.50 g [0.089 oz]			
6	2.90 g [0.103 oz]	2.80 g [0.099 oz]			
9	3.50 g [0.124 oz]	3.40 g [0.120 oz]			

	369 Shielded		With Contacts	No Contacts
	Dlue	Pin	D369-MP33-NP1	D369-MP33-NP0
7	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
Plug 6 Receptacle	Dlean	Pin	D369-MP66-NP1	D369-MP66-NP0
	Plug —	Socket	D369-MP66-NS1	D369-MP66-NS0
	Desembede	Pin	D369-MR66-NP1	D369-MR66-NP0
	кесертасіе —	Socket	D369-MR66-NS1	D369-MR66-NS0
	Dlean	Pin	D369-MP99-NP1	D369-MP99-NP0
Plug 9 —————— Receptacle	Plug —	Socket	D369-MP99-NS1	D369-MP99-NS0
	Decembed	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		



**Tooling**Connector 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	
22	AWG	Socket	38946-22L	M39029/57-354	- BACC47GC	000 0100 00
20/22	24 - 20	Pin	182-0860-22	EN3155-070M2220		028-0102-22
Enlarged Crimp Barrel	AWG	Socket	182-0862-22	EN3155-071F2220		•

<sup>50</sup> 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	No.	
Positions	Туре	Insert	With Contacts	Without Contacts	BACC Equivalent
STANDARD	(Inside Cabin)				
	Plug	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	_
	Plug	Pin	D369-P66-NP1	D369-P66-NP0	_
6		Socket	D369-P66-NS1	D369-P66-NS0	_
O	Docontoolo	Pin	D369-R66-NP1	D369-R66-NP0	_
	Receptacle	Socket	D369-R66-NS1	D369-R66-NS0	_
	Dlve	Pin	D369-P99-NP1	D369-P99-NP0	<del>_</del>
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	<u> </u>
HARSH (Out	side Cabin)		With Contacts	Without Contacts	BACC Equivalent
		Pin	D369-HP33-NP1	D369-HP33-NP0	BACC65 CP 1PN
7	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
	D.I.	Pin	D369-HP66-NP1	D369-HP66-NP0	BACC65 CP 2PN
6	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
	51	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
		Pin	D369-B33-NP0	D369-B33-NP1	D369-B33-NP4
3	Receptacle	Socket	D369-B33-NS0	D369-B33-NS1	D369-B33-NS4
		Pin	D369-B66-NP0	D369-B66-NP1	D369-B66-NP4
6	Receptacle	Socket	D369-B66-NS0	D369-B66-NS1	D369-B55-NS4
		Pin	D369-B99-NP0	D369-B99-NP1	D369-B99-NP4
9	Receptacle	Socket	D369-B99-NS0	D369-B99-NS1	D369-B99-NS4
	MAUNIT		00° D0D 0	-	
PCB INLINE	MOUNT		90° PCB Contacts	-	
3	Receptacle	Pin	D369-G33-NP4	-	
		Socket	D369-G33-NS4	-	
6	Receptacle	Pin	D369-G66-NP4	-	
		Socket	D369-G66-NS4	-	
9	Receptacle	Pin	D369-G99-NP4	-	
	receptacie	Socket	D369-G99-NS4		

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

D369-G99-NS4





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**

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