



*369 series*

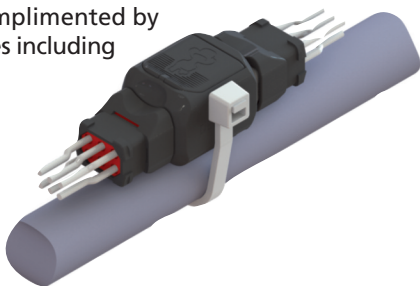


The Deutsch 369® series has been developed to provide a range of high reliability, lightweight, compact and cost-efficient connectors suited to aerospace and other harsh environment applications. The product is particularly suited to civil aerospace cabin systems applications and is based on the successful Deutsch ARINC 809/EN4165 single module connector. The 369 is designed for applications where fewer contacts are needed in each connector and shielding is unnecessary. There are three standard contact layouts available in the Deutsch 369 series; 3, 6 and 9 way. Installation and maintenance of cabling is simple, quick and error-proof with a range of individually colour-coded keying options. Furthermore, 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 your system.

Aerospace standard AS39029 contacts can be easily extracted and reinserted from the rear of the connector with standard tooling. The 369 is particularly suitable for blind-mating or low visibility conditions with the scoop-proof interface preventing damage to contacts. The connectors are fully sealed for use in areas with high levels of moisture and are manufactured from high performance composite materials which conform to the low smoke, toxicity and flammability requirements of the aerospace industry.

The 369 series is complimented by a range of accessories including easy-fit backshells.



■ **Key features**

- 3, 6 and 9 way configurations
- Based on proven ARINC 809 / EN4165
- Aerospace grade composite materials
- Robust design
- Fully sealed cable and mating interface
- Mounting of inline with cable-tie
- Button latching mechanism
- colour-coded keyed shells
- Scoop-proof interface
- Military standard AS39029 contacts
- Latch security feature

■ **Benefits**

- Suitable for broad range of applications
- High reliability in aerospace environment
- Extremely compact and lightweight with low smoke, toxicity and flammability
- Excellent temperature, vibration and fluids resistance
- Suitable for areas where high moisture levels are present
- Simple quick mounting
- Quick positive and audible locking
- Quick and accurate installation of cabling
- Prevents damage to contacts in blind-mating conditions
- Standard termination tooling and wire
- Cable-tie prevents inadvertent un-mating

**Technical characteristics**

■ **Mechanical characteristics**

|                       |                                                          |
|-----------------------|----------------------------------------------------------|
| Operating temperature | : -55°C to +175°C (-67°F to +347°F)                      |
| Fluid resistance      | : I.A.W EN2591-317                                       |
| Sealing               | : 12.1kPa (1.75psi)<br>[≈15km/(50000ft) altitude] / IP67 |
| Vibration             | : EN2591-403, Method B, Level E, 8h/axis                 |
| Smoke & Toxicity      | : I.A.W. FAR 25.853, Appendix F                          |
| Flammability          | : I.A.W. FAR 25.853, Appendix F                          |
| Durability            | : 500 mating cycles                                      |
| Shock                 | : EN2591-402, Method A, severity 100                     |

■ **Material characteristics**

|                                   |                                  |
|-----------------------------------|----------------------------------|
| Shells, Insulators and backshells | : High performance thermoplastic |
| Contacts                          | : Copper alloy, gold plated      |
| Seals                             | : Fluorosilicone rubber          |

■ **Electrical characteristics**

|                           |                                                          |
|---------------------------|----------------------------------------------------------|
| Withstanding voltage, DWV | : 1000V RMS mated after altitude immersion, <2mA leakage |
| Operating current         | : 5 Amps (size 22)                                       |
| Insulation resistance     | : >1GΩ @ 500V DC after altitude immersion                |



Connector ordering example

| D369         |  |  | - P                                               |  |  | 6 6                             |  |  | - N             |  |  | P                                       |  |  | 1                                                       |  |  |
|--------------|--|--|---------------------------------------------------|--|--|---------------------------------|--|--|-----------------|--|--|-----------------------------------------|--|--|---------------------------------------------------------|--|--|
| Range prefix |  |  | Shell Style<br>P : Plug<br>R : In-line receptacle |  |  | Shell Size<br>3 3<br>6 6<br>9 9 |  |  | No. of contacts |  |  | Insert Gender<br>P : Male<br>S : Female |  |  | Contact Style<br>0 : without<br>1 : with crimp contacts |  |  |
|              |  |  |                                                   |  |  |                                 |  |  |                 |  |  |                                         |  |  |                                                         |  |  |

Accessory ordering example

| D369         |  |  | - STB                                      |  |  | - 3                   |  |  |
|--------------|--|--|--------------------------------------------|--|--|-----------------------|--|--|
| Range prefix |  |  | Accessory type<br>Straight backshell : STB |  |  | Shell Size<br>3, 6, 9 |  |  |
|              |  |  |                                            |  |  |                       |  |  |

Contacts

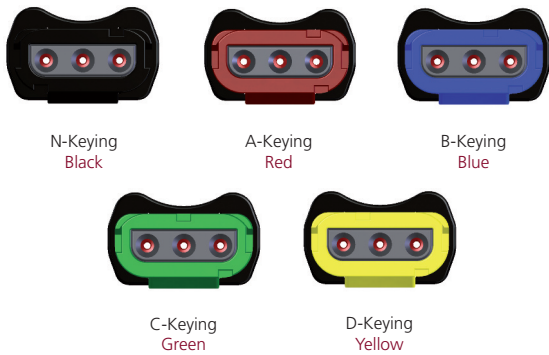
Standard crimp male : AS39029/58-360

Standard crimp female : AS39029/57-354

Keying & Arrangements

Shell keying

View on front of receptacle with female insert



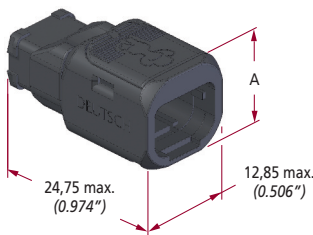
Contact arrangements

View on rear of receptacle with female insert



Dimensions

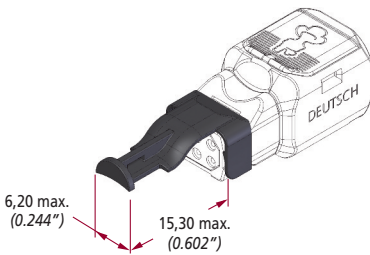
Plug



| Shell size | A max.            | Mass   |
|------------|-------------------|--------|
| 3          | 10,41 mm (0.410") | 1,89 g |
| 6          | 12,95 mm (0.510") | 2,45 g |
| 9          | 15,49 mm (0.610") | 2,98 g |

Mass for 1 male contact = 0,073g  
Recommended cable-tie: 2,5 mm (0.10")

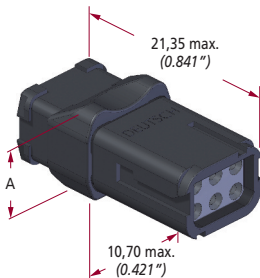
Straight cable-tie backshell



| Shell size | Mass   |
|------------|--------|
| 3          | 0,24 g |
| 6          | 0,25 g |
| 9          | 0,28 g |

Recommended cable-tie: 2,5 mm (0.10")

Inline receptacle



| Shell size | A max.            | Mass   |
|------------|-------------------|--------|
| 3          | 6,52 mm (0.257")  | 0,94 g |
| 6          | 9,06 mm (0.357")  | 1,45 g |
| 9          | 11,60 mm (0.457") | 1,94 g |

Mass for 1 female contact 0,112 g



DEUTSCH

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Contact your local sales office for further information:

### FRANCE

Connecteurs Electriques  
Deutsch  
17, rue Lavoisier BP 117  
27091 Evreux Cedex 09  
FRANCE  
Tel: +33 2 32 23 57 00

### GERMANY

Compagnie Deutsch GMBH  
Fraunhoferstrasse.11b  
82152 Martinsried  
GERMANY  
Tel: +49-89-8991570

### INDIA

DIPC  
104, Prestige Omega, EPIP Zone  
White Field Road  
BANGALORE 560066  
INDIA  
Tel: +91 80 40466501

### ISRAEL

Deutsch ECM  
P.O. Box 5082  
South Industrial Zone  
78150 Ashkelon  
ISRAEL  
Tel: +972-8-6719020

### ITALY

Deutsch Italia  
Viale Jenner 51  
20159 Milano  
ITALY  
Tel: +39-02-39322240

### JAPAN

Deutsch Japan Ltd.  
4-3-28 Nishidai  
Itabashi-ku  
Tokyo 175-0045  
JAPAN  
Tel: +81 (3) 5922-1345

### UNITED KINGDOM

Deutsch UK  
Stanier Road  
St Leonards on Sea  
East Sussex TN38 9RF  
UK  
Tel: +44 (0) 1424 852721

### USA

Deutsch DAO  
250 Eddie Jones Way  
Oceanside, CA 92054  
USA  
Tel: +1 (760) 757-7500

For more information, technical  
assistance or custom solutions:  
email [milaerouk@deutsch.net](mailto:milaerouk@deutsch.net)