

369 series

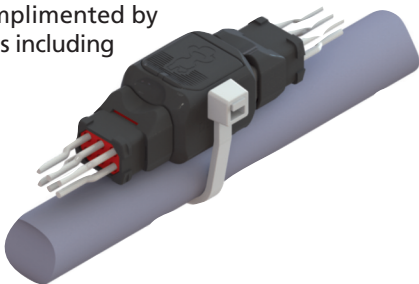


The Deutsch 369® series has been developed to provide a range of high reliability, lightweight, compact and cost-efficient connectors suited to aerospace and other harsh environment applications. The product is particularly suited to civil aerospace cabin systems applications and is based on the successful 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) [≈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 P : Plug R : In-line receptacle			Shell Size 3 3 6 6 9 9			No. of contacts			Insert Gender P : Male S : Female			Contact Style 0 : without 1 : with crimp contacts		

Accessory ordering example

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

Contacts

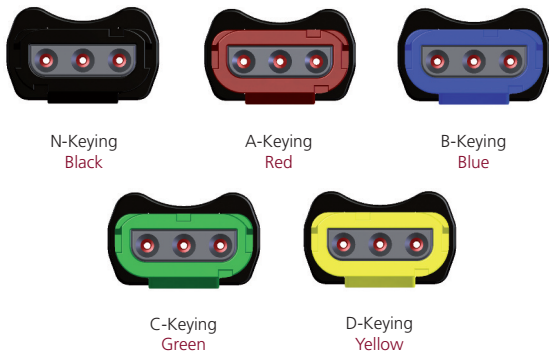
Standard crimp male : AS39029/58-360

Standard crimp female : AS39029/57-354

Keying & Arrangements

Shell keying

View on front of receptacle with female insert



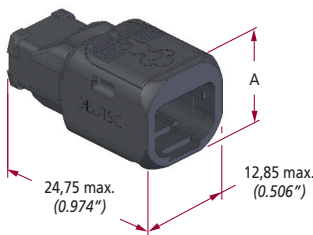
Contact arrangements

View on rear of receptacle with female insert



Dimensions

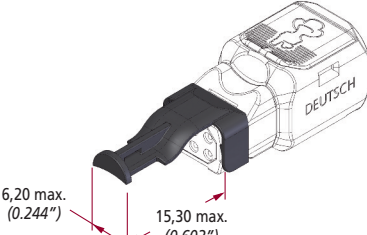
Plug



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")

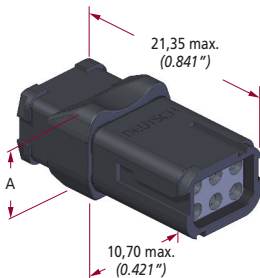
Straight cable-tie backshell



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



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