



# MKJ Clip Lock (MKJ CL) Miniature Circular Connector

Small, Lightweight & Competitively Priced, Our New MKJ CL Connector for Avionics & Cabin System Applications utilizes a Clip Lock Latching System.

## The Challenge

Today's commercial aerospace manufacturers are increasingly challenged to meet the ongoing demand for lighter, high reliability interconnect solutions that support a wide range of modernized Avionics and Cabin System applications. From high speed data and signal transfer for IFE/C, to glass cockpit functionality and aircraft environmental lighting, there is an increasing need for small, lightweight and competitively priced electrical connectors that deliver the highest level of performance, no matter the conditions or environment.

## The Solution

ITT Cannon's new MKJ Clip Lock (MKJ CL) miniature circular connector offers an ideal solution for today's connectivity needs. Our smaller, lighter MKJ CL interconnect features an innovative clip lock latching system that we repurposed from a design originally used for the automotive industry. By eliminating higher cost components, we transformed it into a mil-style connector with a proven snap on positive lock dimension that is both robust and competitively priced.

## The CANNON Difference

- Smaller, lighter design packages and configurations
- Committed partner for off-the-shelf or custom interconnect solutions
- High performance and reliability in the harshest environments

## Key Product Features

- Easy-to-use and install with quick connect clip lock feature
- Multiple keying options prevent mismatching with 6 clocking positions
- Available with diverse contact options - high-density size 23, size 20HD, size 16 or size 12 machined contacts
- Fully machined aluminium or stainless steel shells
- Field repairable
- Plating: Electroless Nickel, Olive Drab Cadmium Black Zinc Nickel and Teflon Nickel

## Markets & Applications



**COMMERCIAL AEROSPACE**  
AVIONICS & CABIN SYSTEMS



**MILITARY**  
SOLDIER-WORN COMMUNICATIONS



**DEFENSE**  
MISSILE SYSTEMS & MUNITIONS



**MEDICAL**  
DIAGNOSTIC & MONITORING EQUIPMENT



# MKJ Clip Lock Miniature Circular Connector



## How to Order | Part Number Configurator



|       |   |   |   |   |      |   |   |    |
|-------|---|---|---|---|------|---|---|----|
| MKJCL | 1 | A | 1 | F | 7-10 | P | A | ** |
|-------|---|---|---|---|------|---|---|----|

### Series

MKJCL MKJ Clip Lock Series

### Coupling

1 Positive Locking

### Class

- A Environmental Plug and Receptacle with Banding/Overmolding Attachment
- B Environmental Plug and Receptacle with Threaded Accessory Attachment
- C Potted Plug - PC/Flex/Solder
- J Non-Environmental (un-sealed) Plug and Receptacle with Banding/Overmolding Attachment
- K Non-Environmental with Threaded Accessory Attachment

### Shell Style

- 1 In-Line Receptacle.
  - 6 Straight Plug.
  - 4 Plug Flange Mount
  - 11 Plug Flange Mount, Rotated 30 Degrees
  - 12 Plug Flange Mount, Rotated 45 Degrees
- Contact ITT for your additional configuration requirements

### Material/Plating

- F Aluminum/Electroless Nickel
- T Aluminum/Teflon Nickel
- W Aluminum/OD Cad
- Z Aluminum/Zinc Nickel, Black
- N Stainless Steel/Electroless Nickel

### Shell Size/Contact Arrangement

- 6-1 1 Size 16
- 6-23 3 Size 20HD
- 6-4 4 Size 23
- 6-6 6 Size 23
- 7-1 1 Size 12
- 7-25 5 Size 20HD
- 7-10 10 Size 23
- 9-4 4 Size 16
- 9-2 10 Size 20HD
- 9-19 19 Size 23

### Contact Style

- P Pin, Crimp, Removable
- S Socket, Crimp, Removable
- B Pin, PC Tail
- D Socket, PC Tail
- E Pin, Solder Cup, Potted, Non-Removable
- F Socket, Solder Cup, Potted, Non-Removable

### Shell Clocking (Position)

|   | Omit for Single Key/Keyway | K1°  | K2°  |
|---|----------------------------|------|------|
| A | Normal                     | 150° | 210° |
| B | Clocking Position B        | 95°  | 210° |
| C | Clocking Position C        | 135° | 270° |
| D | Clocking Position D        | 110° | 245° |
| E | Clocking Position E        | 285° | 285° |
| F | Clocking Position F        | 105° | 255° |

### Modification Codes

- F0 Less Contacts ("F0" not stamped on the connector, but must be included on the P.O.)
- 518 Potted connectors sealed are tested to maintain a helium leak rate of less than  $1 \times 10^{-4}$  cc/second at one atmosphere pressure differential (E & F contact style only)



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CHINA - Shenzhen City  
+86.755.2726.7888

GERMANY - Weinstadt  
+49.7151.699.0

ITALY - Lainate  
+39.02938721

KOREA  
+82.2.702.7111

SHANGHAI  
+ 86.21.2231.2222.2

UK - Basingstoke  
+44.1256.347400

FRANCE  
+33.1.60.04.93.93

HONG KONG  
+852.2732.2720

JAPAN - Kanagawa  
+81.462.57.2010

MEXICO - Nogales  
+52.631.311005

SINGAPORE  
+65 66974205

USA - Irvine, CA  
+1.800.854.3028

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