



# MKJ Clip Lock (MKJ CL) Miniature Circular Connector

Small, Lightweight & Competitively Priced, Our New MKJ CL Connector for Avionics & Cabin System Applications Repurposes Clip Lock Latching System Originally Designed for the Automotive Industry

## 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
- Positive latch or breakaway options
- Multiple keying options prevent mismatching with 6 clocking positions
- Available in 4, 6, 7, 10 & 19 positions with high density size 23 machine contacts
- Also available with 4, size 16 machine contacts
- Fully machined aluminum shells
- Field repairable

## 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



MKJCL1	A	1	F	7-10	P	A	**
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### Series

- MKJCL1 Positive Lock
- MKJCL2 Breakaway/Quick Disconnect

### 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

### Shell Style

- 1 In-Line Receptacle.
  - 6 Straight Plug.
  - 10 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

- C Aluminum/Anodize, Black
- F Aluminum/Electroless Nickel
- T Aluminum/Teflon Nickel
- W Aluminum/OD Cad
- Y Stainless Steel/Electroless Nickel, Black
- Z Aluminum/Zinc Nickel, Black
- N Stainless Steel/Electroless Nickel
- K Stainless Steel/Passivated

### Shell Size/Contact Arrangement

- 6-4 4 Size 23 Contacts
  - 6-6 6 Size 23 Contacts
  - 6-7 7 Size 23 Contacts
  - 7-10 10 Size 23 Contacts
  - 9-4 4 Size 16 Contacts
  - 9-19 19 Size 23 Contacts
- Contact ITT for your additional size requirements

### Contact Style

- P Pin, Crimp, Removable
- S Socket, Crimp, Removable
- B Pin, PC Tail
- D Socket, PC Tail

### Shell Clocking (Position)

		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	150°	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.)
  - F256 Stainless Steel Hood (Socket contact only)
- Consult Factory for other Modification Codes

## Why ITT

ITT is a focused, multi-industrial company that designs and manufactures highly engineered critical components and customized technology solutions. ITT Cannon is a leading global manufacturer of connector products serving international customers in the aerospace and defense, industrial and medical end markets. We design and engineer a variety of interconnect solutions that make it possible to transfer data, signal and power in an increasingly connected world.

Connect with your ITT Cannon representative today or visit [www.ittcannon.com](http://www.ittcannon.com)

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