



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	**
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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 1×10^{-4} cc/second at one atmosphere pressure differential (E & F contact style only)



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