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Cannon MKJ Series: Reduction in weight and size without the loss of reliability & performance











MKJ0 UN Thread

MKI1 Double Start

MKJ3 Bayonet

MKJ4 Breakaway

MKJ5 Triple Start

The MKJ family of mini-circular connectors provides similar electrical and mechanical characteristics as larger and heavier Military Standard Environmental connectors, but in a smaller form factor. Bringing together a unique combination of design, functionality and flexibility. Cannon's MKJ Connectors excel in delivering proven and reliable solutions that perform even in the harshest environments.

Cannon MKJ Connectors are offered in a variety of coupling methods-UNC thread, double start, triple start, bayonet and breakaway-in a highly engineered design. The MKJ Series comes with rear accessory threads or integral band platform for direct attachment of cable shield and overmold.

MKJ's versatility, performance and reliability enable unparalleled functionality for multiple applications and markets.

Why ITT

ITT is a focused, multi-industrial company that designs and manufactures highly engineered critical components and customized technology solutions.

ITT's Cannon brand is a leading global manufacturer of connector products serving international customers in aerospace, defense, medical, industrial and transportation end markets. ITT's Connector business, which also includes the Veam and BIW Connector Systems brand, manufactures and supplies a variety of connectors and interconnects that make it possible to transfer data, signal and power in an increasingly connected world.

The CANNON Difference:

- Proven reliability
- High performance design
- Exceptional versatility
- A commitment to delivering the best solution for standard and custom design requirements

Features:

- 71% weight and 52% size reduction without the loss of reliability*
- Available in rear-release crimp, PC tail or solder cup contacts
- Shells and jam nuts available in aluminum alloy or corrosion resistant stainless steel (AMS-QQ-S763)
- Up to 2,000 mating cycles
- Environmentally sealed using fluorosilicone material for the front interfacial seal and rear wire sealing grommet

Markets & Applications



Soldier-Worn Technology & Connectivity



Military Aircraft, UAVs, **Surveillance & Missile Systems**



Medical Testing & Diagnostics



Industrial & Heavy Equipment



AUTHORISED REPRESENTATIVE:

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How to Order Guide Configurator MKJ1 9-19 Shell Size Shell Series Class Shell Style Material/ Modifications Contact Style **Plating** Contact Clocking Arrangement MKIO - Threaded Coupling, UN Thread MKJ1 - Threaded Coupling, Double Start ACME Thread MKJ3 - Bayonet Coupling MKJ4 - Breakaway/Quick Disconnect MKJ5 - Threaded Coupling, Triple Start ACME Thread A - Environmental Plug & Receptacle with Banding/Overmolding Attachment B - Environmental Plug & Receptacle with Threaded Accessory Attachment C - Back-Potted Plug/Receptacle - PC/Fley/Solder D - C Filtered Receptacle - Fixed Contacts E - L Filtered Receptacle - Fixed Contacts F - Pi Filtered Receptacle - Fixed Contacts G - Space H - Hermetically Sealed Receptacle - Fixed Contacts SHELL STYLE 8 - Jam Nut Receptacle - Front Panel Mount (MKJ4 series only) 9 - Jam Nut Plug - Rear Panel Mount (MKJ4 series only) 10 - Jam Nut Plug - Front Panel Mount (MKJ4 series only) 16 - Straight Plug with Self-Locking Coupling Nut (MKJ0 series only) 26 - Straight Plug with Self-Ratchet Coupling Nut (MKJ1 series only) 3 - In-Line Receptacle 2 - Box Mount Receptacle (Square Flange) 3 - Receptacle, Round, Solder Mount 4 - Box Mount Plug (Flange) 6 - Straight Plug 7 - Jam Nut Receptacle - Rear Panel Mount MATERIAL/PLATING - Aluminum/Anodize, Black - Aluminum/Electroless Nickel - Stainless Steel/Passivated - Aluminum/Teflon Nickel W - Aluminum/OD Cad Y - Stainless Steel/Electroless Nickel, Black N - Stainless Steel/Electroless Nickel NT Series MKJ0, MKJ1, MKJ3, MKJ4 Series MKJ5 Series MKJ0, MKJ1, MKJ3, MKJ4 Series MKJ5 Series MKJ0, MKJ1, MKJ3, MKJ4 Series MKJ5 Series MKJ0, MKJ1, MKJ3, MKJ4 Series MKJ5 Series MKJ0, MKJ1, MKJ3, MKJ4 Series MKJ5 Series MKJ0, MKJ1, MKJ3, MKJ4 Series MKJ5 Series MKJ0, MKJ1, MKJ3, MKJ4 SHELL SIZE & CONTACT ARRANGEMENT Size 23 Contacts Size 20 Contacts Size 20 Contacts 26 Size 23 Contacts 37 Size 23 Contacts 20 Size 20 Contacts 2 Size 12 Contacts 3 Size 12 Contacts 7 Size 16 Contacts Series MKJ5 Series MKJ0, MKJ3, MKJ4 Series MKJ0, MKJ3, MKJ4 Series MKJ1 Series MKJ1 Series MKJ1 5-3 6-1 6-4 6-6 6-7 6-23 7-10 7-25 8-1 8-2 8-4 8-6 8-7 8-13 8-28 9-1 9-10-9 10-2 10-2 10-2 10-13 10-26 11-4 11-9 11-210 12-26 12-37 13-2 13-3 13-7 13-37 13-37 14-5 14-5 14-5 14-23 15-3 15-3 15-3 15-3 15-5 16-5 16-12 16-5 16-12 16-12 16-12 17-7 17-14 18-5 17-241 12 Contacts 23 Contacts 20 Contacts 16 Contacts 16 Contacts 23 Contacts 23 Contacts 23 Contacts 23 Contacts 20 Contacts 20 Contacts 20 Contacts 20 Contacts 20 Contacts 20 Contacts 21 Contacts 22 Contacts 23 Contacts 26 Contacts 27 Contacts 28 Contacts 29 Contacts 20 Contacts 21 Contacts 22 Contacts 23 Contacts 23 Contacts 24 Contacts 26 Contacts 27 Contacts 28 Contacts 29 Contacts 20 Contacts 37 Size Size 23 Contacts 20 Contacts Series MKJ1 Series MIX I Series MKJ3, MKJ4 Series MKJ3, MKJ4 Series MKJ3, MKJ4 Series MKJ3, MKJ4 Series MKJ5 Series MKJ5 Series MKJ5 10 Size 20 Size Size Size Size Size Size 5 Size 12 Size 55 Size 55 Size 35 Size 2 Size 3 Size 7 Size 20 Contacts 12 Contacts 16 Contacts 23 Contacts 20 Contacts 12 Contacts Size 12 Contacts Series MKJ5 Series MKJ5 Series MKJ0, MKJ3, MKJ4 Series MKJ0, MKJ3, MKJ4 Series MKJ1 Series MKJ1 Series MKJ1 13 Size 16 Contacts 3 Size 3 Size 8 Size 1 Size 4 Size 10 Size 19 Size 37 Size 37 Size 55 Size 20 Size 41 Size 5 Size 12 Size 55 Size 23 Contacts 23 Contacts 20 Contacts 20 Contacts 12 Contacts 16 Contacts Size Series MKJ5 23 Contacts 20 Contacts Series MKJ1 5 Size 10 Size 2 Size 2 Size 5 Size 13 Size Series MKJD, MKJ1, MKJ3, MKJ4 Series MKJ0, MKJ1, MKJ3, MKJ4 Series MKJ0, MKJ1, MKJ3, MKJ4 Series MKJ0, MKJ1, MKJ3, MKJ4 Series MKJ5 Series MKJ0, MKJ1, MKJ3, MKJ4 35 Size 35 Size 7 Size 14 Size 85 Size 41 Size 5 Size 12 Size Series MKJ1 Series MKJ1 Series MKJ1 Series MKJ1 Series MKJ1 Series MKJ1 Series MKJ5 20 Contacts 12 Contacts 16 Contacts 23 Contacts 20 Contacts 12 Contacts 13 Size 26 Size Size Size Series MKJ5 16 Contacts Series MKJ5 Series MKJ5 Series MKJ5 Series MKJ5 Series MKJ5 Series MKJ0, MKJ3, MKJ4, MKJ5 Series MKJ0, MKJ3, MKJ4 Series MKJ5 Series MKJ5 Series MKJ5 Series MKJ5 Series MKJ5 16 Contacts 23 Contacts 23 Contacts 18-235 19-7 19-14 19-85 19 Size 10 Size 2 Size 3 Size 35 Size 7 Size 14 Size 85 Size 20 Contacts 20 Contacts 12 Contacts 12 Contacts 19-241 41 Size 20 Contacts 12-5 12-7 Size Size 16 Contacts 16 Contacts Series MKJ5 Series MKJ0, MKJ3, MKJ4 Series MKJ5 CONTACT STYLE CONIACT STIE P - Pin, Crimp, Removale (For Class A & B only) S - Socket, Crimp, Removable (For Class A & B only) A - Pin, PC Tail, .062 Extension (For Class C through G only) B - Pin, PC Tail, .109 Extension (For Class C through G only) C - Socket, PC Tail, .062 Extension (For Class C through G only) D - Socket, PC Tail, .109 Extension (For Class C through G only) E - Pin, Solder Cup (For Class C through G only) F - Socket, Solder Cup (For Class C through G only) SHELL CLOCKING (POSITION) MKJ0 Series N - I Omit for Single Key/Keyway - Normal - Clocking Position X - Clocking Position Y - Clocking Position Z - Normal - Clocking Position B - Clocking Position C - Clocking Position D - Clocking Position E - Clocking Position F - Clocking Position F 150° - 210° 75° - 210° 95° - 230° 140° - 275° 75° - 275° 95° - 210° 150° - 210° 95° - 230° 140° - 275° A - Normal B - Clocking Position B C - Clocking Position D E - Clocking Position D E - Clocking Position E F - Clocking Position F A - Normal MKI1 Series 150° - 210° 150° - 210° 75° - 210° 95° - 230° 140° - 275° 75° - 275° 95° - 210° Normal Normal Clocking Position B Clocking Position C Clocking Position D Clocking Position E Clocking Position F Normal Clocking Position X Clocking Position Y Clocking Position Z 150° - 210° 75° - 210° 95° - 230° 140° - 275° MKJ3 Series 140° - 275° 275° 210° MODIFICATION CODE 518 - Class "C" PC style back potted receptacle connectors with water immersion testing. Less Contacts ("F0" not stamped on the connector, but must be included on the P.O.) Consult factory for other modification codes

Connect with your ITT Cannon representative today or visit us at www.ittcannon.com

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