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











MKJ0 UN Thread

MKJ1 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 Interconnect Solutions' Cannon brand is a leading global manufacturer of connector products serving international customers in the aerospace and defense, medical, energy, transportation and industrial end markets. ITT's Interconnect Solutions business manufactures and supplies a variety of connectors and interconnects that make it possible to transfer data, signal and power in an increasingly connected world, including its VEAM and BIW Connector Systems brands.

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-S 763)
- 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

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| How to Order Guide | | | | | | | | |
|--|---|--|-------------------------|--|--|---|---|--|
| nfigurator | MKJ1 - | A Class | 7 Shell Style | F Material | 9-19 | P P | A Shell | ** Modificatio |
| | Series | Cluss | Shell Style | Plating | Contact Arrangement | Contact Style | Clocking | Wouncati |
| ERIES IKJO - Threaded Coupling, UN Thread IKJ1 - Threaded Coupling, Double Start IKJ3 - Bayonet Coupling | ACME Thread | | | | kaway/Quick Disconnect aded Coupling, Triple St | | | |
| LASS - Environmental Plug & Receptacle with - Back-Potted Plug/Receptacle - PC/Flex/ - C Filtered Receptacle - Fixed Contacts | n Banding/Overmolding Threaded Accessory At Solder | Attachment tachment | | F - Pi Filtereo G - Space | Receptacle - Fixed Cont Receptacle - Fixed Con ally Sealed Receptacle - | tacts | | |
| HELL STYLE - In-Line Receptacle - Box Mount Receptacle (Square Flange Receptacle, Round, Solder Mount - Box Mount Plug (Flange) - Straight Plug - Jam Nut Receptacle - Rear Panel Mour | | | | 9 - Jam Nu 10 - Jam Nu | t Receptacle - Front Pan t Plug - Rear Panel Mou t Plug - Front Panel Mou t Plug with Self-Locking t Plug with Self-Ratchet | nt (MKJ4 series only) unt (MKJ4 series only) | | |
| IATERIAL/PLATING - Aluminum/Anodize, Black - Aluminum/Electroless Nickel - Stainless Steel/Passivated - Aluminum/Teflon Nickel | | | | Z - Aluminu | ım/OD Cad s Steel/Electroless Nickel, ım/Zinc Nickel, Black s Steel/Electroless Nickel | Black | | |
| HELL SIZE & CONTACT ARRANGEMEN 33 3 Size 23 Contacts 54 4 Size 23 Contacts 56 6 Size 23 Contacts 57 7 Size 23 Contacts 523 3 Size 20 Contacts 57 7 Size 23 Contacts 523 3 Size 20 Contacts 524 1 Size 20 Contacts 74 1 Size 20 Contacts 740 10 Size 23 Contacts 725 5 Size 20 Contacts 74 1 Size 23 Contacts 74 1 Size 23 Contacts 74 7 Size 23 Contacts 7 7 Size 20 Contacts 7 7 Size 20 Contacts 73 Size 20 Contacts 74 10 Size 20 Contacts 7 Size </td <td>NT Series MKJ0, MKJ1, M Series MKJ5 Series MKJ5 Ser</td> <td> KII3, MKJ4 KI3, MKJ4 KI4, MKJ5 KI4 </td> <td></td> <td>12-26 12-37 12-220 13-2 13-3 13-7 13-37 13-220 14-5 14-12 14-55 14-12 14-235 15-7 15-55 15-220 15-241 16-5 16-12 16-55 16-235 16-235 17-7 17-14 17-85 17-241 18-55 18-235 19-7 19-14 19-85 19-241</td> <td>26 Size 23 Contacts 37 Size 20 Contacts 2 Size 12 Contacts 3 Size 12 Contacts 3 Size 12 Contacts 3 Size 12 Contacts 5 Size 23 Contacts 5 Size 20 Contacts 5 Size 20 Contacts 3 Size 12 Contacts 3 Size 20 Contacts 3 Size 12 Contacts 3 Size 12 Contacts 3 Size 12 Contacts 3 Size 12 Contacts 3 Size 20 Contacts 5 Size 23 Contacts 5 Size 23 Contacts 5 Size 23 Contacts 5 Size 20 Contacts 5 Size 20 Contacts 5 Size 20 Contacts 5 Size 20 Contacts 5 Size 12 Contacts 5 Size 12 Contacts 5 Size 23 Contacts 7 Size 12 Contacts 7 Size 12 Contacts 7 Size 12 Contacts 7 Size 23 Contacts</td> <td>Series MKJ1 Series MKJ1 Series MKJ1 Series MKJ1 Series MKJ1 Series MKJ3, MK Series MKJ3, MK Series MKJ3, MK Series MKJ5 Series MKJ5 Series MKJ5 Series MKJ5 Series MKJ1 Series MKJ5 Series MKJ5 Series MKJ5 Series MKJ5</td> <td>J3, MKJ4 J4 J4 J4 J4 J3, MKJ4</td> <td>OHS MIPLIANT THUMBERS</td> | NT Series MKJ0, MKJ1, M Series MKJ5 Series MKJ5 Ser | KII3, MKJ4 KI3, MKJ4 KI4, MKJ5 KI4 | | 12-26 12-37 12-220 13-2 13-3 13-7 13-37 13-220 14-5 14-12 14-55 14-12 14-235 15-7 15-55 15-220 15-241 16-5 16-12 16-55 16-235 16-235 17-7 17-14 17-85 17-241 18-55 18-235 19-7 19-14 19-85 19-241 | 26 Size 23 Contacts 37 Size 20 Contacts 2 Size 12 Contacts 3 Size 12 Contacts 3 Size 12 Contacts 3 Size 12 Contacts 5 Size 23 Contacts 5 Size 20 Contacts 5 Size 20 Contacts 3 Size 12 Contacts 3 Size 20 Contacts 3 Size 12 Contacts 3 Size 12 Contacts 3 Size 12 Contacts 3 Size 12 Contacts 3 Size 20 Contacts 5 Size 23 Contacts 5 Size 23 Contacts 5 Size 23 Contacts 5 Size 20 Contacts 5 Size 20 Contacts 5 Size 20 Contacts 5 Size 20 Contacts 5 Size 12 Contacts 5 Size 12 Contacts 5 Size 23 Contacts 7 Size 12 Contacts 7 Size 12 Contacts 7 Size 12 Contacts 7 Size 23 Contacts | Series MKJ1 Series MKJ1 Series MKJ1 Series MKJ1 Series MKJ1 Series MKJ3, MK Series MKJ3, MK Series MKJ3, MK Series MKJ5 Series MKJ5 Series MKJ5 Series MKJ5 Series MKJ1 Series MKJ5 Series MKJ5 Series MKJ5 Series MKJ5 | J3, MKJ4 J4 J4 J4 J4 J3, MKJ4 | OHS MIPLIANT THUMBERS |
| Pin, Crimp, Removale (For Class A & B - Socket, Crimp, Removable (For Class A - Pin, PC Tail, .062 Extension (For Class - - Pin, PC Tail, .109 Extension (For Class - | & & B only) C through G only) | | | D - Socket, F E - Pin, Sold | C Tail, .062 Extension (F C Tail, .109 Extension (F er Cup (For Class C throu older Cup (For Class C th | or Class C through G o ugh G only) | nly) nly) | |
| HELL CLOCKING (POSITION) VIKJO Series N - Normal X - Clocking Y Y - Clocking Y Z - Clocking C VIKJ1 Series A - Normal B - Clocking C C - Clocking C F - Clocking C VIKJ3 Series N - Normal X - Clocking Y Clocking Y Clocking C Z - Clocking C Z | Position Y Position Z Position B Position C Position D Position F Position X Position Y | 150° - 210 75° - 210° 95° - 230° 140° - 275 95° - 210° 150° - 211 75° - 210 95° - 220 140° - 27 | 5° | MKJ4 Serie MKJ5 Serie | A - Norr B - Cloc D - Cloc E - Cloc F - Cloc s A - Norr B - Cloc C - Cloc D - Cloc E - Cloc | king Position B king Position C king Position D king Position E king Position F | 75° - 95° - 140° 75° - 95° - 150° 75° - 95° - 140° 75° - | - 210° 230° - 275° 275° 210° - 210° 230° - 275° 275° 275° 275° |
| MODIFICATION CODE F0 - Less Contacts ("F0" not stamped on the connector, but must be included on the P.O.) | | | | 518 - Class "C" PC style back potted receptacle connectors with water immersion testing. | | | | |
| |) Consult factory for other modification codes E - 1,650 - 2,500 G - 200 - 300 | | | | | | | |

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

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