ITT Cannon MKJ Series Micro-Miniature Circular Connectors



D38999 PERFORMANCE IN A MUCH SMALLER PACKAGE

ITT Cannon MKJ line of micro-miniature circular connectors offer high-density contact arrangements in a light-weight miniature connector. Reduced in weight by 71% and size by 52% as compared to the D38999 22 size layout, these connectors do not sacrifice environmental performance or reliability. The MKJ micro-miniature series is available in three coupling methods: threaded, bayonet, and breakaway. ITT Cannon MKJ micro-miniature circular connectors come with rear accessory threads or integral band platform for direct attachment of cable shield and overmold. Integral band platform allows direct attachment of cable shield to connector. Available in a wide range of materials and finishes, the MKJ series is the rugged connector used in defense, aerospace, medical, and industrial applications. For full details on the ITT Cannon MKJ Series Micro-Miniature Circular Connectors, please see the product specifications below.

APPLICATIONS

- Sensors
- Satellites
- Instrumentation
- Missile systems
- Avionic systems
- Soldier technology
- Industrial equipment

- Unmanned aviation vehicles
- Navigation and Telemetry equipment
- Medical test and diagnostic equipment
- Ruggedized computers and hand held communication equipment
- Commercial & Military aircraft electronics

FEATURES

- Available in split-tine and PC tail/solder cup contact designs
- Contacts meet MIL-C-39029 specifications
- Internal ratchet mechanism engineered to be comparable to MIL-DTL-38999 shock and vibration requirement
- Multiple keying position
- Well suited to harsh environments
- · Wide range of protective accessories and finishes
- High density of contacts

FEATURES (CONT.)



TECH SPECS

MATERIALS & FINISHES

Shells	Aluminum alloy or stainless steel			
Shell Plating	Anodized Black, Electroless Nickel, Passivated, Teflon Nickel, Olive Drab Cadmium, Nickel Black			
Insulators	Thermoplastic			
Seals	Flourosilicone			
Contacts and Plating	Copper Alloy with gold over nickel plating			
ELECTRICAL DATA				

Contact Resistance 8 Milliohms Insulation Resistance 5000 megaohms RMS sea level

Salt Spray Test

48 hrs; Anodized black, Electroless Nickel, 500 hrs; Olive Drab Cadmium,
Teflon Nickel, Zinc Nickel Black, 1000 hrs; Stainless steel

CONTACT SIZE	SPACING	CURRENT RATING	WIRE ACCOMMODATION	SEALING RANGE	OPERATING VOLTAGE RATING*
#23	.076"	5 Amps	#22 - 28 AWG	.030051	500 VAC
#20	.106"	7.5 Amps	#20 - 24 AWG	.040083	750 VAC
#16	.170"	13 Amps	#16 - #20 AWG	.065109	1800 VAC
#12	.230"	23 Amps	#12 - #14 AWG	.097142	1800 VAC

^{*}At sea level

MECHANICAL DATA

Operating Temperature	emperature -55°c to +150°c		
Shock/Vibration	300g / 37g		
Mating Cycle	250 Aluminium / 2000 Stainless Steel		
Clocking Position	Master Key and 2 Secondary Keys. 4 Clocking Positions		
Housing Materials	Aluminum and Stainless Steel		
Polarization	Keys and keyways		
Sealing	1 meter water immersion for 1 hour (MKJ 3 Splash Proof only)		