





MKJ Series Overview

Versatility, performance and reliability in a miniaturized footprint, enables unparalleled functionality.











The MKJ family of miniature 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. The MKJ series comes with rear accessory threads or integral band platform for direct attachment of cable shield and overmold.

Key Features

- Plugs and receptacles are environmentally sealed for use in the harshest environments
- RoHS-compliant configurations
- Teflon nickel, black zinc nickel and olive drab cadmium plating maintain robust reliability for 500 hours of salt spray
- Qualified to US Nett Warrior specification, European GOSSRA and NATO STANAG 4695 standards
- EMI shielding up to 40dB attenuation, 100MHz to 1000MHz
- PCB mount jam nut for enhanced EMI and vibration resistance performance
- Cable assemblies and application specific shell configurations available















Configuration	MKJ0	MKJ1	МКЈЗ	MKJ4	MKJ5	MKJ Clip Lock	MKJ Warrior		
Coupling	UNC thread	Double start	Bayonet	Breakaway	Triple start	Clip latching	Breakaway		
Hardware	Aluminum/stainless steel								
Mating cycles	250 Aluminum 2000 2000 2000 Stainless Steel		2000	500	500	2000			
Materials	Shells - Aluminum alloy or stainless steel I Insulators - thermoplastic Seals - fluorosilicone I Contacts - copper alloy with gold over nickel plating								
Plating	Black anodized - black passivated, teflon nickel, OD cadmium over electroless nickel, electroless nickel - black, Zinc nickel-black (RoHS-compliant), zinc nickel-black (non-RoHS-compliant), selective plating (MKJ Warrior)								
EMI shielding	ielding Good Good Good		Good	Excellent	Excellent	N/A	Excellent		

ITT Cannon MKJ Ordering Guide

1-Series	2- Coupling	3- Class	4- Shell Style	5- Plating	6- Arrangement	7- Contact Style	8- Clocking	9- MOD Codes
MKJ	1	А	6	F	9-19	Р	А	- F0

1 - Series						
MKJ MKJ Series - Miniature circular connector						
2 - Coupling*						
0 Threaded coupling, UN thread 3 Bayonet		5 Threa	ded coupling,	triple start		
1 Threaded coupling, double start thread 4 Breakaway/quick disconnect		_	Clip Lock, locking			
3- Class						
A Environmental w/banding/overmold attachment B Environmental with threaded accessory attachment		C- Back-	potted plug/re	ceptacle - PC/	flex/solder	
J Non-enviornmental w/banding/overmold attachment K Non-enviornmental w/threaded accessory attachment (MK/CL1 only)				·		
4 - Shell style						
1 In-Line receptacle 7 Jam nut receptacle - rear panel mount	1	12 Box n	nount plug (fla	nge), 45-deg	rotation (MKJ	CL1 only)
2 Box mount receptacle (square flange) 8 Jam nut receptacle - front panel mount (MKJ4 only)	1	16 Straig	Straight plug w/self-locking coupling nut (MKJ0 only)			
3 Receptacle, round, solder mount 9 Jam nut plug - rear panel mount (MKJ4 only)	2	26 Straig	traight plug w/self-ratchet coupling nut (MKJ1 only)			
4 Box mount plug (flange) 10 Jam nut plug - front panel mount (MKJ4 only)	7		Dual flange mount - Jam nut receptacle with secondary			condary
6 Straight plug 11 Box mount plug (flange) , 30-deg rotation (MKJCL1 only	y)	PCB r	mounting (clas	s C and MKJ1,	/MKJ5 only)	
5 - Plating						
C Aluminum/anodized, black T Aluminum/teflon nickel	Z	ZN Alum	inum/zinc nick	el, green (not	RoHS)	
F Aluminum/electroless nickel W Aluminum/olive drab cadmium						
K Stainless steel/passivated Y Stainless steel/electroless nickel, black						
N Stainless steel/electroless nickel Z Aluminum/zinc nickel, black						
6- Standard arrangements for combo arrangements, please contact the factory						
Contact QTY MKJ1 MKJ0, 3, MKJ5 Contact QTY MKJ1 MKJ0, 3, size 4, CL 4, CL	MKJ5	Contact size	QTY	MKJ1	MKJ0, 3, 4, CL	MKJ5
23 3 5-3 5-3 N/A 20HD 5 7-25 7-25	9-25	16	19	19-19	19-19	21-19
23 4 6-4 6-4 8-4 20HD 8 8-28 8-28	10-28	16	22	21-22	21-22	23-22
23 6 6-6 6-6 8-6 20HD 10 9-210 9-210 1	11-210	12	1	7-1	7-1	9-1
	15-220	12	2	10-2	10-2	12-2
	18-235	12	2	13-2	12-2	15-2
	19-241	12	3	13-3	12-3	15-3
	21-255	12	4	16-4	14-4	18-4
	23-269	12	5	16-5	14-5	18-5
23 31 11-31 11-31 13-31 16 1 6-1 6-1	8-1 10-2	12	7	17-7	N/A	19-7
23 37 13-37 12-37 15-37 16 2 8-2 8-2 23 55 16-55 14-55 18-55 16 4 9-4 9-4	11-4	12	12	21-12	N/A	23-12
23 85 17-85 N/A 19-85 16 5 10-5 10-5	12-5					
23 100 19-100 N/A 21-100 16 7 13-7 12-7	15-7					
	18-12					
	19-14					
7 - Contact style						
P Pin, crimp, removeable (class A&B) A Pin, PC-tail, .062 extension (class C)		D	Socket, PC-ta	ail, .109 exten	sion (class C)	
S Socket, crimp, removeable (class A&B) B Pin, PC-tail, .109 extension (class C)		Н	Socket, PC-ta	ail, .125 exten	sion (class C)	
E Pin, solder cup G Pin, PC-tail, .125 extension (class C)						
F Socket, solder cup C Socket, PC-tail, .062 extension (class C)						
8- Clocking						
MKJ0 and MKJ3 MKJ1, MKJ4, MKJ5,			MKJCL1			
Position K1°/K2° Position K1°/K2° N 150°/310° A/Normal) 150°/310°			Position K1°/K2°			
N 150°/210° A (Normal) 150°/210° X 75°/210° B 75°/210°	-		A 150°/210			
Y 95°/230° C 95°/230°	-		B 95°/210° C 135°/270			
Z 140°/275° D 140°/275°	-		D 110°/24			
E 75°/275°		E F			150° / 285° 150° / 255°	
F 95° / 210°			MKICI 1 Omit	for master ke	y/keyway only	
F 95° / 210° MKJ4 Omit for single key / Keyway option			WINGCET OTHER			
· · · · · · · · · · · · · · · · · · ·			WIIGEET OHIIG			

Please reference MKJ Warrior catalog for available part numbers

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