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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
- MKJ Warrior designed to Nett Warrior specifications and qualified to 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	МКЈО МКЈ1		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	2000	2000	250 Aluminum 2000 Stainless Steel		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	Good	Good	Good	Excellent	Excellent	N/A	Excellent				

ITT Cannon MKJ Ordering Guide

1-Se		2- Couplii	·g 5-	Class	4- Shell	Style	5- Plating	Arra	6- ngement		Styl		8- Clockin	C	MOD odes
Μ	KJ	1		A	6		F		9-19		Р		A		- F0
Serie	es														
JM	1KJ Series - Mini	ature circula	r connector												
Cou	pling*														
	Threaded coupling, UN thread 3									Threaded coupling, triple start					
	Threaded coupling, double start thread 4					//quick discor	nect		CL1	Clip Lock, locking					
Class															
_	Environmental w/banding/overmold attachment B					Environmental with threaded accessory attachment						potted plug/re	eceptacle - PC,	/flex/solder	
	on-enviornmenta /IKJCL1 only)	l w/banding/o	vermold attachm	nent K	(MKJCL1 o		hreaded acces	sory attachme	ent						
-	ll style					<i>,,</i>									
	-Line receptacle	2		7	Jam nut re	eceptacle - rea	ar panel moun	t		12	Box m	nount plug (fla	ange), 45-deq	rotation (MKJ	CL1 only
	ox mount recep			8	Jam nut re	Jam nut receptacle - front panel mount (MKJ4 only)					Box mount plug (flange), 45-deg rotation (MKJCL1 o Straight plug w/self-locking coupling nut (MKJ0 only)				
Receptacle, round, solder mount Box mount plug (flange)				9		Jam nut plug - rear panel mount (MKJ4 only) Jam nut plug - front panel mount (MKJ4 only)					Straight plug w/self-ratchet coupling nut (MKJ1 only Dual flange mount - Jam nut receptacle with second				
_	ox mount plug (traight plug	(nange)		10		• ·	nel mount (Mi e) , 30-deg rota	,	only)			nounting (class			condary
Plati					1	,	,,		,,						
	<u> </u>	zed, black		T	Aluminum	/teflon nickel				ZN	Alumi	num/zinc nick	el, areen (not	RoHS)	
		minum/anodized, black T Aluminum/teflon nickel minum/electroless nickel W Aluminum/olive drab cadmium										, green (101			
_	tainless steel/passivated Y Stainless steel/electroless nickel, black														
	tainless steel/ele			Z		/zinc nickel, k									
	dard arrang				· · · · · · · · · · · · · · · · · · ·			141/10-2				074		A MICE O	
ntact size	QTY	MKJ1	MKJ0, 3, 4, CL	MKJ5	Contact size	QTY	MKJ1	MKJ0, 3, 4, CL	MKJ5		ntact ze	QTY	MKJ1	MKJ0, 3, 4, CL	MK
23	3	5-3	5-3	N/A	20HD	5	7-25	7-25	9-25	1	6	19	19-19	19-19	21-1
23	4	6-4	6-4	8-4	20HD	8	8-28	8-28	10-28		6	22	21-22	21-22	23-2
23 23	6	6-6 6-7	6-6	8-6 8-7	20HD 20HD	10 20	9-210 13-220	9-210 12-220	11-210	_	2	1	7-1	7-1	9-1 12-
23	10	7-10	7-10	9-10	20HD 20HD	35	16-235	12-220	18-235		2	2	13-2	12-2	12-
23	13	8-13	8-13	10-13	20HD	41	17-241	N/A	19-241		2	3	13-3	12-3	15-
23	19	9-19	9-19	11-19	20HD	55	19-255	N/A	21-255		2	4	16-4	14-4	18-
23 23	26	10-26 11-31	10-26	12-26 13-31	20HD 16	69	21-269 6-1	N/A 6-1	23-269 8-1	_	2	5	16-5 17-7	14-5 N/A	18- 19-
23	37	13-37	12-37	15-37	16	2	8-2	8-2	10-2	_	2	12	21-12	N/A	23-1
23	55	16-55	14-55	18-55	16	4	9-4	9-4	11-4						
23 23	85	17-85 19-100	N/A N/A	19-85 21-100	16 16	5	10-5	10-5 12-7	12-5 15-7						
23	130	21-130	N/A	23-130	16	12	16-12	14-12	18-12						
0HD	3	6-23	6-23	8-23	16	14	17-14	15-14	19-14						
	tact style										D				
> -		n, crimp, removeable (class A&B)				A Pin, PC-tail, .062 extension (class C) B Pin, PC-tail, .109 extension (class C)						Socket, PC-tail, .109 extension (class C) Socket, PC-tail, .125 extension (class C)			
5	Socket, crimp, removeable (class A&B) Pin, solder cup										Н	SUCKET, PC-TA	aıı, .125 exter	ISION (CIASS C)	
-	Socket, solder						2 extension (c								
Clocl	king														
	Ν	/KJ0 and MI	KJ3			M	KJ1, MKJ4, MK	J5,					MKJCL1		
Position K1° / K2°				Position K1° / K2° 1 (No. 100) 150% (210%)						Position K1° / K2°					
N 150° / 210° X 75° / 210°				A (Normal) 150° / 210° B 75° / 210°						A 150°/210° B 95°/210°					
Y 95°/230°				C 95°/230°						C 135°/270°					
	Z		140°/27			D		140°/27	′5°			D		110°/24	·5°
				E 75°/275° F 95°/210°						E			150°/28		
					F 95° / 210° MKJ4 Omit for single key / Keyway option						F 105° / 255° MKJCL1 Omit for master key/keyway only				
Mo	dification co	de			·		<u>,</u> , /	, , , , , , , , , , , , , , , , , , , ,						, , <u>, , .</u>	
				ector,		"C" PC style I									

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