

cannon

MKJ0 Series
Connectors Catalog



ITT

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Medical Equipment



Marine Vessels



Rail



Soldier-Worn Systems



Unmanned Systems



Heavy Equipment



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MKJO

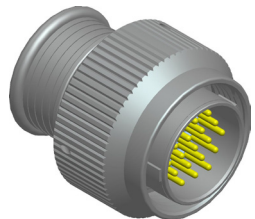
UNC Thread

The MKJO Series is a lightweight, high-density interconnect solution that utilizes a vibration-resistant, UN threaded coupling mechanism and can accommodate size 12, 16, 20HD and 23 crimp or PCB contacts. MKJO Series Connectors comes with 6 shell style options including a rear accessory thread or integral band platform for direct attachment of cable shield and overmold.

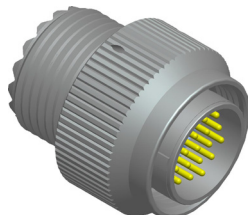


Features & Benefits

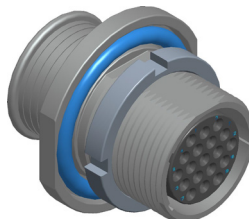
- Single UN Thread Coupling.
- 6 Shells sizes and 23 contact arrangements.
- Up to a 52% smaller and 71% lighter.
- Prevent miss-mating with 4 clocking / polarization options.
- PCB layouts offer 3 lengths for robust mounting options.
- Flexible arrangements for data and power connectivity.



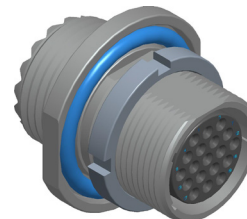
Straight Plug - Banded



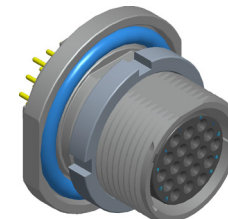
Straight Plug - Threaded



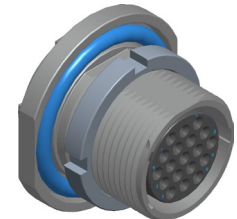
Jam Nut Receptacle
Rear Panel Mount - Banded



Jam Nut Receptacle
Rear Panel Mount
Accessory Thread



Jam Nut Receptacle
Rear Panel Mount PCB
PC Tail



Jam Nut Receptacle
Rear Panel Mount PCB
Solder Cup

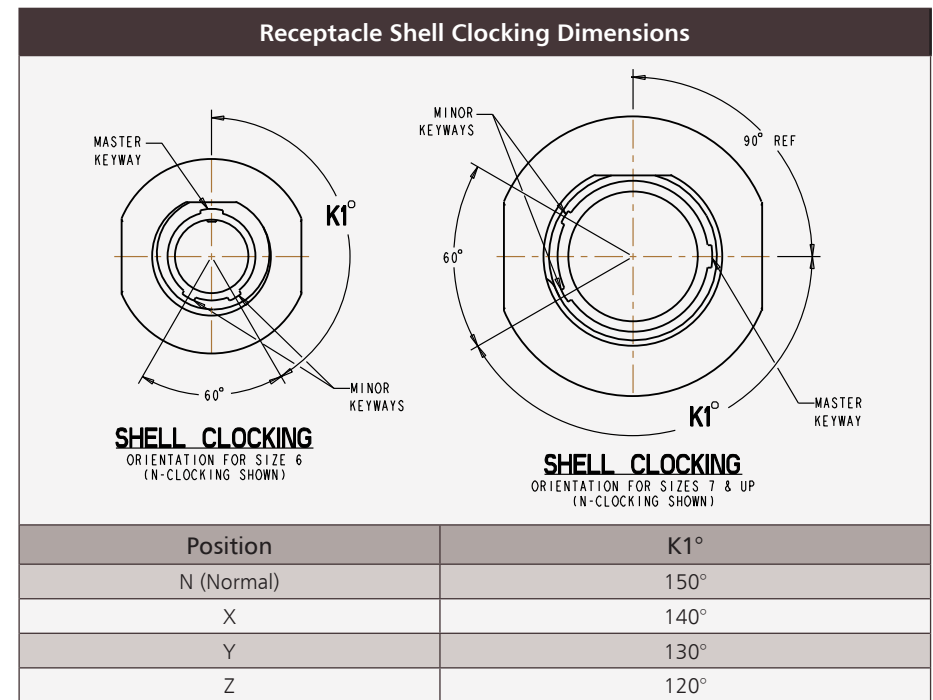
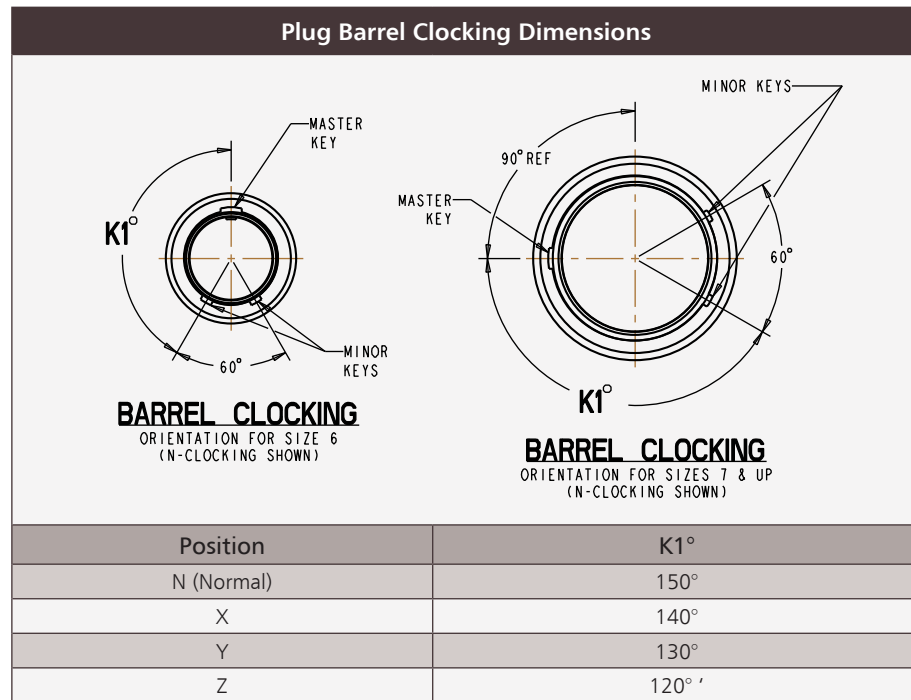
MKJO - Ordering Guide

Part Number Configurator

1- Series	2- Coupling	3- Class	4- Shell Style	5- Plating	6- Arrangement	7- Contact Style	8- Clocking	9- MOD Codes
MKJ	0	A	6	F	7-10	P	N	-F0

1- Product		6- Standard Arrangements (For Combo, please reference page 10)		7- Contact Style	
MKJ	MKJ Series	5-3	3 Size 23 Contacts	P	Pin, Crimp, Removable (Class A & B)
2- Coupling		6-4	4 Size 23 Contacts	S	Socket, Crimp, Removable (Class A & B)
0	Threaded Coupling, UN Thread	6-6	6 Size 23 Contacts	A	Pin, PC-Tail, .062 Extension (Class C)
3- Class		6-7	7 Size 23 Contacts	B	Pin, PC-Tail, .109 Extension (Class C)
A	Environmental with Banding/Overmolding Attachment	7-10	10 Size 23 Contacts	G	Pin, PC-Tail, .125 Extension (Class C)
B	Environmental with Threaded Accessory Attachment	8-13	13 Size 23 Contacts	C	Socket, PC Tail, .062 Extension (Class C)
C	Back-Potted Plug/Receptacle-PC/Flex/Solder	9-19	19 Size 23 Contacts	D	Socket, PC Tail, .109 Extension (Class C)
4- Shell Style		10-26	26 Size 23 Contacts	H	Socket, PC Tail, .125 Extension (Class C)
6	Straight Plug	12-37	37 Size 23 Contacts	E	Pin, Solder Cup (Class A through C)
7	Jam Nut Receptacle-Rear Panel Mount	6-23	3 Size 20HD Contacts	F	Socket, Solder Cup (Class A through C)
5- Plating		7-25	5 Size 20HD Contacts	8- Clocking	
C	Aluminum / Anodized, Black	8-28	8 Size 20HD Contacts	Position	K1°
F	Aluminum/Electroless Nickel	9-210	10 Size 20HD Contacts	N (Normal)	150°
K	Stainless Steel / Passivated	12-220	20 Size 20HD Contacts	X	140°
N	Stainless Steel/Electroless Nickel	6-1	1 Size 16 Contact	Y	130°
T	Aluminum/Teflon Nickel	8-2	2 Size 16 Contacts	Z	120°
W	Aluminum/Olive Drab Cadmium over Electroless Nickel	9-4	4 Size 16 Contacts	9- Modification Codes	
Y	Stainless Steel / Electroless Nickel, Black	10-5	5 Size 16 Contacts	-F0	Less Contacts ("F0" not stamped on connector, but must be included on the P.O.)
Z	Aluminum/Zinc Nickel, Black	12-7	7 Size 16 Contacts	-518	Class "C" PC style black potted connectors w/water immersion testing
		7-1	1 Size 12 Contact		
		10-2	2 Size 12 Contacts		
		12-2	2 Size 12 Contacts		
		12-3	3 Size 12 Contacts		

Clocking



For all shell sizes and clockings, the master keyway remains stationary at top center, with minor keys rotating to achieve alternate clocking positions.

Specifications

Enviromental Specifications				
Humidity	Operational from 0-100% humidity		Salt Atmosphere	Connector shall operate in and when stored in a salt fog atmosphere without protective covers for 48 hrs
Salt Spray	Connector shall have no exposure of base metal when subjected to salt spray			Rain & Water
	C - Aluminum/anodized, black >1000 hours		Sand & Dust	The connector shall not suffer greater than cosmetic deterioration due to blowing sand and dust
	F - Aluminum/electroless nickel 48 hours			
	K - Stainless steel/passivated >1000 hours		Water Immersion, Mated Condition	1 meter for 1 hour
	N - Stainless steel/electroless nickel 500 hours			
	T - Aluminum/teflon nickel 500 hours		Fluid Immersion	Unmated connectors immersed in various fuels and oils shall have no damage detrimental to the operation of the connector components
	W - Aluminum/olive drab cadmium 500 hours			
	Y - Stainless steel/electroless nickel, black 500 hours		Fungus	Fungus Inert
	Z - Aluminum/zinc nickel, black 500 hours			
	ZN - Aluminum/zinc nickel, green (not RoHS) 500 hours			
	MB - Marine Bronze >1000 hours			

Specifications

Specifications						
Contact Type	Rear Crimp, Solder Cup, PCB Mount		Max Voltage Drop	Less than 85 mV with contacts in the mated position and an applied load at 16VDC		
Contact Spacing	Size 12: 0.230” Spacing Size 16: 0.170” Spacing	Size 20HD: 0.106” Spacing Size 23: 0.076” Spacing	Shell-to-shell conductivity, after conditioning (48 hours salt spray)	<0.02 Ohms Note: measured on nickel plated connectors		
Wire Accommodation	Size 12: #12 - #14 AWG Size 16: #16 - #20 AWG	Size 20HD: #20 - #24 AWG Size 23: #22 - #28 AWG	Coupling	UNC Threaded Coupling		
Contact Rating	Size 12: 23 Amps Size 16: 13 Amps	Size 20HD: 7.5 Amps Size 23: 5 Amps	Recommended Torque Values	Shell Size	Coupling Torque	
DWV Voltage (VAC) @ Sea Level	Size 12: 1800 VAC Size 16: 1800 VAC	Size 20HD: 1000 VAC Size 23: 5750 VAC			In-lbs	
Insulation Resistance	>5000 Megohms @ 500 VDC			Min.	Max.	
Operating Temperature	-65°C to +175°C			5	16	20
Contact Resistance	8 mΩ Maximum			6	18	22
Shock/Vibration	37 g’s Random Vibration; 300 g’s Shock			7	20	24
Altitude	Operational at sea level to 32,000 ft			8	20	24
Receptacle Mounting	In-Line, flange, jam nut			9	20	24
Durability	2000 mating cycles		10	20	24	
Contact Retention (Minimum Force)	Size 12: 25 lbs / 111 N Size 16: 25 lbs / 111 N	Size 20HD: 15 lbs / 67 N Size 23: 6 lbs / 27 N	Materials	Shell, barrel, jam nut, coupling nut - Aluminum or stainless steel		
EMI Shielding Effectiveness, low frequency (100 MHz - 1000 MHz)	Requirement			Insulators - Thermoplastic		
	Frequency	Min. dB Attenuation		Grommet, peripheral seal, interfacial seal - Fluorosilicone		
	100 MHz	75		Contacts - Copper Alloy with Gold over Nickel Plating		
	200 MHz	70				
	300 MHz	65				
	400 MHz	63				
	800 MHz	58				
1000 MHz	55					

MKJO Contact Arrangements

	Insert Arrangements	Contacts					
		#23	#20	#20HD	#16	#12	#8
Size #23 Contacts 5 Amp Max. Current #22-#28 AWG 750 VAC DWV	5-3	3					
	6-4	4					
	6-6	6					
	6-7	7					
	7-10	10					
	8-13	13					
	9-19	19					
	10-26	26					
	12-37	37					
Size #20HD Contacts 7.5 Amp Max. Current #20-#24 AWG 1000 VAC DWV	6-23			3			
	7-25			5			
	8-28			8			
	9-210			10			
	12-220			20			
Size #16 Contacts 13 Amp Max. Current #16-#20 AWG 1800 VAC DWV	6-1				1		
	8-2				2		
	9-4				4		
	10-5				5		
	12-7				7		
Size #12 Contacts 23 Amp Max. Current #12- #14 AWG 1800 VAC DWV	7-1					1	
	10-2					2	
	12-2					2	
	12-3					3	

	Insert Arrangements	Contacts					
		#23	#20	#20HD	#16	#12	#8
Combo* Arrangements Using Size #23 Contacts 5 Amp Max. Current #22 - #28 AWG 750 VAC DWV	10-200	12				1	
	10-201	4				2	
	12-200	6				2	
	12-201	10				2	
	9-200	4			2		
	10-202	8			2		
	8-200	4	2				
	9-201	8	2				
	12-202	20			2		
Combo* Arrangements Using Size #23 Contacts 5 Amp Max. Current #22 - #28 AWG 1300 VAC DWV	12-203	12			4		
	12-204	12				2	
	12-205	4				4	

MKJO Standard Contact Arrangements

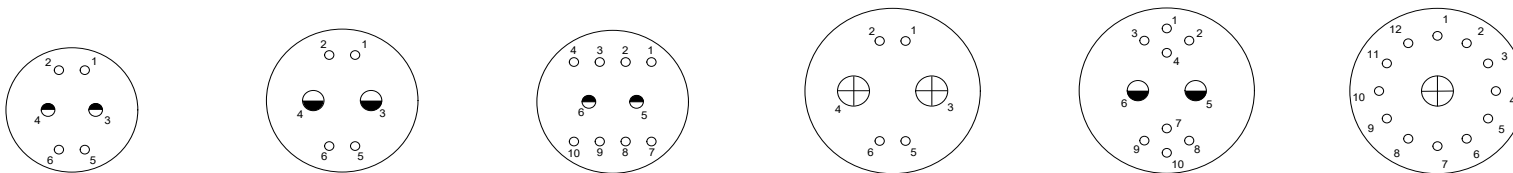


MKJO	5-3	6-1	6-23	6-4	6-6	6-7	7-1	7-25	7-10
Contact QTY	3	1	3	4	6	7	1	5	10
Contact Size	23	16	20HD	23	23	23	12	20HD	23
Voltage (VAC)	750	1800	1000	750	750	750	1800	1000	750
Current (Amps)	5	13	7.5	5	5	5	23	7.5	5

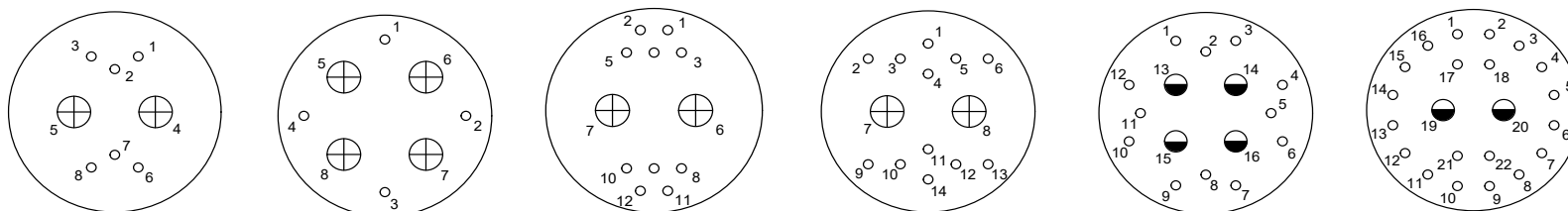
MKJO	8-2	8-28	8-13	9-4	9-210	9-19	10-2	10-5
Contact QTY	2	8	13	4	10	19	2	5
Contact Size	16	20HD	23	16	20HD	23	12	16
Voltage (VAC)	1800	1000	750	1800	1000	750	1800	1800
Current (Amps)	13	7.5	5	13	7.5	5	23	13

MKJO	10-26	12-2	12-3	12-7	12-220	12-37
Contact QTY	26	2	3	7	20	37
Contact Size	23	12	12	16	20HD	23
Voltage (VAC)	750	1800	1800	1800	1000	750
Current (Amps)	5	23	23	13	7.5	5

MKJO Combo Contact Arrangements



MKJO	8-200	9-200	9-201	10-201	10-202	10-200
Contact QTY	6	6	10	6	10	13
Contact Size	4 #23 / 2 #20HD	4 #23 / 2 #16	8 #23 / 2 #20HD	4 #23 / 2 #12	8 #23 / 2 #16	12 #23 / 1 #12
Voltage (VAC)	750 VAC DWV	750	750	750	750	750
Current (Amps)	5	5	5	5	5	5



MKJO	12-200	12-205	12-201	12-204	12-203	12-202
Contact QTY	8	8	12	14	16	22
Contact Size	6 #23 / 2 #12	4 #23 / 4 #12	10 #23 / 2 #12	12 #23 / 2 #12	12 #23 / 4 #16	20 #23 / 2 #16
Voltage (VAC)	750	1300	750	1300	1300	1300
Current (Amps)	5	5	5	5	5	5

For Combo PCB Hole Patterns, please consult the factory.

MKJ0 Straight Plug

Part Number Configurator

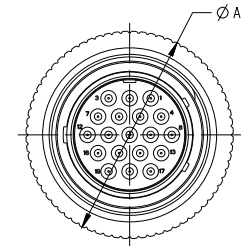
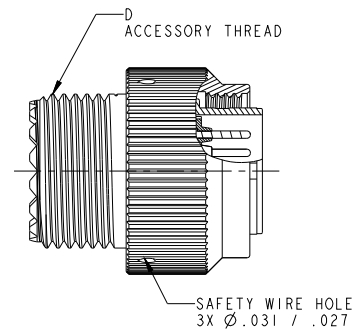
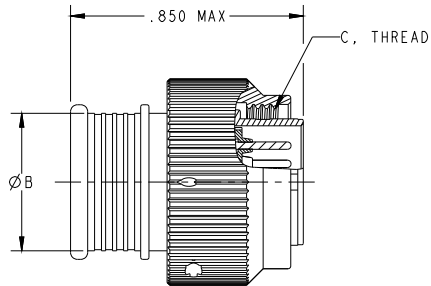
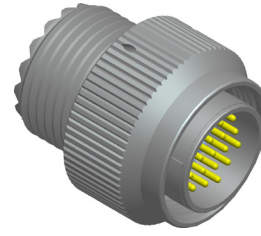
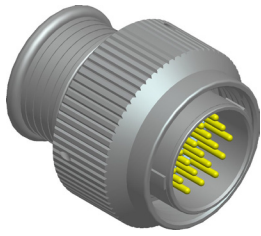
1- Series	2- Coupling	3- Class	4- Shell Style	5- Plating	6- Arrangement	7- Contact Style	8- Clocking	9- MOD Codes
MKJ	0	A	6	F	7-10	P	N	-F0

1- Product	
MKJ	MKJ Series
2- Coupling	
0	Threaded Coupling, UN Thread
3- Class	
A	Environmental with Banding/Overmolding Attachment
B	Environmental with Threaded Accessory Attachment
4- Shell Style	
6	Straight Plug
5- Plating	
C	Aluminum / Anodized, Black
F	Aluminum/Electroless Nickel
K	Stainless Steel / Passivated
N	Stainless Steel/Electroless Nickel
T	Aluminum/Teflon Nickel
W	Aluminum/Olive Drab Cadmium over Electroless Nickel
Y	Stainless Steel / Electroless Nickel, Black
Z	Aluminum/Zinc Nickel, Black

6- Standard Arrangements (For Combo, please reference page 10)	
5-3	3 Size 23 Contacts
6-4	4 Size 23 Contacts
6-6	6 Size 23 Contacts
6-7	7 Size 23 Contacts
7-10	10 Size 23 Contacts
8-13	13 Size 23 Contacts
9-19	19 Size 23 Contacts
10-26	26 Size 23 Contacts
12-37	37 Size 23 Contacts
6-23	3 Size 20HD Contacts
7-25	5 Size 20HD Contacts
8-28	8 Size 20HD Contacts
9-210	10 Size 20HD Contacts
12-220	20 Size 20HD Contacts
6-1	1 Size 16 Contact
8-2	2 Size 16 Contacts
9-4	4 Size 16 Contacts
10-5	5 Size 16 Contacts
12-7	7 Size 16 Contacts
7-1	1 Size 12 Contact
10-2	2 Size 12 Contacts
12-2	2 Size 12 Contacts
12-3	3 Size 12 Contacts

7- Contact Style	
P	Pin, Crimp, Removable
S	Socket, Crimp, Removable
E	Pin, Solder Cup
F	Socket, Solder Cup
8- Clocking	
Position	K1°
N (Normal)	150°
X	140°
Y	130°
Z	120°
9- Modification Codes	
-F0	Less Contacts ("F0" not stamped on connector, but must be included on the P.O.)

MKJ0 Straight Plug - Banded or Accessory Thread



MKJ0 Straight Plug Banding/Overmolding Attachment

MKJ0 Straight Plug Threaded Accessory Attachment

MKJ0 Straight Plug Dimensions				
SHELL SIZE	ØA	ØB	C, THREAD UN-2B	D, ACCY THREAD UNEF-2A
5	0.430	0.245	.3125-28	.2500-32
6	0.500	0.290	.3750-28	.3125-32
7	0.620	0.390	.4375-28 UNEF-2B	.4375-28
8	0.680	0.445	.5000-32	.5000-28
9	0.750	0.500	.5625-32	.5625-24
10	0.810	0.562	.6250-32	.6250-24
12	0.880	0.650	.7500-28	.6875-24

MKJO Jam Nut Receptacle-Rear Panel Mount

Part Number Configurator

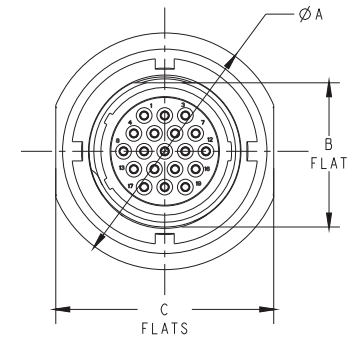
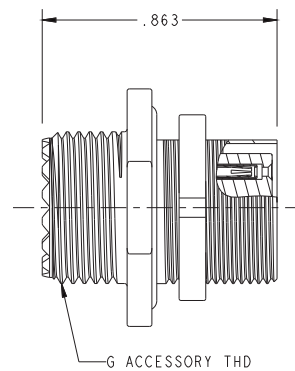
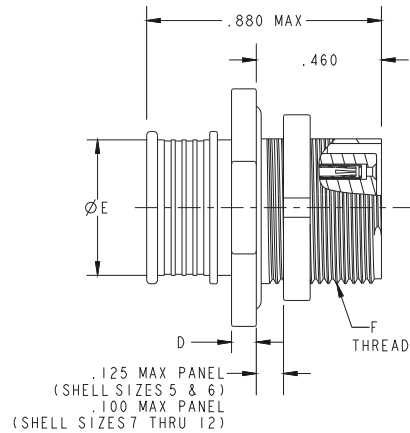
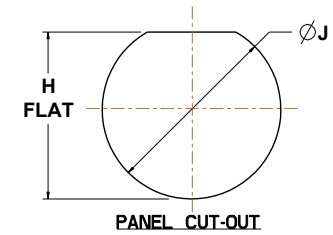
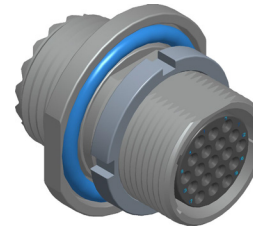
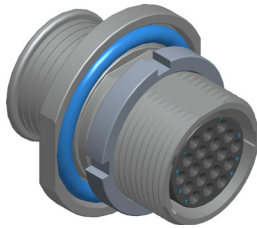
1- Series	2- Coupling	3- Class	4- Shell Style	5- Plating	6- Arrangement	7- Contact Style	8- Clocking	9- MOD Codes
MKJ	0	A	7	F	7-10	P	N	-F0

1- Product	
MKJ	MKJ Series
2- Coupling	
0	Threaded Coupling, UN Thread
3- Class	
A	Environmental with Banding/Overmolding Attachment
B	Environmental with Threaded Accessory Attachment
4- Shell Style	
7	Jam Nut Receptacle-Rear Panel Mount
5- Plating	
C	Aluminum / Anodized, Black
F	Aluminum/Electroless Nickel
K	Stainless Steel / Passivated
N	Stainless Steel/Electroless Nickel
T	Aluminum/Teflon Nickel
W	Aluminum/Olive Drab Cadmium over Electroless Nickel
Y	Stainless Steel / Electroless Nickel, Black
Z	Aluminum/Zinc Nickel, Black

6- Standard Arrangements (For Combo, please reference page 10)	
5-3	3 Size 23 Contacts
6-4	4 Size 23 Contacts
6-6	6 Size 23 Contacts
6-7	7 Size 23 Contacts
7-10	10 Size 23 Contacts
8-13	13 Size 23 Contacts
9-19	19 Size 23 Contacts
10-26	26 Size 23 Contacts
12-37	37 Size 23 Contacts
6-23	3 Size 20HD Contacts
7-25	5 Size 20HD Contacts
8-28	8 Size 20HD Contacts
9-210	10 Size 20HD Contacts
12-220	20 Size 20HD Contacts
6-1	1 Size 16 Contact
8-2	2 Size 16 Contacts
9-4	4 Size 16 Contacts
10-5	5 Size 16 Contacts
12-7	7 Size 16 Contacts
7-1	1 Size 12 Contact
10-2	2 Size 12 Contacts
12-2	2 Size 12 Contacts
12-3	3 Size 12 Contacts

7- Contact Style	
P	Pin, Crimp, Removable
S	Socket, Crimp, Removable
E	Pin, Solder Cup
F	Socket, Solder Cup
8- Clocking	
Position	K1°
N (Normal)	150°
X	140°
Y	130°
Z	120°
9- Modification Codes	
-F0	Less Contacts ("F0" not stamped on connector, but must be included on the P.O.)

MKJ0 Jam Nut Receptacle - Rear Panel Mount



MKJ0 Jam Nut Receptacle - Rear Panel Mount
with Banding/Overmolding Attachment

MKJ0 Jam Nut Receptacle - Rear Panel Mount
with Threaded Accessory Attachment

MKJ0 Jam Nut Receptacle - Rear Panel Mount Dimensions									
SHELL SIZE	ØA	B, FLAT	C, FLATS	D	ØE	F, THREAD UN-2A	G, ACCY THD UNEF-2A	H FLAT ±.002	ØJ
5	0.541	0.285	0.500	0.051	0.230	.3125-28	.2500-32	.293	.322
6	0.610	0.356	0.562	0.051	0.290	.3750-28	.3125-32	.363	.386
7	0.670	0.420	0.635	0.093	0.390	.4375-28 UNEF-2A	.4375-28	.426	.449
8	0.775	0.473	0.735	0.093	0.445	.5000-32	.5000-28	.481	.510
9	0.875	0.534	0.806	0.093	0.500	.5625-32	.5625-24	.540	.574
10	0.980	0.604	0.940	0.093	0.565	.6250-32	.6250-24	.612	.635
12	1.062	0.714	0.986	0.093	0.650	.7500-28	.6875-24	.722	.760

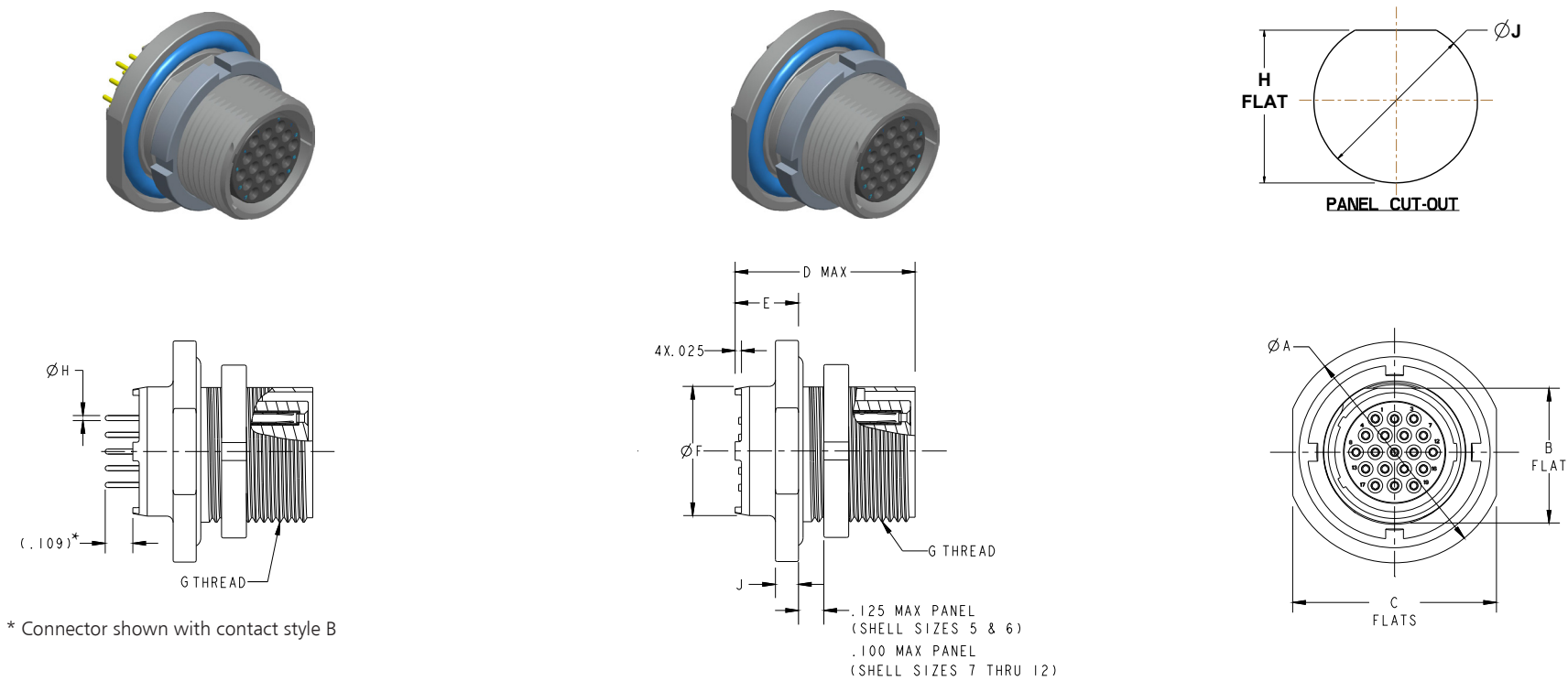
MKJ0 Jam Nut Receptacle-Rear Panel Mount PCB

Part Number Configurator

1- Series	2- Coupling	3- Class	4- Shell Style	5- Plating	6- Arrangement	7- Contact Style	8- Clocking	9- MOD Codes
MKJ	0	C	7	F	7-10	A	N	-F0

1- Product		6- Standard Arrangements (For Combo, please reference page 10)		7- Contact Style	
MKJ	MKJ Series	5-3	3 Size 23 Contacts	A	Pin, PC-Tail, .062 Extension
2- Coupling		6-4	4 Size 23 Contacts	B	Pin, PC-Tail, .109 Extension
0	Threaded Coupling, UN Thread	6-6	6 Size 23 Contacts	G	Pin, PC-Tail, .125 Extension
3- Class		6-7	7 Size 23 Contacts	C	Socket, PC Tail, .062 Extension
C	Back-Potted Plug/Receptacle-PC/Flex/Solder	7-10	10 Size 23 Contacts	D	Socket, PC Tail, .109 Extension
4- Shell Style		8-13	13 Size 23 Contacts	H	Socket, PC Tail, .125 Extension
7	Jam Nut Receptacle-Rear Panel Mount PCB	9-19	19 Size 23 Contacts	E	Pin, Solder Cup
5- Plating		10-26	26 Size 23 Contacts	F	Socket, Solder Cup
C	Aluminum / Anodized, Black	12-37	37 Size 23 Contacts	8- Clocking	
F	Aluminum/Electroless Nickel	6-23	3 Size 20HD Contacts	Position	K1°
K	Stainless Steel / Passivated	7-25	5 Size 20HD Contacts	N (Normal)	150°
N	Stainless Steel/Electroless Nickel	8-28	8 Size 20HD Contacts	X	140°
T	Aluminum/Teflon Nickel	9-210	10 Size 20HD Contacts	Y	130°
W	Aluminum/Olive Drab Cadmium over Electroless Nickel	12-220	20 Size 20HD Contacts	Z	120°
Y	Stainless Steel / Electroless Nickel, Black	6-1	1 Size 16 Contact	9- Modification Codes	
Z	Aluminum/Zinc Nickel, Black	8-2	2 Size 16 Contacts	-F0	Less Contacts ("F0" not stamped on connector, but must be included on the P.O.)
		9-4	4 Size 16 Contacts	-518	Class "C" PC style black potted connectors w/water immersion testing
		10-5	5 Size 16 Contacts		
		12-7	7 Size 16 Contacts		
		7-1	1 Size 12 Contact		
		10-2	2 Size 12 Contacts		
		12-2	2 Size 12 Contacts		
		12-3	3 Size 12 Contacts		

MKJ0 Jam Nut Receptacle - Rear Panel Mount PCB



* Connector shown with contact style B

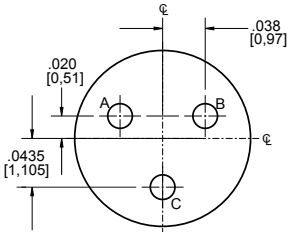
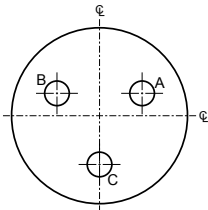
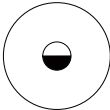
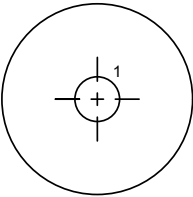
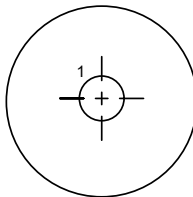
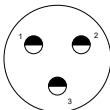
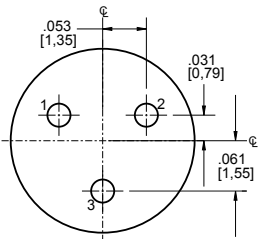
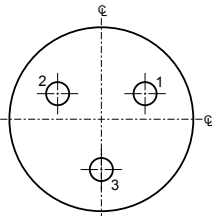
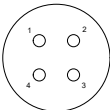
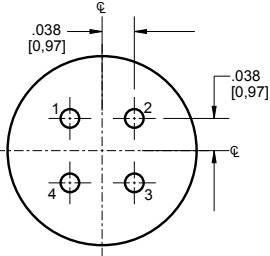
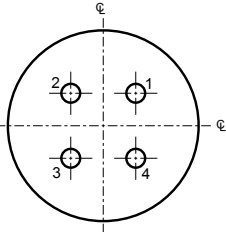
MKJ0 Jam Nut Receptacle - Rear Panel Mount PCB
PC Tail

MKJ0 Jam Nut Receptacle - Rear Panel Mount PCB
Solder Cup

MKJ0 Jam Nut Receptacle - Rear Panel Mount PCB Dimensions											
SHELL SIZE	ØA	B, FLAT	C, FLATS	D, MAX	E MAX	ØF	G, THREAD UN-2A	ØH	J	H FLAT ±.002	ØJ
5	0.541	0.285	0.500	0.730	0.260	0.265	.3125-28	SIZE 23 .018/.022 SIZE 20HD .024/.028 SIZE 16 .060/.064 SIZE 12 .092/.096	0.051	.293	.322
6	0.610	0.356	0.562	0.730	0.260	0.322	.3750-28		0.051	.363	.386
7	0.670	0.420	0.635	0.730	0.260	0.432	.4375-28 UNEF-2A		0.093	.426	.449
8	0.775	0.473	0.735	0.730	0.260	0.448	.5000-32		0.093	.481	.510
9	0.875	0.534	0.806	0.730	0.260	0.512	.5625-32		0.093	.540	.574
10	0.980	0.604	0.940	0.730	0.260	0.575	.6250-32		0.093	.612	.635
12	1.062	0.714	0.986	0.730	0.260	0.677	.7500-28		0.093	.722	.760

MKJO PCB Hole Patterns - Standard Arrangements

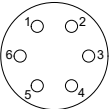
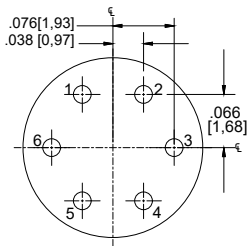
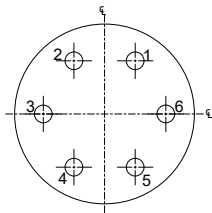
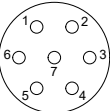
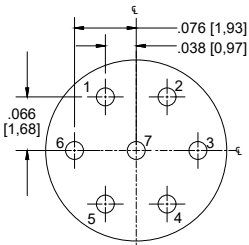
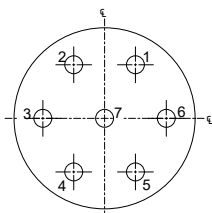
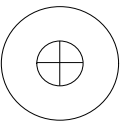
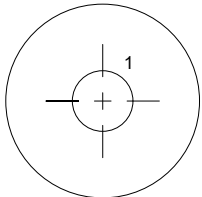
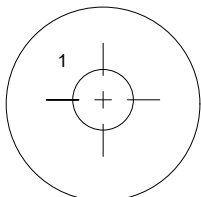
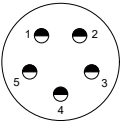
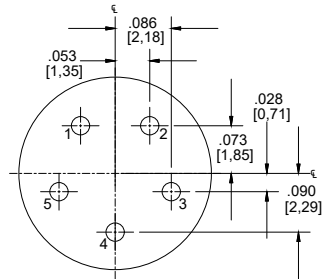
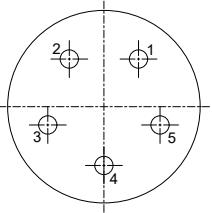
Face View of Pin Insulators (Socket layouts reversed)

Layout		Pin	Socket
			
Layout	5-3		
Contact QTY	3		
Contact Size	23		
			
Layout	6-1		
Contact QTY	1		
Contact Size	16		
			
Layout	6-23		
Contact QTY	3		
Contact Size	20HD		
			
Layout	6-4		
Contact QTY	4		
Contact Size	23		

Dimensions shown in inches and (mm). Specifications and dimensions subject to change.

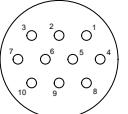
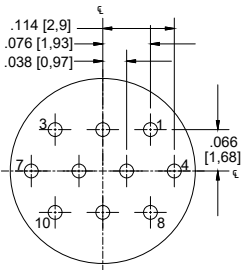
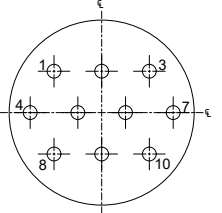
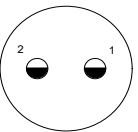
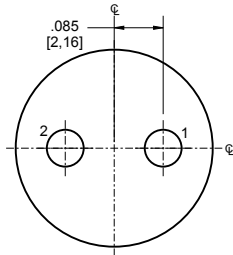
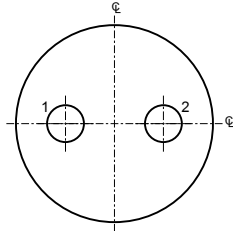
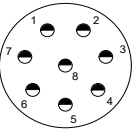
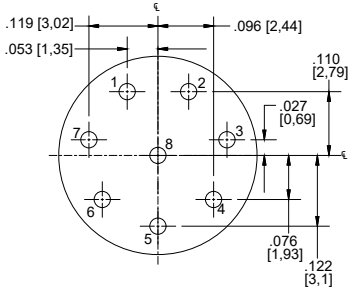
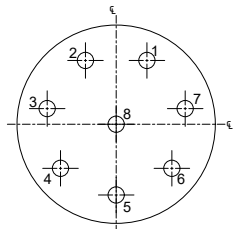
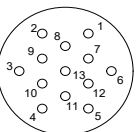
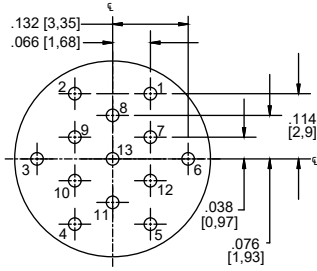
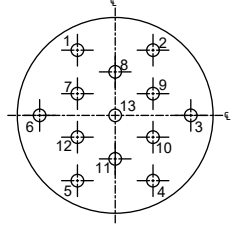
MKJO PCB Hole Patterns - Standard Arrangements

Face View of Pin Insulators (Socket layouts reversed)

Layout		Pin	Socket
			
Layout	6-6		
Contact QTY	6		
Contact Size	23		
			
Layout	6-7		
Contact QTY	7		
Contact Size	23		
			
Layout	7-1		
Contact QTY	1		
Contact Size	12		
			
Layout	7-25		
Contact QTY	5		
Contact Size	20HD		

MKJO PCB Hole Patterns - Standard Arrangements

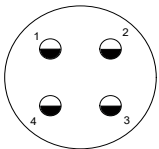
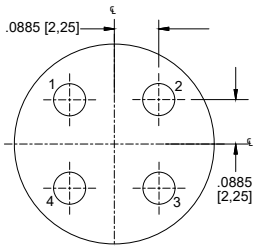
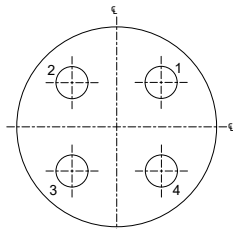
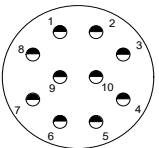
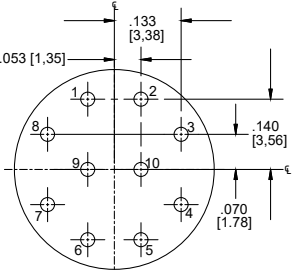
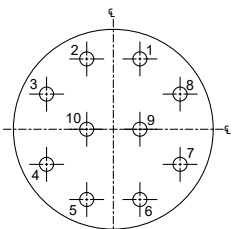
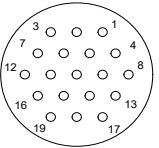
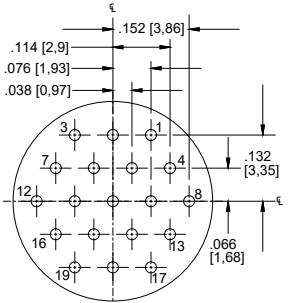
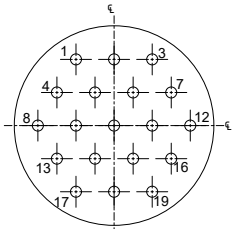
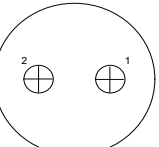
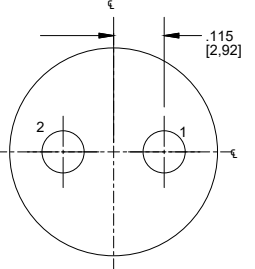
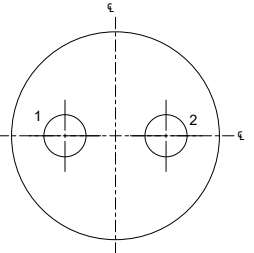
Face View of Pin Insulators (Socket layouts reversed)

Layout		Pin	Socket
			
Layout	7-10		
Contact QTY	10		
Contact Size	23		
			
Layout	8-2		
Contact QTY	2		
Contact Size	16		
			
Layout	8-28		
Contact QTY	8		
Contact Size	20HD		
			
Layout	8-13		
Contact QTY	13		
Contact Size	23		

Dimensions shown in inches and (mm). Specifications and dimensions subject to change.

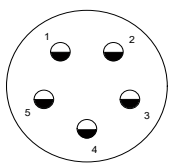
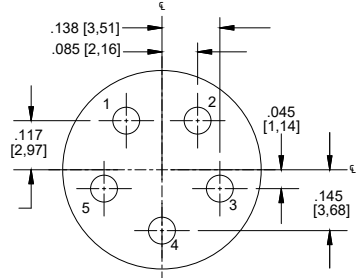
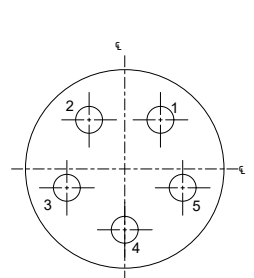
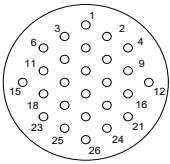
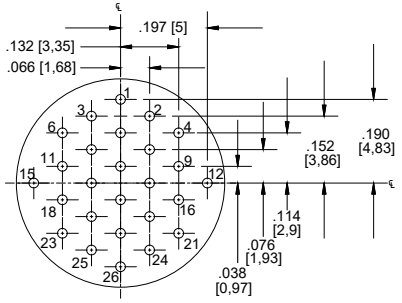
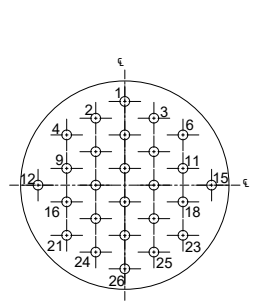
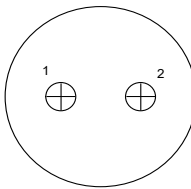
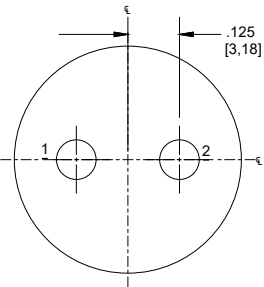
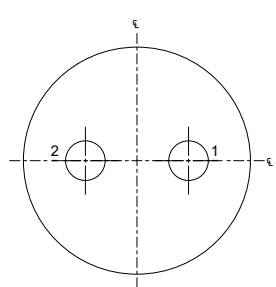
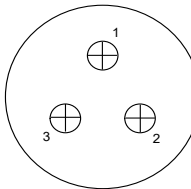
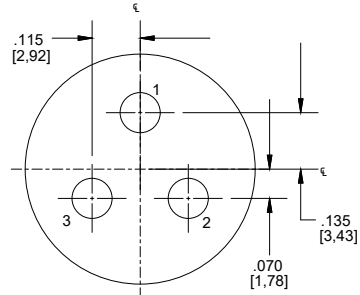
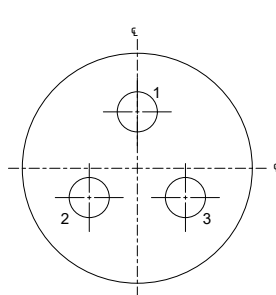
MKJO PCB Hole Patterns - Standard Arrangements

Face View of Pin Insulators (Socket layouts reversed)

Layout		Pin	Socket
			
Layout	9-4		
Contact QTY	4		
Contact Size	16		
			
Layout	9-210		
Contact QTY	10		
Contact Size	20HD		
			
Layout	9-19		
Contact QTY	19		
Contact Size	23		
			
Layout	10-2		
Contact QTY	2		
Contact Size	12		

MKJO PCB Hole Patterns - Standard Arrangements

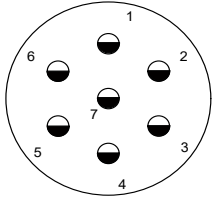
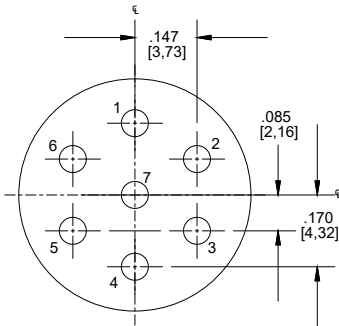
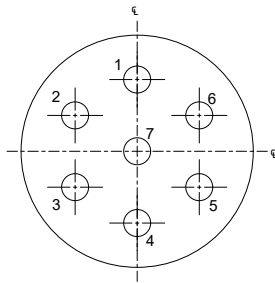
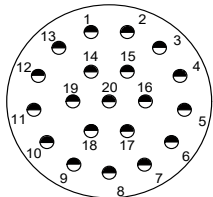
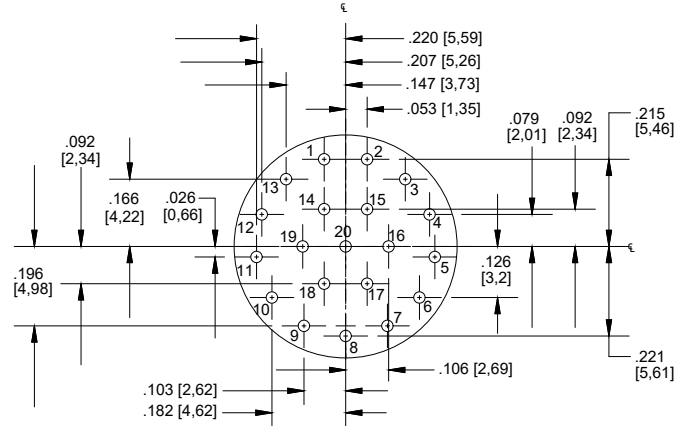
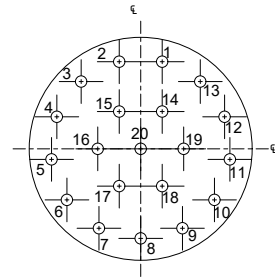
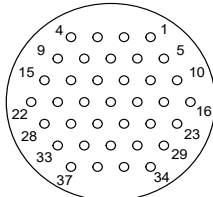
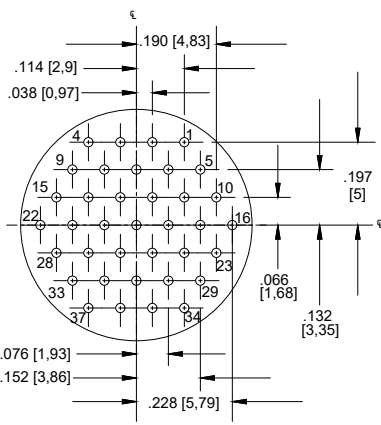
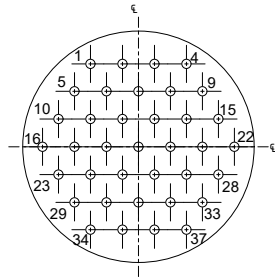
Face View of Pin Insulators (Socket layouts reversed)

Layout		Pin	Socket
			
Layout	10-5 & 12-5		
Contact QTY	5		
Contact Size	16		
			
Layout	10-26		
Contact QTY	26		
Contact Size	23		
			
Layout	12-2		
Contact QTY	2		
Contact Size	12		
			
Layout	12-3		
Contact QTY	3		
Contact Size	12		

Dimensions shown in inches and (mm). Specifications and dimensions subject to change.

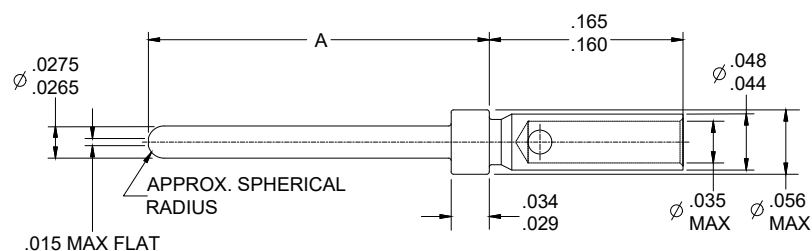
MKJO PCB Hole Patterns - Standard Arrangements

Face View of Pin Insulators (Socket layouts reversed)

Layout		Pin	Socket
			
Layout	12-7		
Contact QTY	7		
Contact Size	16		
			
Layout	12-220		
Contact QTY	20		
Contact Size	20HD		
			
Layout	12-37		
Contact QTY	37		
Contact Size	23		

MKJ Crimp Contact Drawings

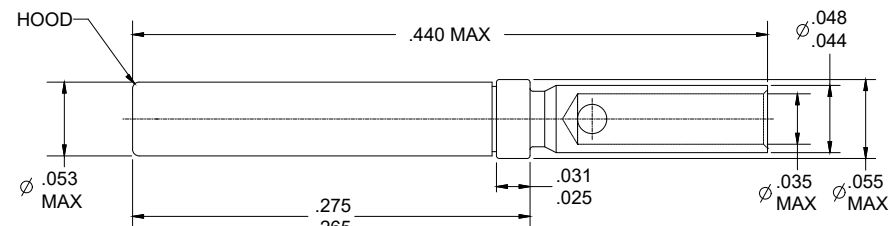
Size #23 Contacts - 5 Amp Max. / Current 750 VAC / #22-#28 AWG



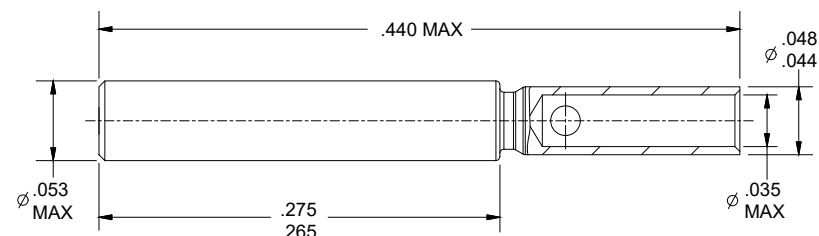
Part Number	A (Dim)	Contact Area Plating	Wire Size
030-9649-000	.283 - .289	50 Micro Inches Gold over Nickel	#22-28 AWG Wire
030-9649-011*	.323 - .327	50 Micro Inches Gold over Nickel	#22-28 AWG Wire
030-9649-100	.283 - .289	50 Micro Inches Gold over Nickel	#26-30 AWG Wire

*First-Mate-Last-Break crimp contact.

Pin - 030-9649-000/-011/-100

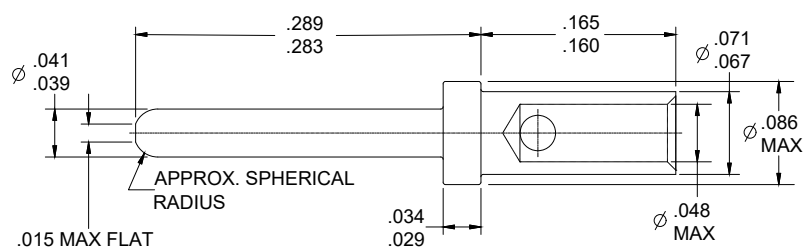


Socket - 031-9750-040 with Stainless Steel Hood

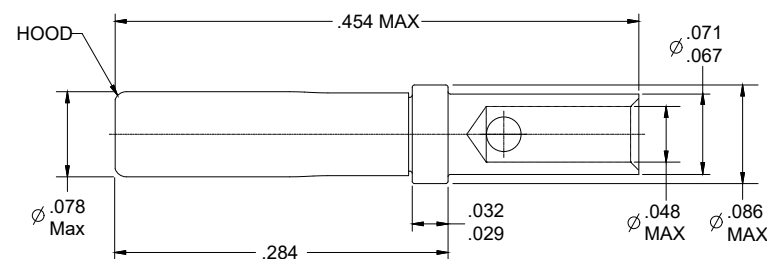


Socket - 031-9750-000 CONTACT Assembly, CRIMP, SIZE 23

Size #20HD Contacts- 7.5 Amp Max. / Current 1000 VAC / #20-#24 AWG



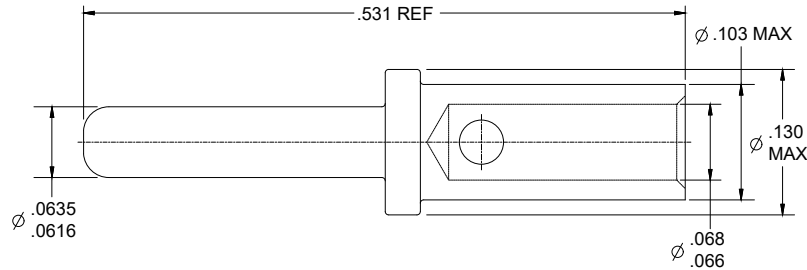
Pin - 030-9661-000



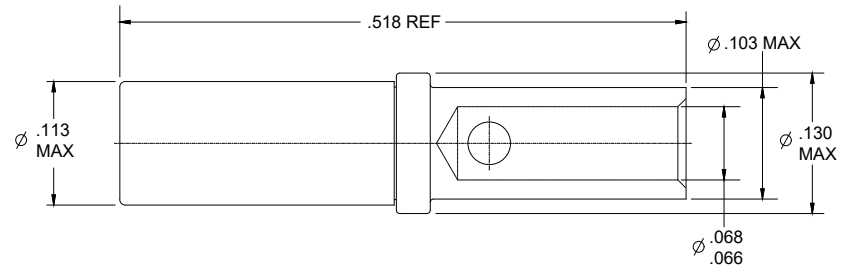
Socket - 031-9766-000

MKJ Crimp Contact Drawings

Size #16 Contacts - 13 Amp Max. / Current 1800 VAC / #16-#20 AWG

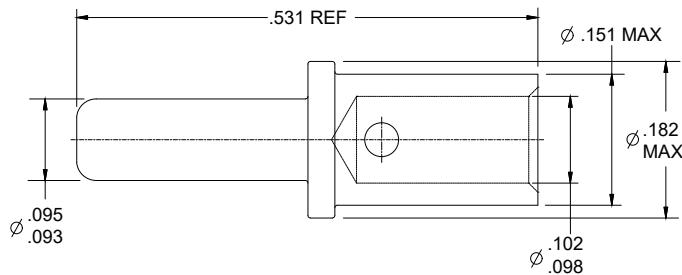


Pin - 980-0008-880

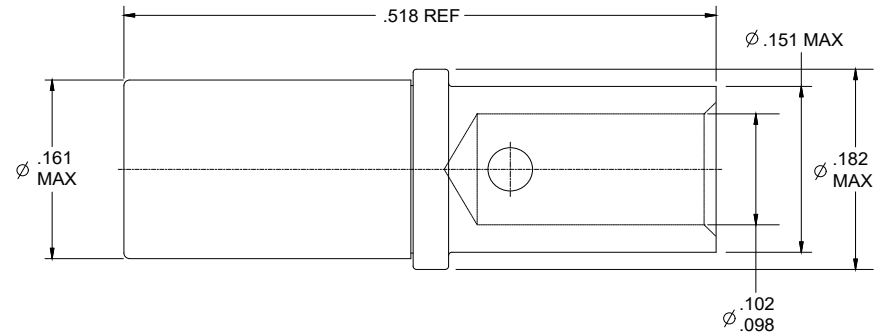


Socket - 980-0008-876

Size #12 Contacts- 23 Amp Max. / Current 1800 VAC / #12-14 AWG



Pin - 980-0008-881



Socket - 980-0008-877

Notes:

Non-removable solder cup and PC tail contacts are supplied with the connectors.
Crimp contacts are supplied with the connector, but not installed. Bulk crimp contacts can be ordered separately.

MKJ0 Series - Accessories

Crimp Tooling



Locator Standard - 995-0002-297



Contact Size	Crimp Tools		Locators	
	ITT Part Number	Military Part number	ITT Part Number	Military Part number
23	995-0002-293	-	995-0002-297	-
20HD	995-0002-293	-	995-0002-303	-
16	995-0001-585	M22520/1-01	-	M22520/1-04
12	995-0001-585	M22520/1-01	-	M22520/1-04

Additional Tooling



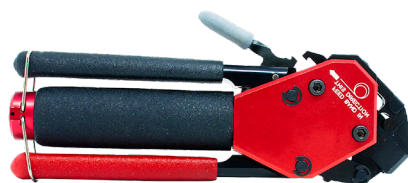
1/8" Bands - 995-0002-299

Tooling	
Tooling Type	Part Number
Insertion Tool	995-0002-295
Extraction Tool	995-0002-294
Hand Banding Tool	995-0002-298
Hand Banding Tool	995-0002-306
1/8" Bands (100 pk)	995-0002-299

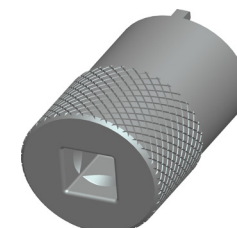
Spanner Nut Tool	
Shell Size	Part Number
5	317-2187-010
6	317-2187-006
7	317-2187-000
8	317-2187-011
9	317-2187-001
10	317-2187-002
12	317-2187-007



Hand Banding Tool - 995-0002-298



Hand Banding Tool - 995-0002-306



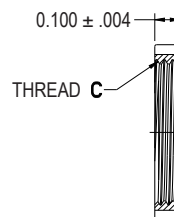
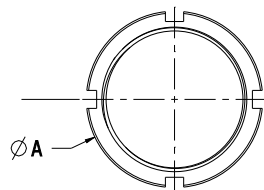
MKJ0 Series - Accessories

Disposable Dust Caps



Disposable Dust Caps			
Shell Size	Part Number	Shell Size	Part Number
5	980-9500-309	9	980-9500-360
6	980-9500-416	10	980-9500-322
7	980-9500-310	12	980-2003-011
8	980-9500-321		

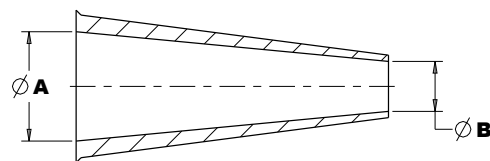
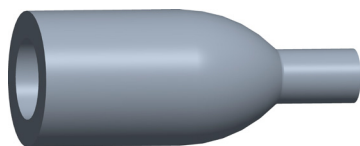
Jam Nut



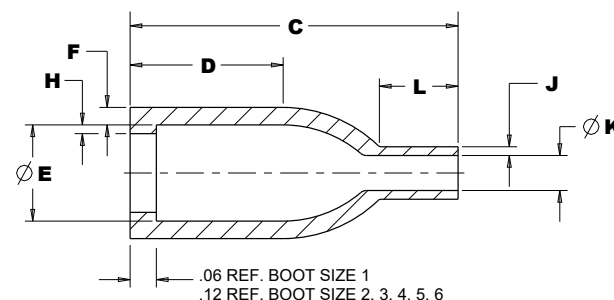
Jam Nut							
SIZE	Material and Finish					ØA ±.005	Thread C
	Aluminum/ Electroless Nickel	Aluminum/ O.D CAD over Nickel	Aluminum/ Teflon Nickel	Aluminum/ Black Zinc Nickel	Stainless Steel/ Electroless Nickel		
5	217-9650-000	217-9650-001	217-9650-002	217-9650-003	217-9650-020	.452	.3125-28 UN-2B
6	217-9651-000	217-9651-001	217-9651-002	217-9651-003	217-9651-020	.508	.3750-28 UN-2B
7	217-9652-000	217-9652-001	217-9652-002	217-9652-003	217-9652-020	.574	.4375-28 UNEF-2B
8	217-9667-000	217-9667-001	217-9667-002	217-9667-003	217-9667-020	.625	.5000-28 UNEF-2B
9	217-9653-000	217-9653-001	217-9653-002	217-9653-003	217-9653-020	.688	.5625-32 UN-2B
10	217-9655-000	217-9655-001	217-9655-002	217-9655-003	217-9655-020	.762	.6250-28 UN-2B
12	217-9654-000	217-9654-001	217-9654-002	217-9654-003	217-9654-020	.858	.7500-28 UN-2B

MKJ0 Series - Accessories

Heat Shrink Boot - Straight Angle



STRAIGHT BOOT
(AS PURCHASED, EXPANDED)



STRAIGHT BOOT (AS RECOVERED)

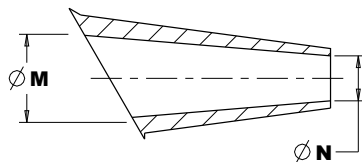
Heat Shrink Boot - Straight Angle Dimensions														
ITT BOOT SIZE	MIL SPEC	FITS SIZE MKJ0	MATERIAL	ITT PART NUMBER	Ø A MIN	Ø B MIN	C ±10%	D ±10%	Ø E MAX	F ±10%	H ±10%	J ±10%	Ø K MAX	L ±10%
2	-	6, 7	High performance, High-Temp epoxy	078-2000-001	0.65	0.65	1.00	.56	.31	.05	.04	.05	.15	.27
			Non-Halogen, Hot melt adhesive	078-2000-007	0.65	0.65	1.00	.56	.31	.05	.04	.05	.15	.27
			High performance, Hot melt adhesive	078-2000-013	0.65	0.65	1.00	.56	.31	.05	.04	.05	.15	.27
3	MS3109-11	9	High performance, High-Temp epoxy	078-2000-002	0.92	0.92	1.50	.90	.41	.06	.04	.06	.22	.40
			Non-Halogen, Hot melt adhesive	078-2000-008	0.92	0.92	1.50	.90	.41	.06	.04	.06	.22	.40
			High performance, Hot melt adhesive	078-2000-014	0.92	0.92	1.50	.90	.41	.06	.04	.06	.22	.40
4	MS3109-12	12	High performance, High-Temp epoxy	078-2000-003	1.22	1.22	2.17	.90	.56	.06	.04	.06	.26	.40
			Non-Halogen, Hot melt adhesive	078-2000-009	1.22	1.22	2.17	.90	.56	.06	.04	.06	.26	.40
			High performance, Hot melt adhesive	078-2000-015	1.22	1.22	2.17	.90	.56	.06	.04	.06	.26	.40

Notes:

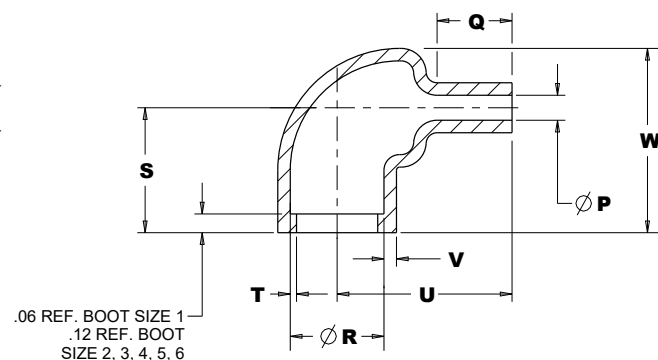
- Material: **High performance:** Fluid resistance flame retarded elastomer, color black. Temperature range: -75°C to 150°C.
Non-Halogen: Flexible zero-halogen limited fire hazard, color black. Temperature range: -55°C to 105°C.
- Minimum dimensions are as purchased, unrecovered.
- Maximum dimensions shown represent the dimension at the boots maximum shrink.
- Boot size applicable only to standard ITT MKJ banded connectors. Consult factory for other size applications.
- Boot has a pre-applied polyamide hot melt adhesive or 1 part epoxy.
 - A. Hot melt adhesive is halogen free. Operating range is -55°C to 120°C.
 - B. High-Temp epoxy has an operating temperature of -75°C to 200°C.

MKJO Series - Accessories

Heat Shrink Boot - Right Angle



RIGHT ANGLE BOOT
(AS PURCHASED, EXPANDED)



RIGHT ANGLE BOOT (AS RECOVERED)

Heat Shrink Boot - Right Angle Dimensions														
ITT BOOT SIZE	MIL SPEC	FITS SIZE MKJO	MATERIAL	ITT PART NUMBER	Ø M MIN	Ø N MIN	Ø P MAX	Q ±10%	Ø R MAX	S ±10%	T ±20%	U ±10%	V ±20%	W ±10%
2	-	6, 7	High performance, High-Temp epoxy	078-2100-001	0.65	0.65	.15	.16	.31	.60	.04	.68	.04	.79
			Non-Halogen, Hot melt adhesive	078-2100-007	0.65	0.65	.15	.16	.31	.60	.04	.68	.04	.79
			High performance, Hot melt adhesive	078-2100-013	0.65	0.65	.15	.16	.31	.60	.04	.68	.04	.79
3	MS3117-11	9	High performance, High-Temp epoxy	078-2100-002	0.92	0.92	.22	.23	.41	.60	.04	.80	.05	.90
			Non-Halogen, Hot melt adhesive	078-2100-008	0.92	0.92	.22	.23	.41	.60	.04	.80	.05	.90
			High performance, Hot melt adhesive	078-2100-014	0.92	0.92	.22	.23	.41	.60	.04	.80	.05	.90
4	MS3117-12	12	High performance, High-Temp epoxy	078-2100-003	1.12	1.12	.25	.28	.56	.84	.04	1.17	.06	1.12
			Non-Halogen, Hot melt adhesive	078-2100-009	1.12	1.12	.25	.28	.56	.84	.04	1.17	.06	1.12
			High performance, Hot melt adhesive	078-2100-015	1.12	1.12	.25	.28	.56	.84	.04	1.17	.06	1.12

Notes:

- Material: High performance: Fluid resistance flame retarded elastomer, color black. Temperature range: -75°C to 150°C.
- Non-Halogen: Flexible zero-halogen limited fire hazard, color black. Temperature range: -55°C to 105°C.
- Minimum dimensions are as purchased, unrecovered.
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- Boot size applicable only to standard ITT MKJ banded connectors. Consult factory for other size applications.
- Boot has a pre-applied polyamide hot melt adhesive or 1 part epoxy.
 - A. Hot melt adhesive is halogen free. Operating range is -55°C to 120°C.
 - B. High-Temp epoxy has an operating temperature of -75°C to 200°C.

MKJ Series Overview

Up to 71% weight and 52% size reduction in an industry-leading quick disconnect*

ITT Cannon continues its tradition of innovation with the MKJ line of miniature circular connectors. Bringing together a unique combination of design, functionality and flexibility, Cannon's MKJ Series offers proven, reliable and cost-effective interconnect solutions that enable critical communication, navigation and high speed data transmission—at half the size and weight of traditional D38999. Choose from UNC thread, double-start, triple-start, bayonet, breakaway and clip-lock latching coupling methods in a cost-efficient, lightweight and highly engineered design.



MKJ0 UNC Thread



MKJ3 Bayonet



MKJ5 Triple Start



MKJ1 Double Start



MKJ4 Breakaway



MKJ Clip Lock



MKJ Warrior

Key Features

- Versatile and proven for use in military, industrial and medical applications where safety and reliability are critical
- A number of connectors in the MKJ Series offer up to 2,000 mating cycles, making them the perfect solution for ruggedized computers and hand-held communications equipment
- Multiple coupling mechanisms enable connectivity for navigation and telemetry applications
- Plugs and receptacles are environmentally sealed for use in the harshest environments
- Teflon nickel, black zinc nickel and olive drab cadmium plating maintain robust reliability for 500 hours of salt spray
- RoHS Compliant plating and part numbers available
- Qualified to GOSSRA and design per Nett Warrior

Cables to Outfit Your MKJ Connector

Value-Added Cabling Solutions from ITT Cannon

Let ITT Cannon complete your solution with our custom cable products. A complement to the reduction in size of the connectors is the reduction in weight and thickness in cabling. Choose from several available options to help customize your application. Improving on our high reliability connectors, we offer over molds that are suitable for military requirements in harsh environments.



Note: Polyurethane jacketed round cables and silicon jacket high-flex flat cables with overmolds.

Braiding

- EMI shielded metal to light weight, textile braiding for abrasion protection

Overmolding

- Injection molding with polyurethane, Santoprene, and polyimide
- Transfer molding with Cannon's Super Jacketing System (SJS Series), Viton, Neoprene, EPDM, and alternative molding compounds
- Low pressure and prototype molding including M24041, poly urethane, Polyimide, and custom compounds

Shrink Boots

- Customized solution for all connector-to-cable transition type including straight, 90 and 45 degree.

Backshells

- Integration of commercial and MIL-Spec backshell and molding adapters

Cable Jacket

- Blown-on jacketing for multi leg cables using SJS jacket, Viton Neoprene, EPDM, and various other tubing jackets
- RONDENT proof extruded jackets using SJS jacket, poly urethane, Santoprene and Neoprene.
- Textile braids and heat shrink jackets

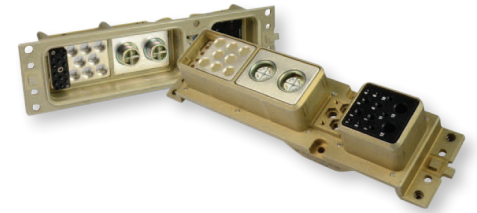
Integrated Assembly

- Integrated connector and cabling into box system
- Ribbon cable assembly
- Cable/Wire harnesses in boxes or as an LRU
- Machined & integrated high volume Die Cast housing

Amazing things happen when great things connect

ITT Cannon is a leading global manufacturer of connector products serving international customers in the aerospace and defense, medical, energy, transportation and industrial end markets. Whether delivering critical specs to aircraft pilots, streaming data through communications satellites or enabling ultrasound technology that gives an expectant mother the first glimpse of her unborn child, Cannon connects the world's most important information with the people who need it.

With over 100 years of interconnect excellence and seven decades of global presence from the Defense and Medical Industry, we are a committed partner among today's critical equipment manufacturers.



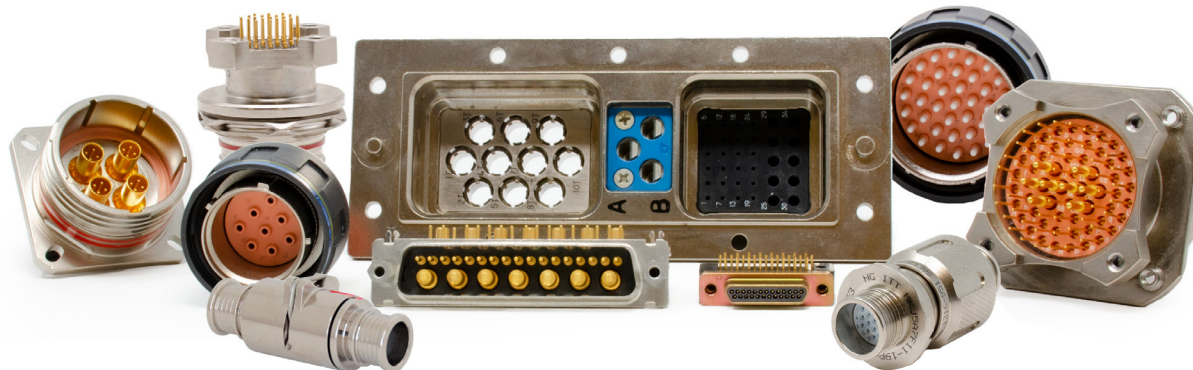
A Century of Connections

In 2015, Cannon marked its 100th Anniversary of Innovation. Cannon products were used in the first "talking" movies and helped transmit the first messages back to earth when we landed on the moon. Today we proudly continue our legacy of innovating to connect the world and inspire the successes of the next century – because amazing things happen when great things connect.

Visit ittcannon.com to learn more.

About ITT

ITT is a diversified leading manufacturer of highly engineered critical components and customized technology solutions for the transportation, industrial, and oil and gas markets. Building on its heritage of innovation, ITT partners with its customers to deliver enduring solutions to the key industries that underpin our modern way of life.



ITT Cannon Defense Solutions

Meet Some of Our Most Innovative Connectors



Cu Light Series

Size #8 TOSA-ROSA for 10 Gbps
Copper-to-Fiber conversion in
military circular connectors



C5 Warrior Series

Ultra-High-Density, 10 Gbps Solution,
4 times smaller than D38999
connectors for USB-C, DisplayPort,
HDMI & Gb Ethernet protocols



MKJ Display Port Series

Vibration resistant Display Port with
5.4 Gbps data lanes, optimized imped-
ance-controlled contact system, and
low-smoke zero-halogen cabling



KJ Series (38999-style)

- High contact density pin count
- Moisture resistant
- Quick connect & disconnect
- Fiber Optic, Hermetic, Filter



CA Bayonet Series

- 1 to 140 contact arrangements
- Shell size #10SL to #36
- Reverse bayonet up to IP69K
- CAB/VG95234 & CGE/VG96929



Nemesis Series

- 20+ meter sealing
- Dual coupling or Breakaway
- Power, signal & data
- Blind mating design



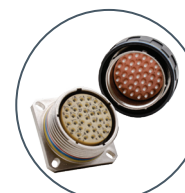
KP Series

- 10 shell size, with up to 40
layouts from 2 to 61 contacts
- Sealing up to IP67
- VG95238 & MIL-DTL-26482



CA Threaded / 5015 Series

- 5 polarizations
- Individual wire sealing grommet
- RoHS compliant options
- MIL-DTL-5015 (SAE-AS50151)



Fiber Optic Series

- Termini, savers and cable as-
semblies integrations in M29504,
D38999, M28876, Jewel, NGCON,
DSUB, Micro, PHD and ARINC



D-Sub Series

- Mixed Signal / Power, M24308,
Crimp, Solder, PC Tail, Double
Density, Filter/ Hermetic
- Up to 104 contact



HDx Series

- High-Density, Small Form Factor
- High speed data - USB® 3.1 Gen1 up
to 5Gbit/s, Ethernet up to 10Gbit/s,
HDMI® up to 8.16 Gbit/s



Micro Series

- High Temperature (+230°C)
- Low profile configuration
- Mixed power, coax and signal
layouts & M83513



MKJ Series

- High-density, miniature footprint
- UNC thread, double start, triple
start, bayonet, breakaway and clip
lock latching

Product Safety Information

This note must be read in conjunction with the Product Data Sheet / Catalog. Failure to observe the advice in this information sheet and the operating conditions specified in the Product Data Sheet / Catalog could result in hazardous situations.

1. MATERIAL CONTENT & PHYSICAL FORM

Electrical connectors do not usually contain hazardous materials. They contain conducting and non-conducting materials and can be divided into two groups:

- a) Printed circuit types and low cost audio types which employ all plastic insulators and casings.
- b) Rugged, Fire Barrier and High Reliability types with metal casings and either natural rubber, synthetic rubber, plastic or glass insulating materials. Contact materials vary with type of connector and also application and are usually manufactured from either: Copper, copper alloys, nickel, alumel, chromel or steel. In special applications, other alloys may be specified.

2. FIRE CHARACTERISTICS AND ELECTRIC SHOCK HAZARD

There is no fire hazard when the connector is correctly wired and used within the specified parameters.

Incorrect wiring or assembly of the connector or careless use of metal tools or conductive fluids, or transit damage to any of the component parts may cause electric shock or burns. Live circuits must not be broken by separating mated connectors as this may cause arcing, ionization and burning. Heat dissipation is greater at maximum resistance in a circuit. Hot spots may occur when resistance is raised locally by damage, e.g. cracked or deformed contacts, broken strands of wire. Local over- heating may also result from the use of the incorrect application tools or from poor quality soldering or slack screw terminals. Overheating may occur if the ratings in the product Data Sheet/Catalog are exceeded and can cause breakdown of insulation and hence electric shock. If heating is allowed to continue it intensifies by further increasing the local resistance through loss of temper of spring contacts, formation of oxide film on contacts and wires and leakage currents through carbonization of insulation and tracking paths. Fire can then result in the presence of combustible materials and this may release noxious fumes. Overheating may not be visually apparent. Burns may result from touching overheated components.

3. HANDLING

Care must be taken to avoid damage to any component parts of electrical connectors during installation and use. Although there are normally no sharp edges, care must be taken when handling certain components to avoid injury to fingers. Electrical connectors may be damaged in transit to the customers, and damage may result in creation of hazards. Products should therefore be examined prior to installation/use and rejected if found to be damaged.

4. DISPOSAL

Incineration of certain materials may release noxious or even toxic fumes.

5. APPLICATION

Connectors with exposed contacts should not be selected for use on the current supply side of an electrical circuit, because an electric shock could result from touching exposed contacts on an unmated connector. Voltages in excess of 30 V ac or 42.5 V dc are potentially hazardous and care should be taken to ensure that such voltages cannot be transmitted in any way to exposed metal parts of the connector body. The connector and wiring should be checked, before making live, to have no damage to metal parts or insulators, no solder blobs, loose strands, conducting lubricants, swarf, or any other undesired conducting particles. Circuit resistance and continuity check should be made to make certain that there are no high resistance joints or spurious conducting paths. Always use the correct application tools as specified in the Data Sheet/Catalog. Do not permit untrained personnel to wire, assemble or tamper with connectors. For operation voltage please see appropriate national regulations.

6. IMPORTANT GENERAL INFORMATION

6.1 Air and creepage paths/operating voltage. The admissible operating voltages depend on the individual applications and the valid national and other applicable safety regulations. For this reason the air and creepage path data are only reference values. Observe reduction of air and creepage paths due to PC board and/or harnessing.

6.2 Temperature. All information given are temperature limits. The operation temperature depends on the individual application.

6.3 Other important information. Cannon continuously endeavors to improve their products. Therefore, Cannon products may deviate from the description, technical data and shape as shown in this catalog and data sheets.

7. MISCELLANEOUS

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