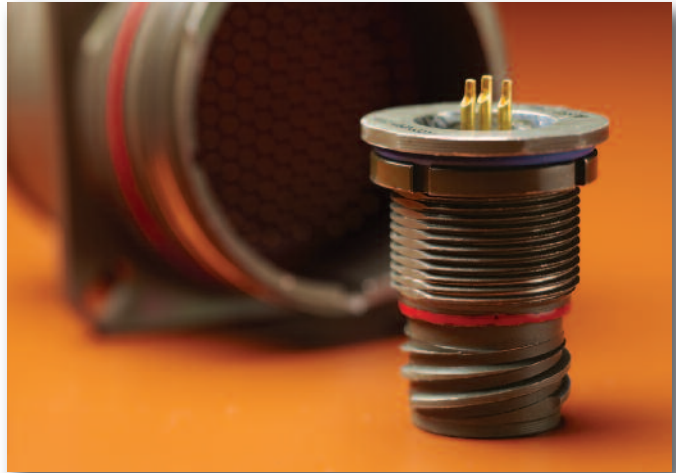


Mini-MIL Connectors

Spectrum's new Mini-MIL circular connectors are small and lightweight offering space and weight savings while providing equivalent performance to standard MIL-DTL-38999 connectors. These connectors are available filtered with C, Pi or mixed capacitance, or unfiltered, and can be customized to satisfy various mechanical and electrical requirements. These connectors are ideal for military, industrial and medical applications where space restrictions do not allow for larger 38999 connectors.



Specifications

Engagement Types:

- Double-start ACME thread
- Triple-start ACME thread

Termination Types:

- PC tail
- Solder cup
- Crimp removable

Receptacle Types:

- Flange mount
- Jam nut

Shell Sizes:

Six shell sizes are available in either pin or socket contact genders

Shell Materials:

Aluminum, stainless steel

Contacts:

Pin and socket contacts are available in various combinations of size 23 to size 12

Electrical Characteristics with C Filter

Capacitance (pF, GMV)*	Working Voltage		Dielectric Withstanding Voltage (VDC)	Minimum Insertion Loss (dB)					
	DC 85°C	AC 85°C		Cut-Off Freq. MHz	1 MHz	10 MHz	100 MHz	500 MHz	1,000 MHz
1,000	200	115	500	5	—	4	21	34	39
2,000	200	115	500	1	—	9	26	39	44
3,000	200	115	500	1	—	12	30	43	48
5,000	200	115	500	1	1	16	34	46	52
7,000	200	115	500	1	3	19	37	49	55
10,000	200	115	500	1	4	21	39	52	57
20,000	100	—	250	.50	9	26	44	57	58

Electrical Characteristics with Pi Filter

Capacitance (pF, GMV)*	Working Voltage		Dielectric Withstanding Voltage (VDC)	Minimum Insertion Loss (dB)					
	DC 85°C	AC 85°C		Cut-Off Freq. MHz	1 MHz	10 MHz	100 MHz	500 MHz	1,000 MHz
1,000	200	115	500	5	—	4	28	54	65
2,000	200	115	500	1	—	8	39	65	70
3,000	200	115	500	1	—	11	47	70	70
5,000	200	115	500	1	1	14	54	70	70
7,000	200	115	500	1	3	18	60	70	70
10,000	200	115	500	1	4	22	64	70	70
20,000	100	—	250	.50	9	33	70	70	70

* Custom values available.

Mini-MIL Connectors

Double-Start Receptacle

- Square flange mount
- Jam nut mount
- Right angle jam nut mount

Double-Start Square Flange and Jam Nut Mount Receptacle

- Contact type: pin or socket
- Termination type: crimp removable, PCB*, and solder cup*

		Shell Size					
Insert Arr.		5	6	7	8	9	10
Insert Arr.	5-3	6-1	7-1	8-2	9-4	10-2	
		6-23	7-25	8-200	9-200	10-5	
		6-4	7-10	8-28	9-201	10-201	
		6-6		8-13	9-210	10-202	
		6-7			9-19	10-200	
						10-26	

Double-Start Right Angle PCB Jam Nut Mount Receptacle

- Contact type: pin or socket
- Termination type: right angle PCB

		Shell Size				
Insert Arr.		5	6	7	8	9
Insert Arr.	5-3	6-4	7-10	8-13	9-19	
		6-7				

Materials and Finishes

Alternate materials and finishes available upon request

Material	Finish	Hrs. Salt Spray	RoHS Compliance
Aluminum	Electroless-Nickel	48	Y
Aluminum	Nickel-PTFE	500	Y
Aluminum	Cadmium, Olive Drab	500	N
Stainless Steel	Electrodeposited Nickel	500	Y
Stainless Steel	Passivated	1000	Y
Stainless Steel	Nickel-PTFE	1000	Y

Triple-Start Receptacle

- Square flange mount
- Jam nut mount

Triple-Start Square Flange and Jam Nut Mount Receptacle

- Contact type: pin or socket
- Termination type: crimp removable, PCB*, and solder cup*

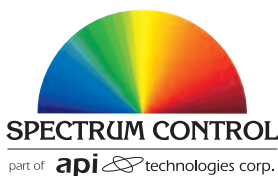
		Shell Size		
Insert Arr.		8	9	10
Insert Arr.	8-1	9-1	10-2	
	8-23	9-25	10-200	
	8-4	9-10	10-28	
	8-6		10-13	
	8-7			

* Non-removable contacts

Other sizes and configurations available contact the factory for further information.

Torque Values

Shell Size		Coupling Torque (lb-in)		Jam Nut Torque (lb-in, recommended)	
Double-Start	Triple-Start	Min.	Max.	Min.	Max.
5	—	25	35	20	25
6	8	35	40	20	25
7	9	35	40	20	25
8	10	40	50	20	25
9	—	40	50	20	25
10	—	50	60	25	30



[Click here to view even more product specs and stats!](#)

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