

D38999/23

Jam Nut Mount Hermetic Receptacle

MIL-DTL-38999 Series III

How To Order: MS

Basic Specification
D38999

Connector Material / Finish
N - CRES, Nickel
Y - CRES, Passivated

Insert Arrangement
Per MIL-STD-1560;
See Pages B2 - B4

Alternate Key Position
A, B, C, D, E
(N = Normal)

D38999

/23

Y

B

35

P

N

Shell Style

/23 - Jam Nut Mount

Shell Size

A - 9 F - 19
B - 11 G - 21
C - 13 H - 23
D - 15 J - 25
E - 17

Contact Termination

P - Pin, Solder Cup S - Socket, Solder Cup
X - Pin, Eyelet Z - Socket, Eyelet
C - Pin, PCB D - Socket, PCB
Flex Feedthrough Flex Feedthrough

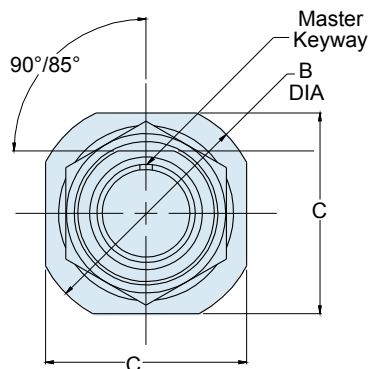
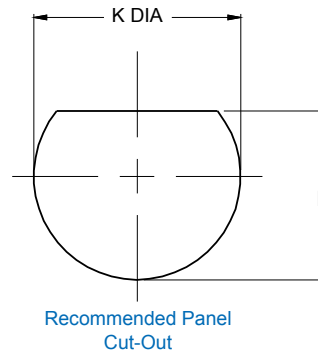
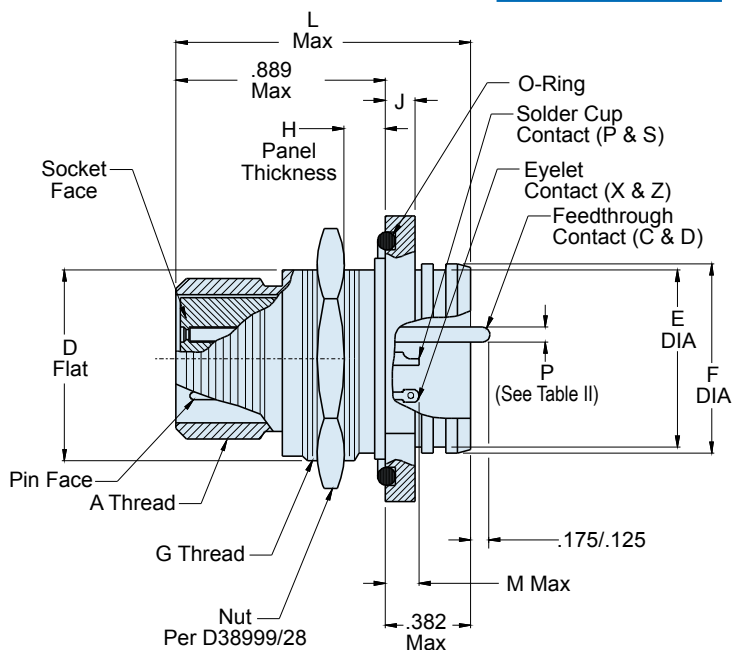
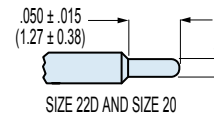


TABLE II: CONTACT SIZE

PRINTED CIRCUIT TAIL CONFIGURATIONS
CONTACT STYLE C AND D



SIZE 12 AND SIZE 16



SIZE 22D AND SIZE 20

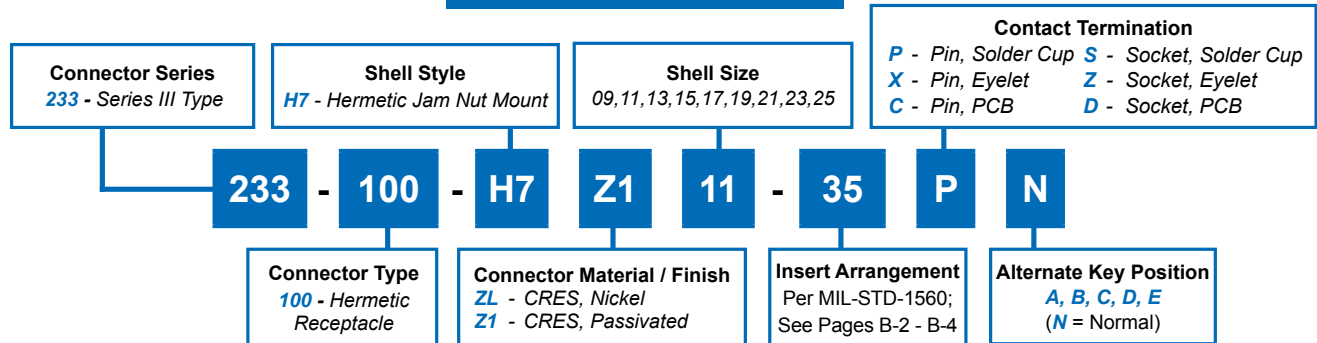
Contact Size	ø P
22D	.011 (0.28) .015 (0.38)
20	.024 (0.61) .028 (0.71)
16	.0635 (1.61) .0615 (1.56)
12	.095 (2.41) .093 (2.36)

D38999/23 Jam Nut Mount Hermetic Receptacle MIL-DTL-38999 Series III



D38999 QPL
Hermetics

How To Order: Commercial



B

TABLE I: CONNECTOR DIMENSIONS

SHELL SIZE CODE	SHELL SIZE	A THREAD -0.1P-0.03L- TS	B DIA	C A/F ±.015(0.4)	D FLAT ±.005(0.1)	E DIA ±.012(0.3)	F DIA	G THREAD ISO METRIC	H ±.032(0.8)
A	9/09	0.625	1.200(30.5) 1.178(29.9)	1.063(27.0)	.650(16.5)	.603(15.3)	.653(16.6) .642(16.3)	M17 X 1.0-6g	.094(2.4)
B	11	0.750	1.385(35.2) 1.363(34.6)	1.252(31.8)	.750(19.1)	.725(18.4)	.775(19.7) .764(19.4)	M20 X 1.0-6g	.094(2.4)
C	13	0.875	1.511(38.4) 1.489(37.8)	1.374(34.9)	.937(23.8)	.851(21.6)	.905(23.0) .894(22.7)	M25 X 1.0-6g	.094(2.4)
D	15	1.000	1.637(41.6) 1.615(41.0)	1.500(38.1)	1.061(26.9)	.977(24.8)	1.031(26.2) 1.020(25.9)	M28 X 1.0-6g	.094(2.4)
E	17	1.187	1.763(44.8) 1.741(44.2)	1.626(41.3)	1.186(30.1)	1.103(28.0)	1.153(29.3) 1.142(29.0)	M32 X 1.0-6g	.094(2.4)
F	19	1.250	1.948(49.5) 1.926(48.9)	1.811(46.0)	1.311(33.3)	1.229(31.2)	1.278(32.5) 1.268(32.2)	M35 X 1.0-6g	.094(2.4)
G	21	1.375	2.074(52.7) 2.051(52.1)	1.937(49.2)	1.436(36.5)	1.351(34.3)	1.405(35.7) 1.394(35.4)	M38 X 1.0-6g	.094(2.4)
H	23	1.500	2.200(55.9) 2.177(55.3)	2.063(52.4)	1.561(39.6)	1.477(37.5)	1.531(38.9) 1.520(38.6)	M41 X 1.0-6g	.094(2.4)
J	25	1.625	2.322(59.0) 2.300(58.4)	2.189(55.6)	1.686(42.8)	1.603(40.7)	1.653(42.0) 1.642(41.7)	M44 X 1.0-6g	.094(2.4)

TABLE I: (Continued) CONNECTOR DIMENSIONS

J ±.008(0.2)	K DIA ±.005 (0.1)	L MAX	M MAX		N ±.005 (0.1)
			P&X	S&Z	
.106(2.7)	.703/.693 (17.86/17.60)	1.149(29.2)	.208(5.3)	.232(5.9)	.657/.655 (16.69/16.70)
.106(2.7)	.835/.825 (20.96/20.96)	1.149(29.2)	.208(5.3)	.232(5.9)	.771/.769 (19.58/19.53)
.106(2.7)	1.020/1.010 (25.65/25.65)	1.153(29.3)	.200(5.1)	.224(5.7)	.955/.953 (24.26/24.21)
.106(2.7)	1.145/1.135 (28.83/28.83)	1.153(29.3)	.200(5.1)	.224(5.7)	1.085/1.083 (27.56/27.51)
.106(2.7)	1.270/1.260 (32.01/32.00)	1.153(29.3)	.200(5.1)	.224(5.7)	1.210/1.208 (30.73/30.68)
.138(3.5)	1.395/1.385 (35.43/35.18)	1.185(30.1)	.200(5.1)	.224(5.7)	1.335/1.333 (33.91/33.86)
.138(3.5)	1.520/1.510 (38.60/38.35)	1.185(30.1)	.200(5.1)	.224(5.7)	1.460/1.458 (37.08/37.03)
.138(3.5)	1.645/1.635 (41.78/41.53)	1.185(30.1)	.200(5.1)	.224(5.7)	1.585/1.583 (40.26/40.21)
.138(3.5)	1.770/1.760 (44.96/44.70)	1.185(30.1)	.200(5.1)	.224(5.7)	1.710/1.708 (43.43/43.38)



MIL-DTL-38999 Series I, II, III, and IV Hermetic Class Connectors Insert Arrangements (IAW MIL-STD-1560)

Series I	9-35	9-98	11-2	11-4	11-5	11-35	11-98	11-99
Series II	8-35	8-98	10-2	10-4	10-5	10-35	10-98	10-99
Series III	A35	A98	B2	B4	B5	B35	B98	B99
Series IV	---	---	---	---	B5	B35	B98	B99

Series I	13-4	13-8	13-35	13-98
Series II	12-4	12-8	12-35	12-98
Series III	C4	C8	C35	C98
Series IV	C4	---	C35	C98

Series I	15-5	15-15	15-18	15-19	15-35	15-97
Series II	14-5	14-15	14-18	14-19	14-35	14-97
Series III	D5	D15	D18	D19	D35	D97
Series IV	D5	---	D18	D19	D35	D97

Series I	17-6	17-8	17-26	17-35	17-99
Series II	16-6	16-8	16-26	16-35	16-99
Series III	E6	E8	E26	E35	E99
Series IV	E6	E8	E26	E35	---

Series I	19-11	19-28	19-32	19-35	19-30	19-45
Series II	18-11	18-28	18-32	18-35	18-30	18-45
Series III	F11	F28	F32	F35	F30	F45
Series IV	F11	---	F32	F35	---	---

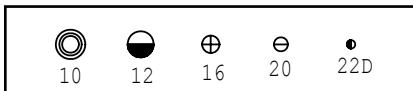
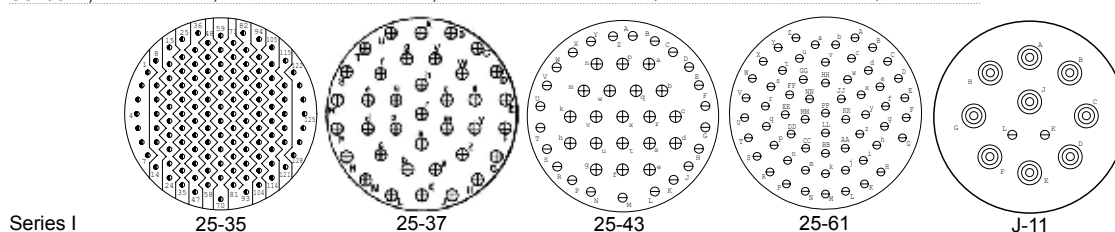
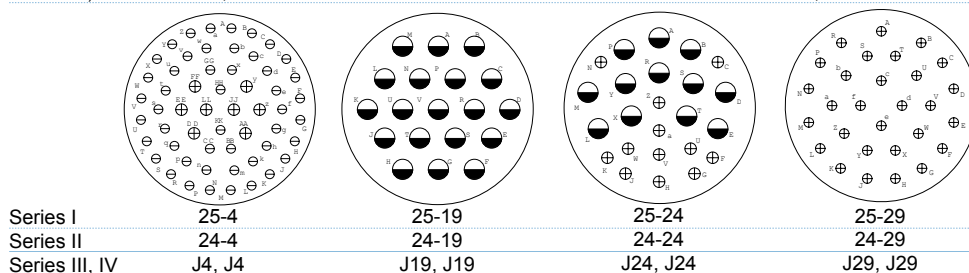
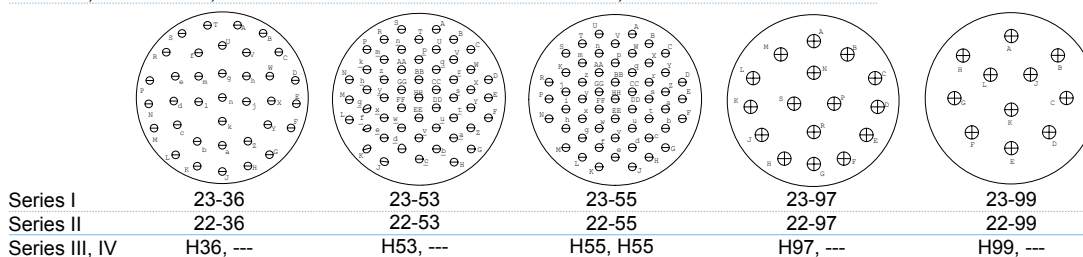
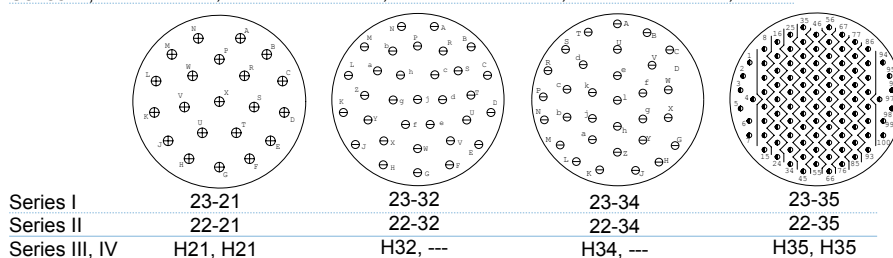
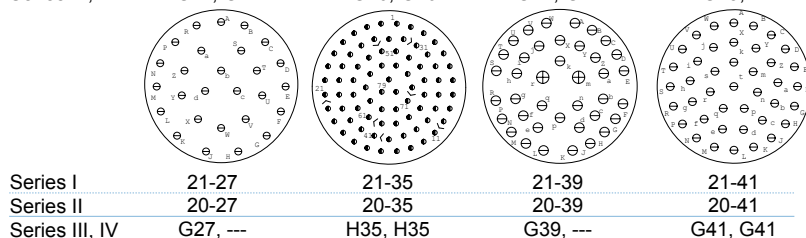
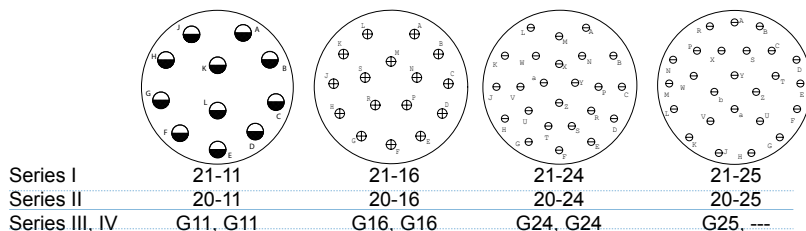


MIL-DTL-38999 Series I, II, III, and IV Hermetic Class Connectors Insert Arrangements (IAW MIL-STD-1560)



MIL-DTL
38999

B





MIL-DTL-38999 Series I, II, III, and IV Hermetic Class Connectors Layouts and Pin Counts

B

Shell Size and Insert Arrangements			Number of Pins			
MS Series I	MS Series II	D38999 Series III	22D	20	16	12
9-35	8-35	A35	6			
9-98	8-98	A98		3		
11-2	10-2	B2			2	
11-4	10-4	B4		4		
11-5	10-5	B5		5		
11-35	10-35	B35	13			
11-98	10-98	B98		6		
11-99	10-99	B99		7		
13-4	12-4	C4			4	
13-8	12-8	C8		8		
13-35	12-35	C35	22			
13-98	12-98	C98		10		
15-5	14-5	D5			5	
15-15	14-15	D15		14	1	
15-18	14-18	D18		18		
15-19	14-19	D19		19		
15-35	14-35	D35	37			
15-97	14-97	D97		8	4	
17-6	16-6	E6				6
17-8	16-8	E8			8	
17-26	16-26	E26		26		
17-35	16-35	E35	55			
17-99	16-99	E99		21	2	
19-11	18-11	F11			11	
19-28	18-28	F28		26	2	
19-30	18-30	F30		29	1	
19-32	18-32	F32		32		
19-35	18-35	F35	66			
19-45	18-45	F45	67			
21-11	20-11	G11				11
21-16	20-16	G16			16	
21-24	20-24	G24		24		
21-25	20-25	G25		25		
21-27	20-27	G27		27		
21-35	20-35	G35	79			
21-39	20-39	G39		37	2	
21-41	20-41	G41		41		
23-21	22-21	H21			21	
23-32	22-32	H32		32		
23-34	22-34	H34		34		
23-35	22-35	H35	100			
23-36	22-36	H36		36		
23-53	22-53	H53		53		
23-55	22-55	H55		55		
23-97	22-97	H97			16	
23-99	22-99	H99			11	
25-4	24-4	J4		48	8	
25-19	24-19	J19				19
25-24	24-24	J24			12	12
25-29	24-29	J29			29	
25-35	24-35	J35	128			
25-37	N/A	J37	37		37	16
25-43	24-43	J43		23	20	
25-61	24-61	J61		61		

Shell Size / Insert Arrangements	Number of Pins				
D38999 Series IV	22D	20	16	12	10
B5		5			
B35	13				
B98		6			
B99		7			
C4			4		
C35	22				
C98		10			
D5			5		
D18		18			
D19	37	19			
D35					
D97		8	4		
E6				6	
E8			8		
E26		26			
E35	55				
F11			11		
F32		32			
F35	66				
G11				11	
G16			16		
G35	79				
G41		41			
H21			21		
H35	100				
H55		55			
J4		48	8		
J11		2			9
J19				19	
J24			12	12	
J29			29		
J35	128				
J43		23	20		
J61		61			
J37			37		