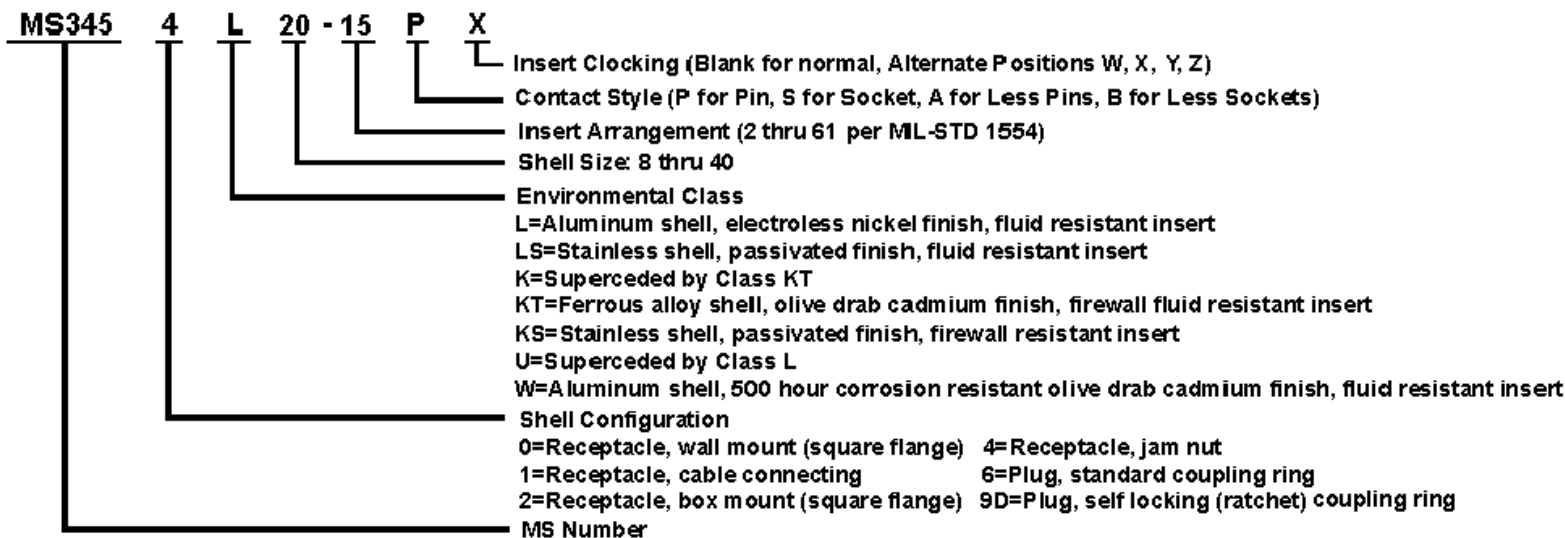


Size	Part Number	Part Number	Part Number	Part Number	Part Number
16S	M39029/30-217	N/A	MS27488-16	M22520/1-02	MS27488-16
16	M39029/30-218	M39029/29-212	MS27488-16	M22520/1-02	MS27488-16
12	M39029/30-219	M39029/29-213	MS27488-12	M22520/1-02	MS27488-12
8	M39029/30-220	M39029/29-214	MS27488-8	M22520/23-02	MS27488-8
4	M39029/30-221	M39029/29-215	MS27488-4	M22520/23-04	MS27488-4
0	M39029/30-222	M39029/29-216	MS27488-0	M22520/23-05	MS27488-0

Size	A	B	C	U
16	1.047	0.906	0.964	1.20
20	1.413	1.150	1.365	1.20
22	1.578	1.250	1.485	1.20
24	1.708	1.375	1.615	1.20

MILITARY PART NUMBERING SYSTEM



- [MIL-DTL-5015 Insert Contacts, Service Rating & Clocking Positions](#)
- [MIL-DTL-5015 Insert Arrangements](#)
- [MS3450 Wall Mount Receptacle](#)
- [MS3451 Cable Connecting Receptacle](#)
- [MS3452 Box Mount Receptacle](#)
- [MS3454 Single Hole Mount Receptacle](#)
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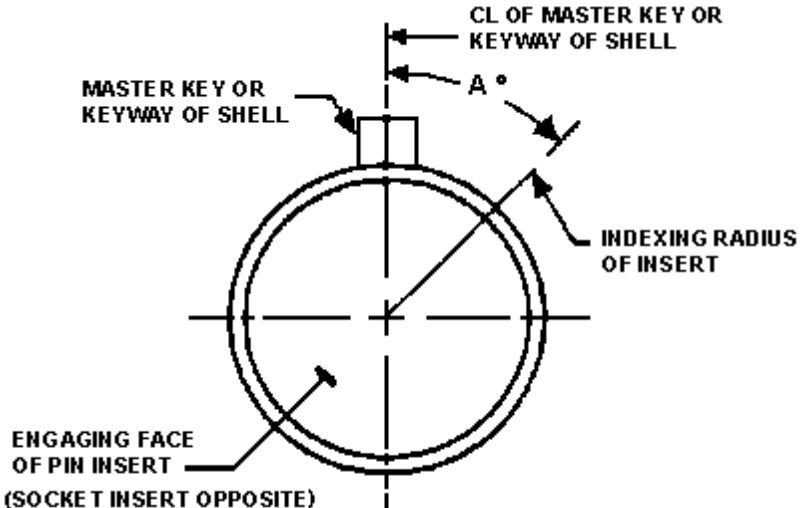


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MIL-DTL-5015 Insert Contacts, Service Rating & Clocking Positions

SHELL SIZE	A	B	C	D	E	F	G	H	J
8	MAX	±.005	±.005	±.005	MAX	-0°	+0.10	MAX	1H-EAD 2A
8	.828	.564	.568	.120	1.215	.446	.062	.087	.62-20 UNF
10	.964	.719	.685	.120	1.215	.446	.062	.087	.58-24 UNF
12	1.047	.812	.824	.120	1.215	.446	.062	.087	.54-20 UNF
14	1.131	.906	.963	.120	1.215	.446	.062	.087	.75-20 UNF
16	1.234	.980	1.115	.120	1.215	.446	.062	.087	1-20 UNF
18	1.338	1.002	1.205	.120	1.215	.446	.062	.087	1.116-8 UNF
20	1.443	1.100	1.363	.120	1.275	.572	.094	.212	1.316-8 UNF
22	1.578	1.150	1.485	.120	1.275	.572	.094	.212	1.516-8 UNF
24	1.708	1.375	1.615	.147	1.275	.604	.094	.212	1.716-8 UNF



NORMAL POSITION - the centerline of the face view of the insert pattern is aligned with the shell key on the plug and keyway on the receptacle. Angle A on the above drawing would be at zero degrees.

ALTERNATE POSITION - the centerline of the face view of the insert pattern is rotated in relationship to the shell key on the plug and keyway on the receptacle. Pin key inserts are rotated clockwise (CW). For example, a 14S-7 pin insert layout in the X position would have an angle A of 180 degrees.

SHELL SIZE	A	B	C	D	E	F	G	H	J
8	MAX	±.005	±.005	±.005	MAX	-0°	+0.10	MAX	1H-EAD 2A
8	.828	.564	.568	.120	1.215	.446	.062	.087	.62-20 UNF
10	.964	.719	.685	.120	1.215	.446	.062	.087	.58-24 UNF
12	1.047	.812	.824	.120	1.215	.446	.062	.087	.54-20 UNF
14	1.131	.906	.963	.120	1.215	.446	.062	.087	.75-20 UNF
16	1.234	.980	1.115	.120	1.215	.446	.062	.087	1-20 UNF
18	1.338	1.002	1.205	.120	1.215	.446	.062	.087	1.116-8 UNF
20	1.443	1.100	1.363	.120	1.275	.572	.094	.212	1.316-8 UNF
22	1.578	1.150	1.485	.120	1.275	.572	.094	.212	1.516-8 UNF
24	1.708	1.375	1.615	.147	1.275	.604	.094	.212	1.716-8 UNF

MIL-DTL-5015 INSERT CONTACTS, SERVICE RATING AND CLOCKING POSITIONS

SHELL SIZE		INSERT ARRANGEMENTS		CONTACTS		SERVICE RATING	ALTERNATE INSERT POSITIONS (DEGREES)				REMARKS
M83723 II	5015 III	5015 III	M83723 II	QTY.	SIZE		W	X	Y	Z	
8	8S	8S-1	0801	1	16	A	-	-	-	-	
10	10S	10S-2	1002	1	16	A	-	-	-	-	
11	10SL	10SL-3	1103	3	16	A	-	-	-	-	SERVICE RATING INST. CLASS K
	10SL	10SL-4	1104	2	16	A	-	-	-	-	
13	12S	12S-1	1301	2	16	A	Insert rotated 100° CW in shell				Made from shell 12S-3
	12S	12S-2	1302	2	16	A	Insert rotated 100° CW in shell				Made from 12S-3
	12S	12S-3	1303	2	16	A	70	145	215	290	

	12S	12S-4	1304	1	16	D	-	-	-	-	
12	12	12-5	1205	1	12	D	-	-	-	-	
15	14S	14S-1	1501	3	16	A	-	-	-	-	
	14S	14S-2	1502	4	16	Inst.	-	120	140	-	
SHELL SIZE		INSERT ARRANGEMENTS		CONTACTS		SERVICE RATING	ALTERNATE INSERT POSITIONS (DEGREES)				REMARKS
M83723 II	5015 III	5015 III	M83723 II	QTY.	SIZE		W	X	Y	Z	
14	14	14-3	1403	1	8	A	-	-	-	-	
15	14S	14S-5	1505	5	16	Inst.	-	110	-	-	
	14S	14S-6	1506	6	16	Inst.	-	-	-	-	
	14S	14S-7	1507	3	16	A	90	180	270	-	
	14S	14S-9	1509	2	16	A	70	145	215	290	
	14S	14S-10	1510	4	16	Inst.	Insert rotated 100' CW in shell				Made from 14S-2
	14S	14S-11	1511	4	16	Inst.	Insert rotated 100' CW in shell				Made from 14S-2
	14S	14S-12	1512	3	16	A	Insert rotated 100' CW in shell				Made from 14S-1
	14S	14S-13	1513	3	16	A	Insert rotated 100' CW in shell				Made from 14S-1
17	16S	16S-1	1701	7	16	A	80	-	-	280	
16	16	16-2	1602	1	12	E	-	-	-	-	
SHELL SIZE		INSERT ARRANGEMENTS		CONTACTS		SERVICE RATING	ALTERNATE INSERT POSITIONS (DEGREES)				REMARKS
M83723 II	5015 III	5015 III	M83723 II	QTY.	SIZE		W	X	Y	Z	
17	16S	16-3	1703	1	16	B	-	-	-	-	
16S	16-4	1704	2	16	D	35	110	250	325		
16	16	16-7	1607	2	16	A	80	110	250	280	
17	16S	16S-8	1708	5	16	A	-	170	265	-	
16	16	16-9	1609	2	16	A	35	110	250	325	
	16	16-10	1610	3	12	A	90	180	270	-	
	16	16-11	1611	2	12	A	35	110	250	325	
	16	16-12	1612	1	4	A	-	-	-	-	
	16	16-13	1613	2	12	A	35	110	250	325	
SHELL SIZE		INSERT ARRANGEMENTS		CONTACTS		SERVICE RATING	ALTERNATE INSERT POSITIONS (DEGREES)				REMARKS
M83723 II	5015 III	5015 III	M83723 II	QTY.	SIZE		W	X	Y	Z	
	18	18-1	1801	4	16	A(B,C, F,G) INST	70	145	215	290	
	18	18-4	1804	4	16	D	35	110	250	325	
	18	18-5	1805	1	16	D	80	110	250	280	
				2	12						

18	18-6	1806	1	4	D	-	-	-	-		
18	18-7	1807	1	8	B	-	-	-	-		
18	18-8	1808	7 1	16 12	A	70	-	-	290		
18	18-9	1809	5 2	16 12	INST	80	110	250	280		
18	18-10	1810	4	12	A	-	120	240	-		
18	18-11	1811	5	12	A	-	170	265	-		
18	18-12	1812	6	16	A	80	-	-	280		
18	18-13	1813	3 1	12 8	A	80	110	250	280		
18	18-14	1814	1 1	16 4	A	80	110	250	280		
18	18-15	1815	4	12	A	-	120	240	-		
18	18-16	1816	1	12	C	-	-	-	-		
18	18-17	1817	5 2	16 12	INST	Insert rotated 100' CW in shell				Made from 18-9	
18	18-18	1818	5 2	16 12	INST	Insert rotated 100' CW in shell				Made from 18-9	
18	18-19	1819	10	16	A	-	120	240	-		
18	18-22	1822	3	16	D	70	145	215	290		
18	18-23	1823	4 6	16	A INST	Insert rotated 100' CW in shell				Made from 18-1	
18	18-24	1824	4 6	16	A INST	Insert rotated 100' CW in shell				Made from 18-1	
18	18-27	1827	1 2	16 12	D	Insert rotated 100' CW in shell				Made from 18-5	
SHELL SIZE		INSERT ARRANGEMENTS		CONTACTS		SERVICE RATING	ALTERNATE INSERT POSITIONS (DEGREES)				REMARKS
M83723 II	5015 III	5015 III	M83723 II	QTY.	SIZE		W	X	Y	Z	
18	18-28	1828	1 2	16 12	D	Insert rotated 100' CW in shell				Made from 18-5	
20	20-2	2002	1	0	D	-	-	-	-		
20	20-4	2004	4	12	D	45	110	250	-		
20	20-7	2007	4 4	16 16	D(A,B,G,H) A(all others)	80	110	250	280		
20	20-8	2008	4 2	16 8	INST	80	110	250	280		
20	20-9	2009	1 7	12 16	D(H) A(all others)	80	110	250	280		
20	20-14	2014	3 2	12 8	A	80	110	250	280		
20	20-15	2015	7	12	A	80	-	-	280		

20

20	20-16	2016	7 2	16 12	A	80	110	250	280	
20	20-17	2017	1 5	16 12	A	90	180	270	-	
20	20-18	2018	6 3	16 12	A	35	110	250	325	
20	20-21	2021	8 1	16 12	A	35	110	250	325	
20	20-22	2022	3 3	16 8	A	80	110	250	280	
20	20-24	2024	2 2	16 8	A	35	110	250	325	
20	20-27	2027	14	16	A	35	110	250	325	
20	20-29	2029	17	16	A	80	-	-	280	
20	20-32	2032	4 4	16 16	D(A,B,G,H) A(all others)	Insert rotation 260° CW in shell			Made from 20-7	
20	20-33	2033	11	16	A	-	-	-	-	

SHELL SIZE		INSERT ARRANGEMENTS		CONTACTS		SERVICE RATING	ALTERNATE INSERT POSITIONS (DEGREES)				REMARKS
M83723 II	5015 III	5015 III	M83723 II	QTY.	SIZE		W	X	Y	Z	

22

22	22-2	2202	3	8	D	70	145	215	290	
22	22-4	2204	2 2	12 8	A	35	110	250	325	
22	22-5	2205	4 2	16 12	D	35	110	250	325	
22	22-6	2206	1 2	16 8	D	80	110	250	280	
22	22-7	2207	1	0	E	-	-	-	-	
22	22-9	2209	3	12	E	80	110	250	280	
22	22-10	2210	4	16	E	35	110	250	325	
22	22-11	2211	2	16	B	35	110	250	325	
22	22-12	2212	3 2	16 8	D	80	110	250	280	
22	22-14	2214	19	16	A	80	110	250	280	
22	22-15	2215	1 5	16 12	E (D) A(all others)	80	110	250	280	
22	22-17	2217	1 7 1	16 16 12	D (A) A A(all others)	80	110	250	280	
22	22-18	2218	3 5	16 16	A (C,D,E) D(all others)	80	110	250	280	
22	22-19	2219	14	16	A	80	110	250	280	
22	22-21	2221	2 1	16 0	A	80	110	250	280	

	22	22-22	2222	4	8	A	-	110	250	-		
	22	22-23	2223	1 7	12 12	D(H) all others	35	-	250	-		
	22	22-27	2227	1 8	8 16	D(J) A(all others)	80	-	250	280		
	22	22-30	2230	19	16	A	Insert rotated 260' CW in shell				Made from 22-14	
	22	22-32	2232	4 2	16 12	D	Insert rotated 260' CW in shell				Made from 22-5	
	22	22-36	2236	1 7	12 12	D(H) A(all others)	90	-	270	-		
	SHELL SIZE		INSERT ARRANGEMENTS		CONTACTS		SERVICE RATING	ALTERNATE INSERT POSITIONS (DEGREES)				REMARKS
	M83723 II	5015 III	5015 III	M83723 II	QTY.	SIZE		W	X	Y	Z	
24	24	24-1	2401	1 1	12 0	D	80	110	250	280		
	24	24-2	2402	7	12	D	80	-	-	280		
	24	24-4	2404	3 1	16 0	D	80	110	250	280		
	24	24-5	2405	16	16	A	80	110	250	280		
	24	24-6	2406	3 5	12 12	D(A,G,H) A(all others)	80	110	250	280		
	24	24-7	2407	14 2	16 12	A	80	110	250	280		
	24	24-10	2410	7	8	A	80	-	-	280		
	24	24-11	2411	6 3	12 8	A	35	110	250	325		
	24	24-12	2412	3 2	2 8	A	80	110	250	280		
	24	24-15	2415	16	16	A	Insert rotated 100' CW from shell				Made from 24-5	
	24	24-16	2416	3 1 3	16 8 12	D(A,B,F) D(G) A(all others)	80	110	250	280		
	24	24-20	2420	9 2	16 12	D	80	110	250	280		
	24	24-21	2421	9 1	16 8	D	80	110	250	280		
	24	24-22	2422	4	8	D	45	110	250	-		
	24	24-24	2424	16	16	A	Insert rotated 250' CW in shell				Made from 24-5	
	24	24-27	2427	7	16	E	80	-	-	280		
24	24-28	2428	24	16	INST	80	110	250	280			
24	24-80	2480	23	16	INST	35	145	240	300			

SHELL SIZE		INSERT ARRANGEMENTS		CONTACTS		SERVICE RATING	ALTERNATE INSERT POSITIONS (DEGREES)				REMARKS
M83723 II	5015 III	5015 III	M83723 II	QTY.	SIZE		W	X	Y	Z	
28	28	28-1	2801	2 4 1 2	12 12 8 8	D(A & E) A(B,D,F,H) D (J) A(G & C)	80	110	250	280	
	28	28-2	2802	12 2	16 12	D	35	110	250	325	
	28	28-3	2803	3	8	E	70	145	215	290	
	28	28-4	2804	3 4 2	16 16 12	E(G,P,S) D(A,B,E,F) D(C & D)	80	110	250	280	
	28	28-5	2805	2 1 2	16 12 4	D	35	110	250	325	
	28	28-8	2808	2 1 9	12 16 16	E(L & M) D(B) A(All others)	80	110	250	280	
	28	28-9	2809	6 6	16 12	D	80	110		280	
	28	28-10	2810	1 2 2 2	12 12 8 4	D(G) A (A, F) A (B,E) A (C,D)	80	110	250	280	
	28	28-11	2811	18 4	16 12	A	80	110	250	280	
	28	28-12	2812	26	16	A	90	180	270		
	28	28-15	2815	35	16	A	80	110	250	280	
	28	28-16	2816	20	16	A	80	110	250	280	
	28	28-17	2817	1 3 11	16 16 16	B (R) D (M,N,P) A(All others)	80	110	250	280	
	28	28-18	2818	1 2 4 5	16 16 16 16	C (M) A (A, B) Inst(C,D,E,F) D(All others)	70	145	215	290	
	28	28-19	2819	2 2 2 4	16 16 16 12	B (H, M) D (A, B) (All others)	80	110	250	280	
	28	28-20	2820	4 10	16 12	A	80	110	250	280	
	28	28-21	2821	37	16	A	80	110	250	280	
	28	28-22	2822	3 3	16 4	D	70	145	215	290	

INSERT

CONTACTS

ALTERNATE INSERT

SHELL SIZE		ARRANGEMENTS				SERVICE RATING	POSITIONS (DEGREES)				REMARKS
M83723 II	5015 III	5015 III	M83723 II	QTY.	SIZE		W	X	Y	Z	
32	32	32-1	3201	1 2 2	12 12 0	E (A) D (D,C) D (B, E)	80	110	250	280	
	32	32-2	3202	2 3	16 4	E	70	145	215	290	
	32	32-3	3203	4 2 2 1	16 12 4 0	D	80	110	350	280	
	32	32-6	3206	16 2 3 2	16 12 8 4	A	80	110	250	280	
	32	32-7	3207	4 24 7	16 16 12	Inst(A,B,H,J) A (All others)	80	125	235	280	
	32	32-9	3209	12 2	16 4	D	80	110	250	280	
	32	32-13	3213	18 5	16 12	D	80	110	250	280	
	32	32-15	3215	6 2	16 0	D	35	110	250	280	
	32	32-17	3217	4	4	D	45	110	250	-	
	32	32-19	3219	1 2 2	12 12 0	E (A) D (D,C) D (B, E)	Insert rotated 260° CW in shell				Made from 32-1
	32	32-20	3220	16 2 3 2	16 12 8 4	A	Insert rotated 260° CW in shell				Made from 32-6
	32	32-22	3222	54	16	A	80	110	250	280	U=100°,V=260°
	32	32-63	3263	5	4	D	-	-	-	-	
32	32-73	3273	46	16	A	36	-	-	-		
SHELL SIZE		INSERT ARRANGEMENTS		CONTACTS		SERVICE RATING	ALTERNATE INSERT POSITIONS (DEGREES)				REMARKS
M83723 II	5015 III	5015 III	M83723 II	QTY.	SIZE		W	X	Y	Z	
36	36	36-3	3603	3 3	12 0	D	70	145	215	290	
	36	36-5	3605	4	0	A	-	120	240	-	
	36	36-6	3606	4 2	4 0	A	35	110	250	325	
	36	36-7	3607	40 7	16 12	A	80	110	250	280	

ROULED	ROULED	ROULED	ROULED	ROULED	ROULED	ROULED	ROULED	ROULED	ROULED	ROULED	ROULED	ROULED	ROULED
40	40-7	4007	2	2	A(W & X) A(U & V) A(P & Q) D(All others)	80	110	250	280				
40	40-9	4009			A	65	125	255	310				
40	40-10	4010			A	65	125	255	310				
40	40-11	4011		16 12 8 4 0	D	80	110	250	280				
40	40-56	4056	85	16	A	72	144	216	288				
40	40-62	4062	60	16	A	30	130	220	290				

NOTE: This tabulation includes the MIL-C-83723 Series II connectors that are no longer recommended for retro-fit or new design. The difference between the MIL-C-5015 Series III and the MIL-C-83723 Series II is the MIL-C-5015 Series III has a captivated coupling ring on the plug. MIL-C-83723 Series II has a separate coupling ring retained when the backshell is attached. Otherwise, they are identical and interchangeable.

For pricing and availability, please fill out our RFQ form



If you need any other information, please [E-Mail aecs@aecsinc.com](mailto:aecs@aecsinc.com)



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We look forward to hearing from you!

SHELL	A	B	C	D	E	F	G	H	J
5077	MAX	±.005	±.002	±.006	MAX	±.015	±.010	MAX	TH-HEAD 3A
8	828	564	568	120	1215	446	862	867	11/16-18 UNF
16	1234	868	1115	120	1215	446	867	11/16-18 UNF	
18	1328	1002	1206	120	1215	446	867	11/16-18 UNF	
20	1418	1150	1				212	13/16-18 UNF	
22	1578	1350	1				212	15/16-18 UNF	
24	1708	1375	1				212	17/16-18 UNF	



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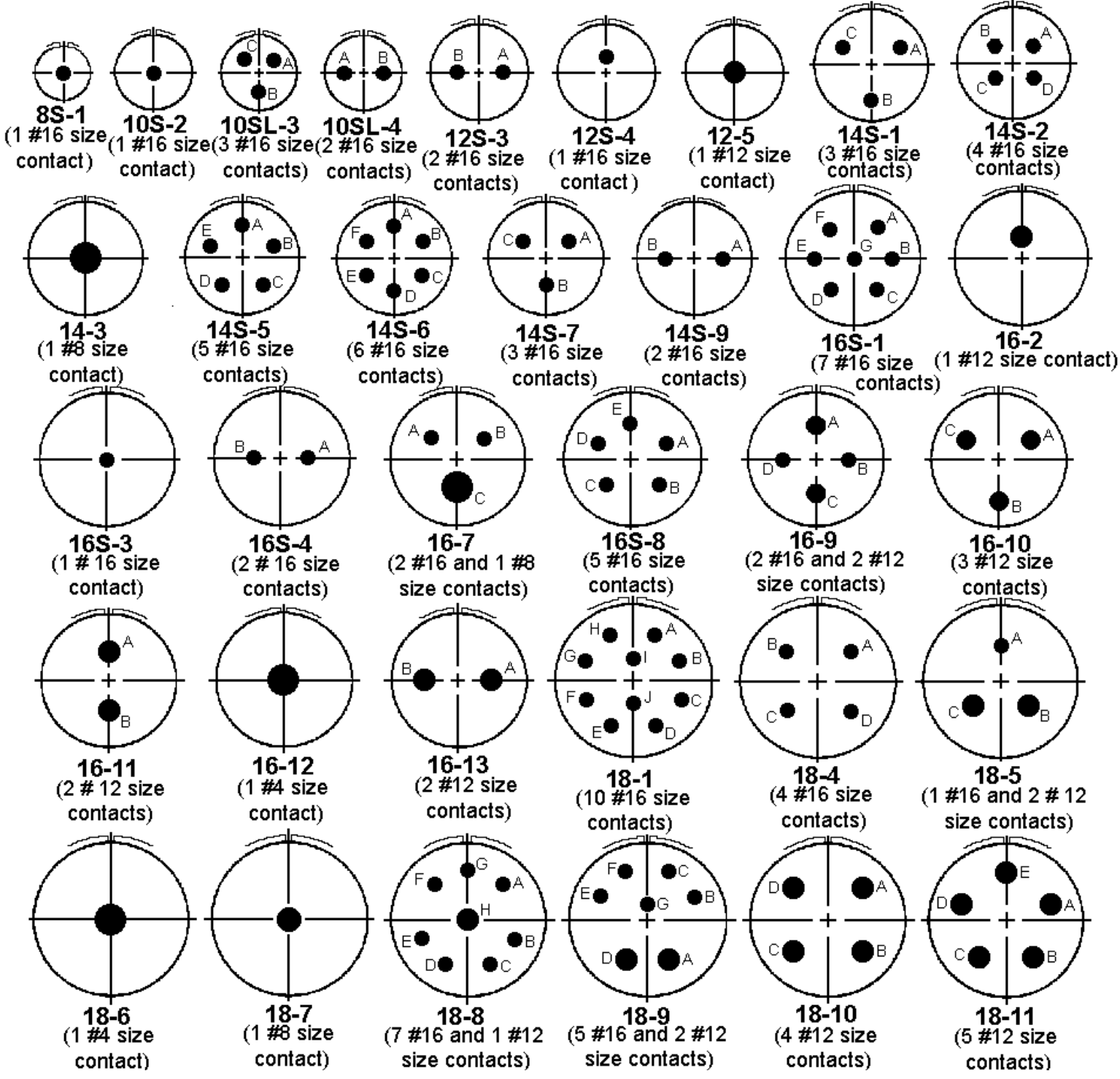
Allen Electric Connector Sales, Inc.

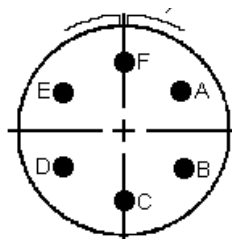


MIL-DTL-5015 Insert Arrangements

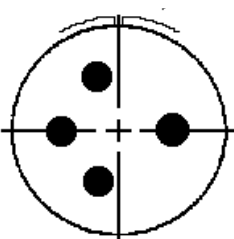
Insert arrangements for all MIL-DTL-5015 Series III are the same. The insert arrangements are made by combining the shell size (first two numbers) with the insert arrangement number (last two numbers). For example, a MS3454L14-3P is a shell size 14 with a 3 insert for a 14-3 insert arrangement. Insert arrangements are shown in numerical order by shell size and number of contacts in each shell size.

SHELL SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	
14	1.4-3	1.150	1.363	20	1.275	1.50	0.94	2.2	1.316	2.1	NEF																

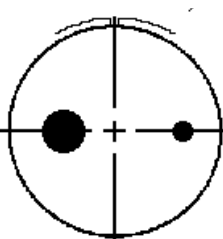




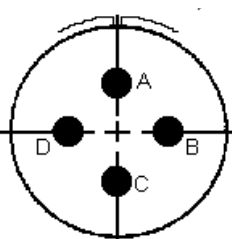
18-12
(6 #16 size contacts)



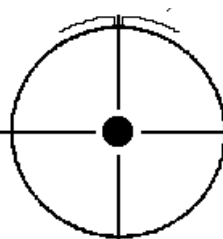
18-13
(3 #12 and 1 #8 size contacts)



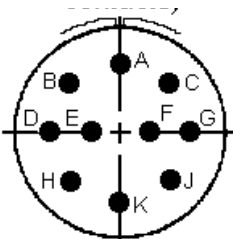
18-14
(1 #16 and 1 #4 size contacts)



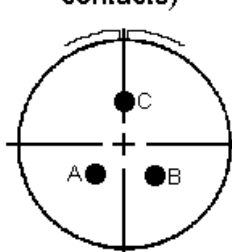
18-15
(4 #12 size contacts)



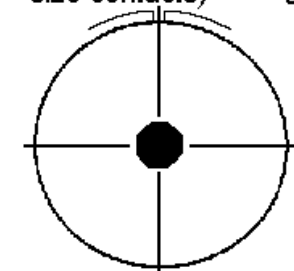
18-16
(1 #12 size contact)



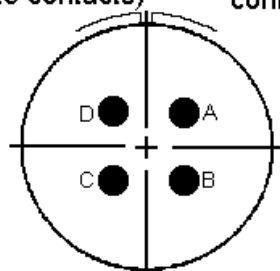
18-19
(10 #16 size contacts)



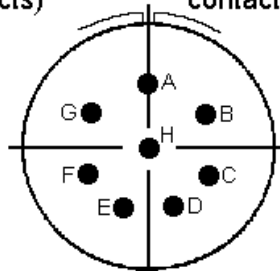
18-22
(3 #16 size contacts)



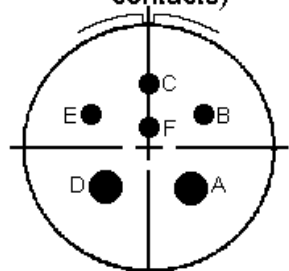
20-2
(1 #0 size contact)



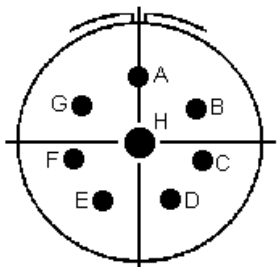
20-4
(4 #12 size contacts)



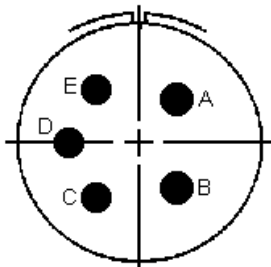
20-7
(8 #16 size contacts)



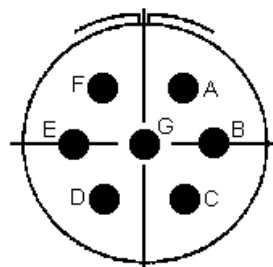
20-8
(4 #16 and 2 #8 size contacts)



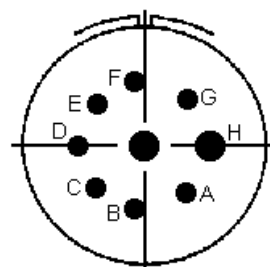
20-9
1 # 12, 7 # 16



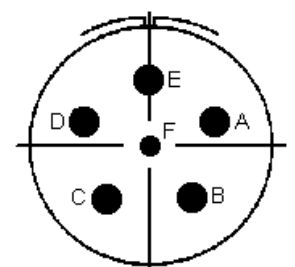
20-14
3 # 12, 2 # 8



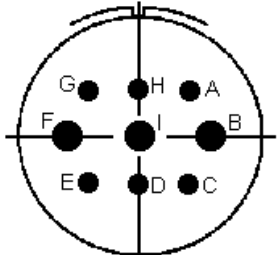
20-15
7 # 12



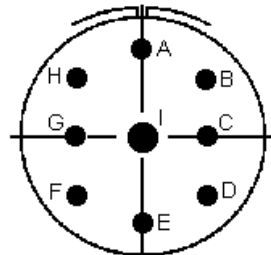
20-16
7 # 16, 2 # 12



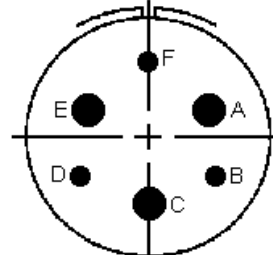
20-17
1 # 16, 5 # 12



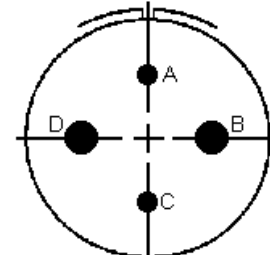
20-18
6 # 16, 3 # 12



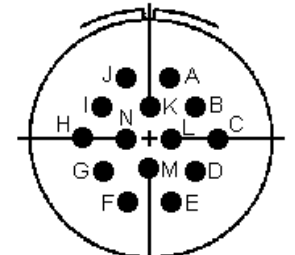
20-21
8 # 16, 1 # 12



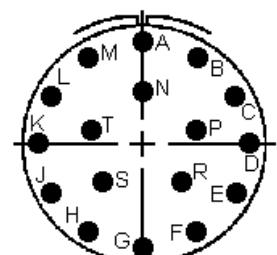
20-22
3 # 16, 3 # 8



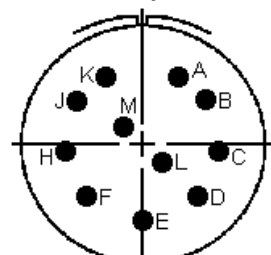
20-24
2 # 16, 2 # 8



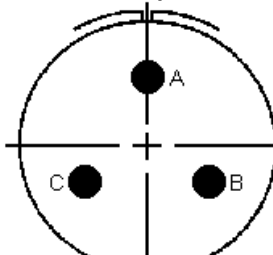
20-27
14 # 16



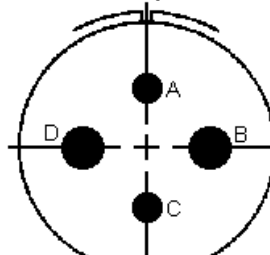
20-29
17 # 16



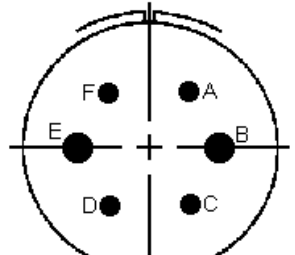
20-33
11 # 16



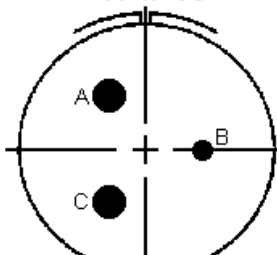
22-2
3 # 8



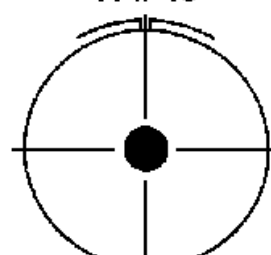
22-4
2 # 12, 2 # 8



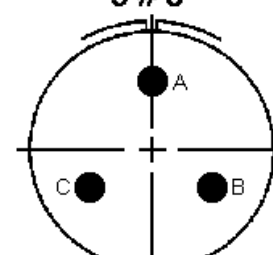
22-5
4 # 16, 2 # 12



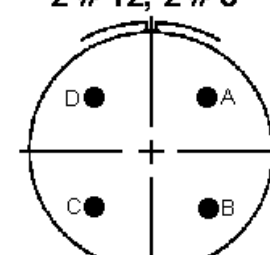
22-6
1 # 16, 2 # 8



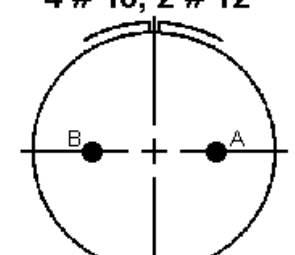
22-7
1 # 0



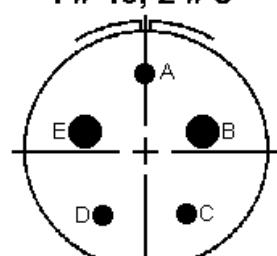
22-9
3 # 12



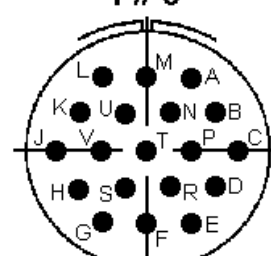
22-10
4 # 16



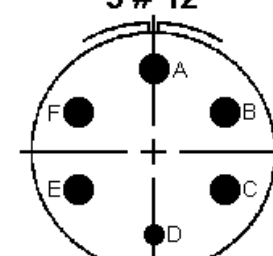
22-11
2 # 16



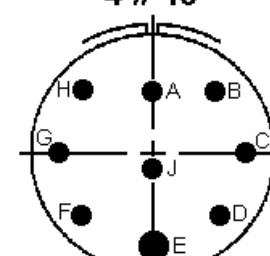
22-12
3 # 16, 2 # 8



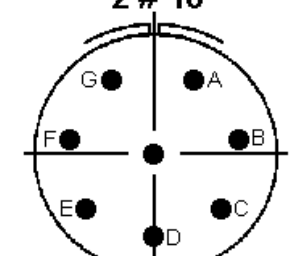
22-14
19 # 16



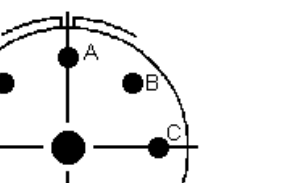
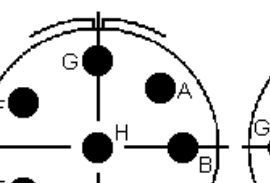
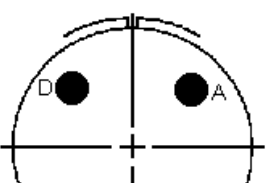
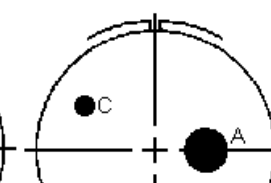
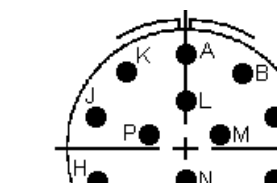
22-15
1 # 16, 5 # 12



22-17
8 # 16, 1 # 12

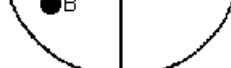


22-18
8 # 16

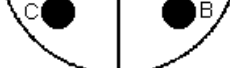




22-19
(14 #16 size contacts)



22-21
(2 #16 and 1 #0 size contacts)



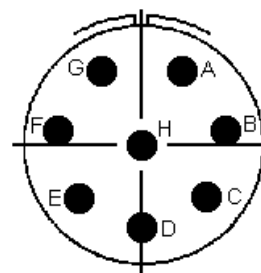
22-22
(4 #8 size contacts)



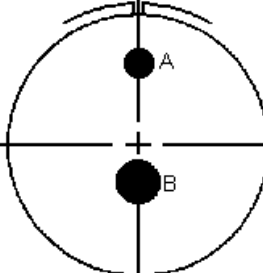
22-23
(8 #12 size contacts)



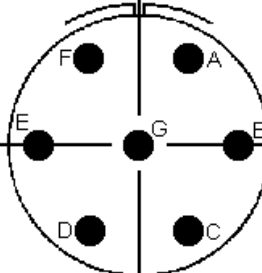
22-27
(1 #8 and 8 #16 size contacts)



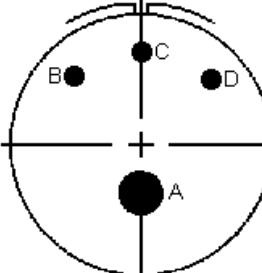
22-36
(8 #12 size contacts)



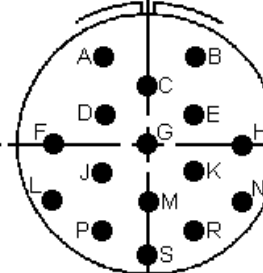
24-1
(1 #12 and 1 #0 size contacts)



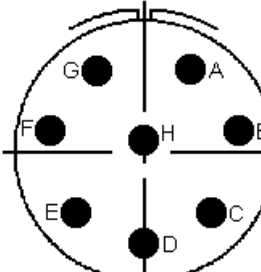
24-2
(7 #12 size contacts)



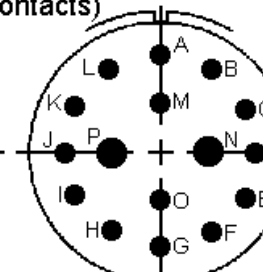
24-4
(3 #16 and 1 #0 size contacts)



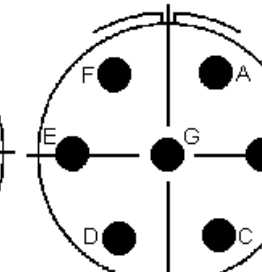
24-5
(16 #16 size contacts)



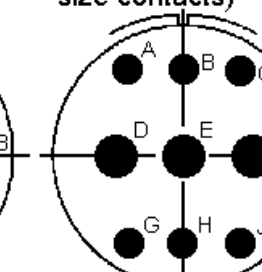
24-6
(8 #12 size contacts)



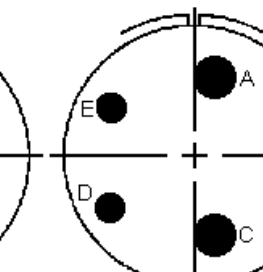
24-7
(14 #16 and 2 #12 size contacts)



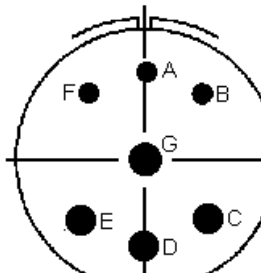
24-10
(7 #8 size contacts)



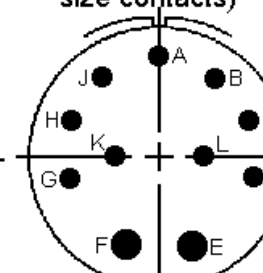
24-11
(6 #12 and 3 #8 size contacts)



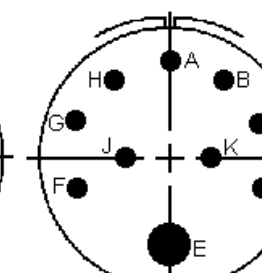
24-12
(3 #12 and 2 #4 size contacts)



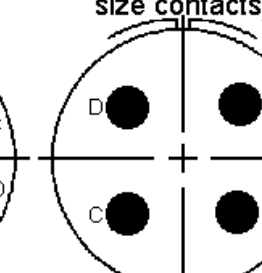
24-16
(3 #16, 1 #8 and 3 #12 size contacts)



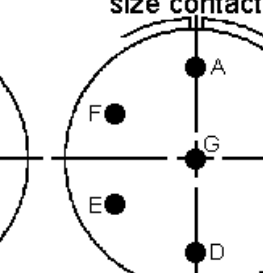
24-20
(9 #16 and 2 #12 size contacts)



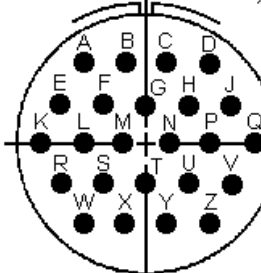
24-21
(9 #16 and 1 #8 size contacts)



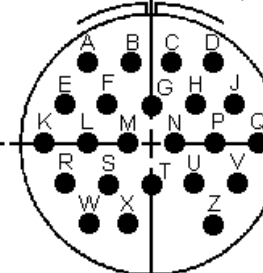
24-22
(4 #8 size contacts)



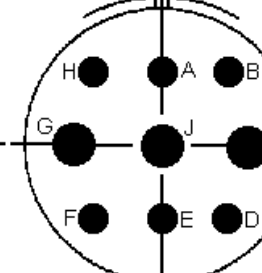
24-27
(7 #16 size contacts)



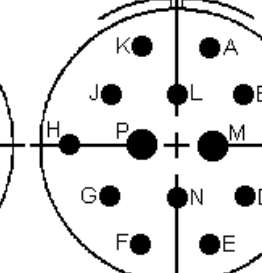
24-28
(24 #16 size contacts)



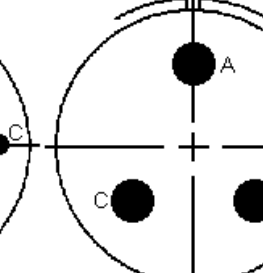
24-80
(23 #16 size contacts)



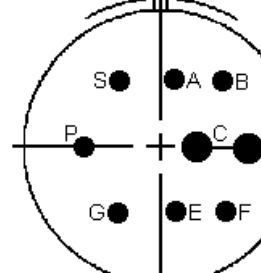
28-1
(6 #12 and 3 #8 size contacts)



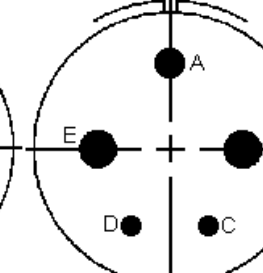
28-2
(12 #16 and 2 #12 size contacts)



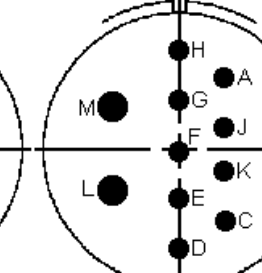
28-3
(3 #8 size contacts)



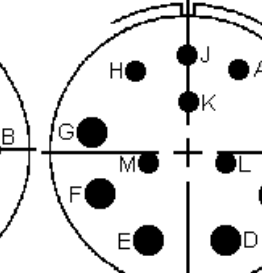
28-4
(6 #12 size contacts)



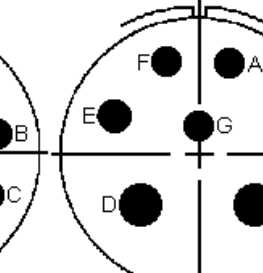
28-5
(3 #16 size contacts)



28-6
(10 #16 size contacts)

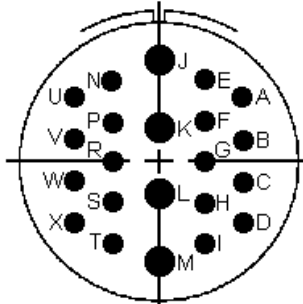


28-7
(10 #16 size contacts)

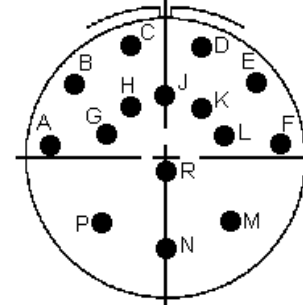


28-8
(6 #12 size contacts)

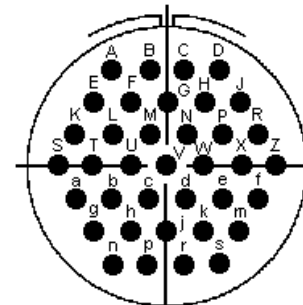
28-4
(7 #16 and 2 #12
size contacts)



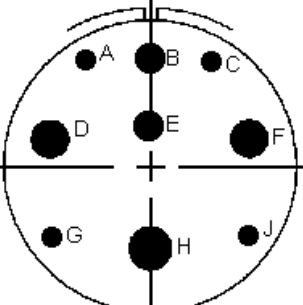
28-11
(18 #16 and 4 #12
size contacts)



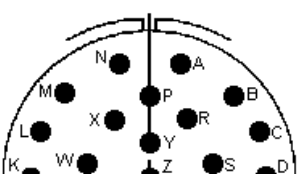
28-17
(15 #16 size
contacts)



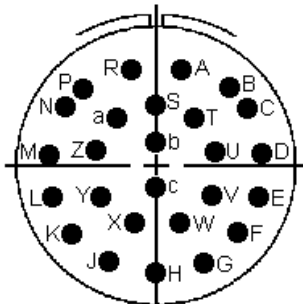
28-21
(37 #16 size
contacts)



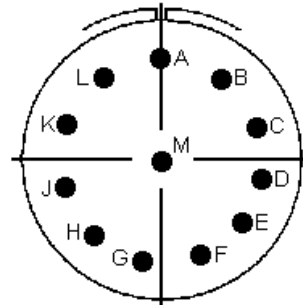
32-3
(4 #16, 2 #12, 2 #4
and 1 #0 size contacts)



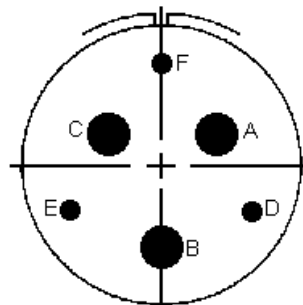
28-5
(2 #16, 1 #12 and
2 #4 size contacts)



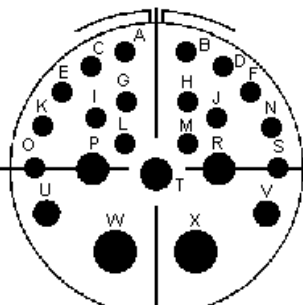
28-12
(26 #16 size
contacts)



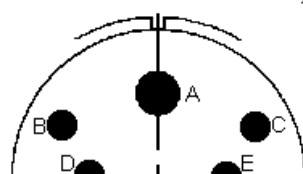
28-18
(12 #16 size
contacts)



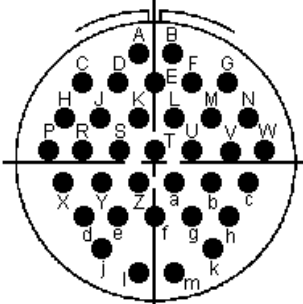
28-22
(3 #16 and 3 #4
size contacts)



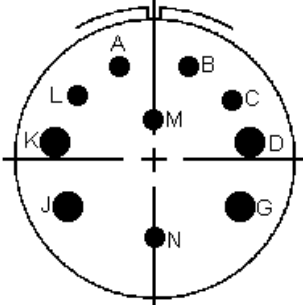
32-6
(16 #16, 2 #12, 3 #8
and 2 #4 size contacts)



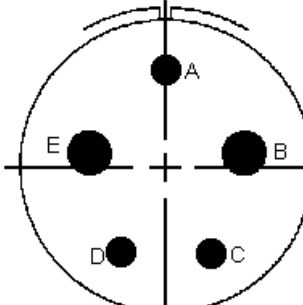
28-8
(2 #12 and 10 #16
size contacts)



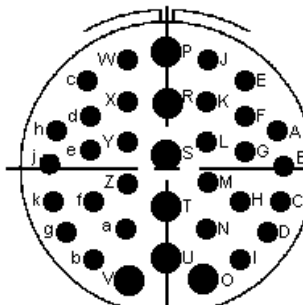
28-15
(35 #16 size
contacts)



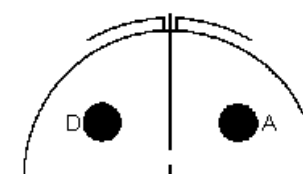
28-19
(6 #16 and 4 #12
size contacts)



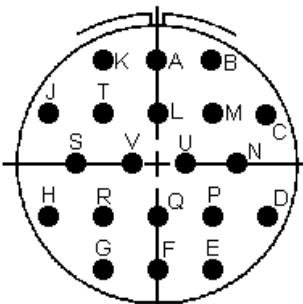
32-1
(3 #12 and 2 #0
size contacts)



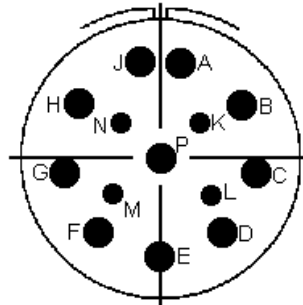
32-7
(28 #16 and 7 #12
size contacts)



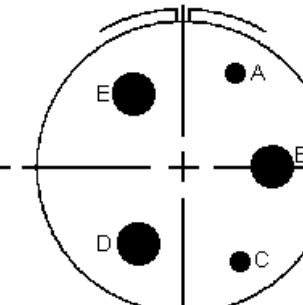
28-9
(6 #16 and 6 #12
size contacts)



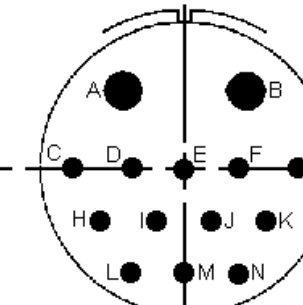
28-16
(20 #16 size
contacts)



28-20
(4 #16 and 10 #12
size contacts)



32-2
(2 #16 and 3 #4
size contacts)



32-9
(12 #16 and 2 #4
size contacts)



28-10
(3 #12, 2 #8 and
2 #4 size contacts)

864	120
863	20
115	20
216	20
365	20
486	20
615	17

U	0.02
U	-0.026
120	598
120	585
120	564
20	863
20	115
20	216
20	365
20	486
17	615

U	0.02
U	-0.026
120	598
120	585
120	564
20	863
20	115
20	216
20	365
20	486
17	615

U	0.02
U	-0.026
120	598
120	585
120	564
20	863
20	115
20	216
20	365
20	486
17	615

PANEL CUT



PANEL CUT

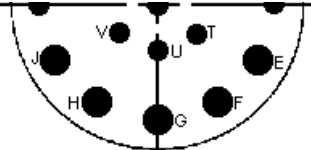


PANEL CUT

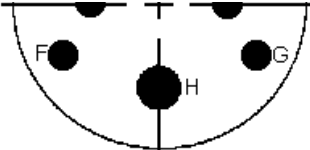


PANEL CUT





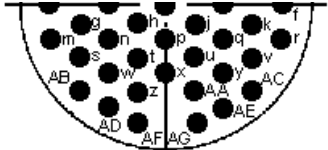
32-13
(18 #16 and 5 #12 size contacts)



32-15
(6 #12 and 2 #0 size contacts)

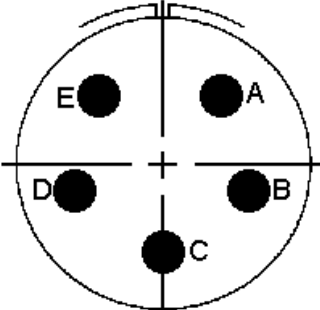


32-17
(4 #4 size contacts)

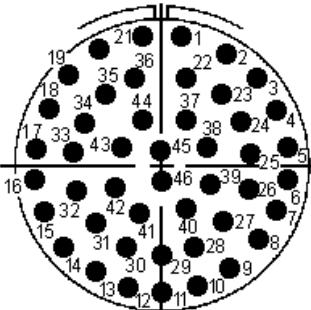


32-22
(54 #16 size contacts)

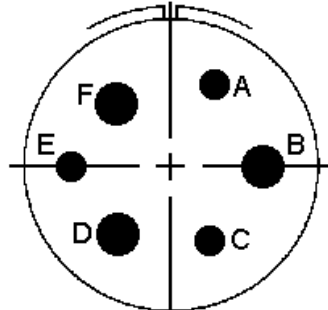
U	U
005	-005
598	120
15	120
14	120
19	-20
15	-20
36	-20
65	-20
86	-20
15	-57



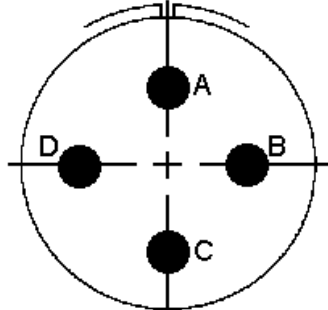
32-63
(5 #4 size contacts)



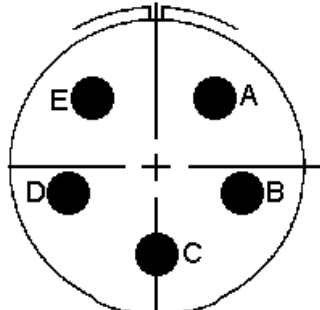
32-73
(46 #16 size contacts)



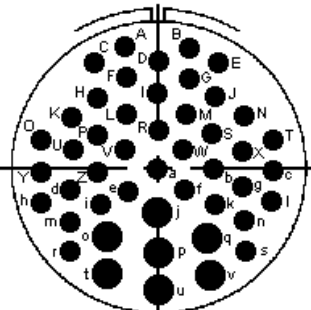
36-3
(3 #12 and 3 #0 size contacts)



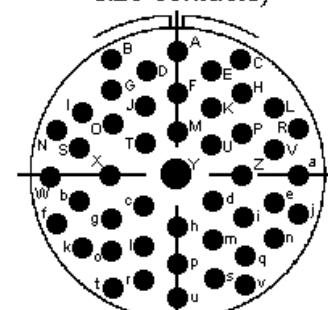
36-5
(4 #0 size contacts)



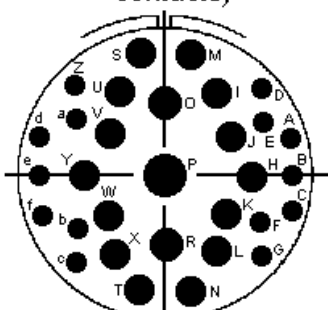
36-6
(4 #4 and 2 #0 size contacts)



36-7
(40 #16 and 7 #12 size contacts)

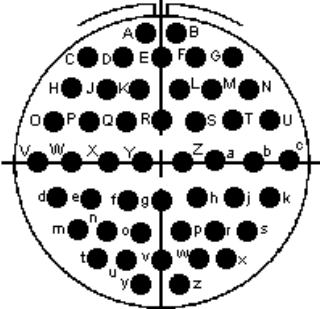


36-8
(46 #16 and 1 #12 size contacts)

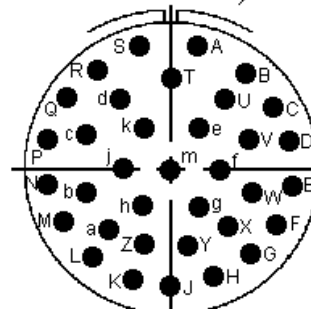


36-9
(14 #16, 14 #12, 2 #8 and 1 #4 size contacts)

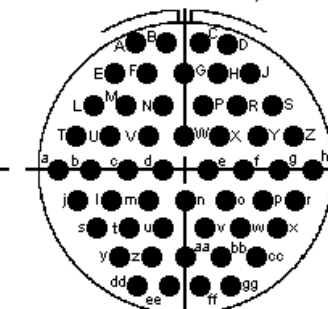
U	U
36	-005
18	120
15	120
14	120
19	-20
15	-20
36	-20
65	-20
86	-20
15	-57



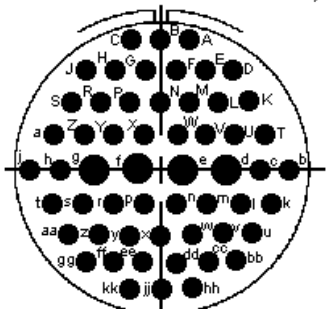
36-10
(48 #16 size contacts)



36-15
(35 #16 size contacts)

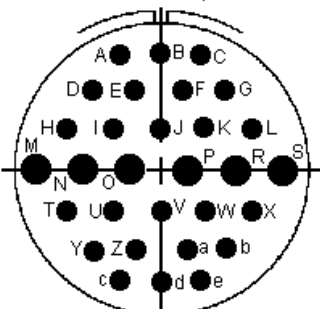


36-52
(52 #16 size contacts)

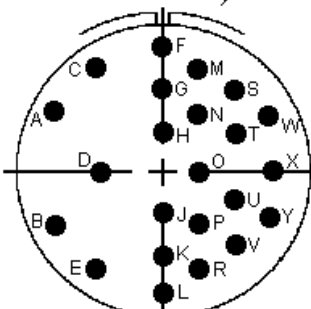


36-66
(52 #16 and 4 #12 size contacts)

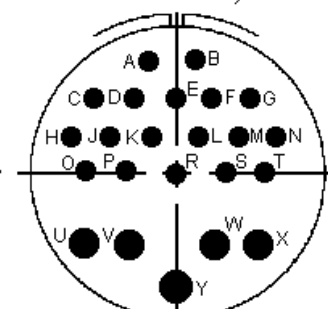
U	U
36	-005
18	120
15	120
14	120
19	-20
15	-20
36	-20
65	-20
86	-20
15	-57



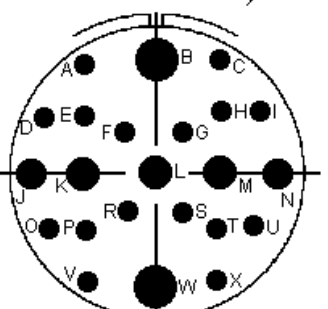
40-1
(24 #16 and 6 #12 size contacts)



40-2
(23 #16 size contacts)



40-3
(18 #16, 4 #12 and 4 #4 size contacts)



40-4
(16 #16, 2 #12, 3 #8 and 2 #4 size contacts)

U	U
36	-005
18	120
15	120
14	120
19	-20
15	-20
36	-20

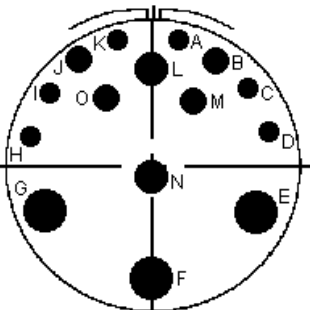
size contacts)

contacts)

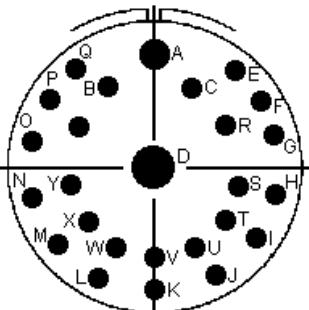
1 #4 size contacts)

2 #4 size contacts)

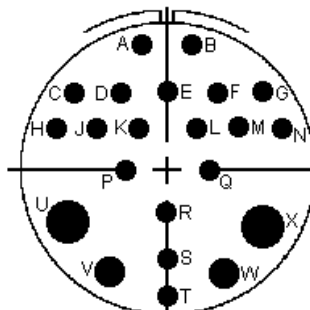
65	20
85	20
15	67



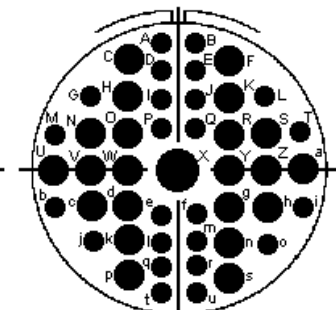
40-5
(5 #12, 4 #8 and 3 #0 size contacts)



40-6
(24 #16, 1 #12 and 1 #0 size contacts)

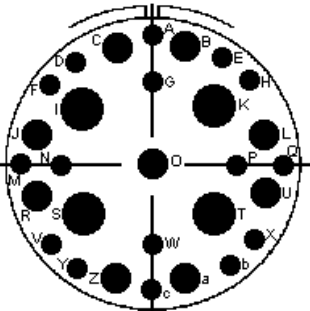


40-7
(2 #12, 2 #0 and 18 #16 size contacts)

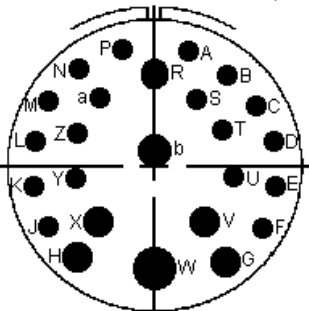


40-9
(24 #16, 22 #12 and 1 #8 size contacts)

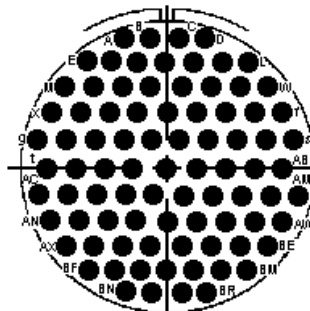
	U
05	005
18	120
15	120
15	120
19	20
15	20
16	20
65	20
85	20
15	67



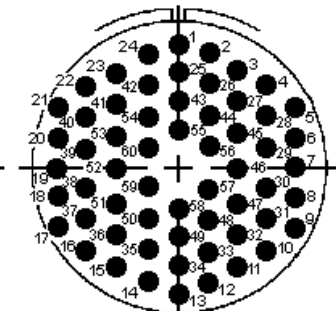
40-10
(16 #16, 9 #8 and 4 #4 size contacts)



40-11
(18 #16, 4 #12, 1 #8, 1 #4 and 1 #0 size contacts)



40-56
(85 #16 size contacts)



40-62
(60 #16 size contacts)

For pricing and availability, please fill out our RFQ form



If you need any other information, please E-Mail aecs@aecsinc.com



phone (703) 425-3815 fax (703) 425-3814

We look forward to hearing from you!



SHELL SIZE	A MAX	B ±.005	C ±.035	D ±.035	E MAX	F ±.015	G ±.010	H MAX	J
8	828	554	568	120	1275	446	652	687	1/2-20 UNF
10	954	719	585	120	1275	446	652	687	3/8-24 UNF
12	1047	812	585	120	1275	446	652	687	1/2-20 UNF
14	1131	906	585	120	1275	446	652	687	3/8-24 UNF
16	1234	986	1115	20	1215	486	687	687	1-20 UNEF
18	1338	1067	1236	20	1215	486	687	687	1 1/16-18 UNF
20	1443	1150	1365	20	1275	527	684	712	1 3/16-18 UNF
22	1578	1250	1485	20	1275	527	684	712	1 5/16-18 UNF

SHELL SIZE	A MAX	B ±.005	C ±.035	D ±.035
8	828	554	568	120
10	954	719	585	120
12	1047	812	584	120
14	1131	906	583	20
16	1234	986	1115	20
18	1338	1067	1236	20
20	1443	1150	1365	20
22	1578	1250	1486	20



Allen Electric Connector Sales, inc.

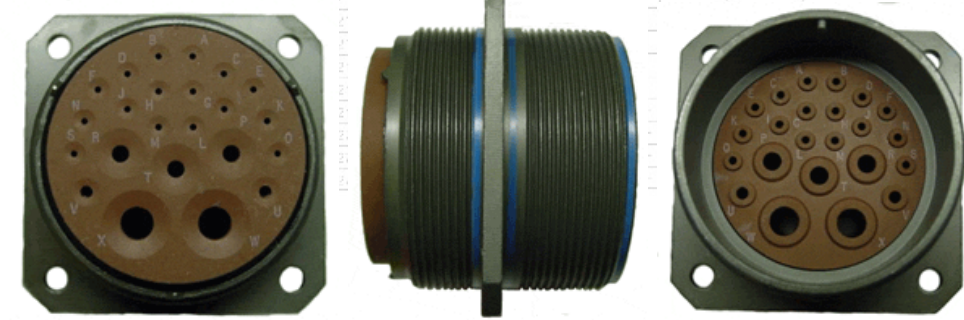


TM

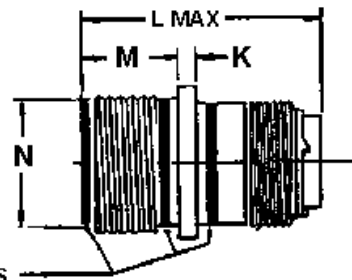
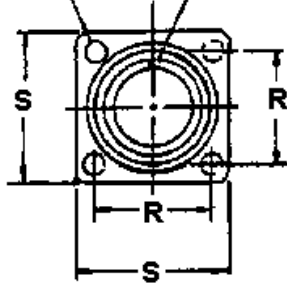
MS3450 WALL MOUNT RECEPTACLE

SHELL	A	B	C	D	E	F	G	H	J
5177	MAX	±.005	±.002	±.002	MA				
10	.828	.564	.568	.120					
12	1.047	.612	.564	.120					
14	1.161	.906	.969	.120					
16	1.234	.968	1.115	.120					
18	1.328	1.062	1.236	.120					
20	1.418	1.150	1.365	.120					
22	1.528	1.250	1.486	.120					
24	1.708	1.375	1.615	.147					

SHELL	A	B	C	D
5177	MAX	±.005	±.002	±.002
10	.828	.564	.568	.120
12	1.047	.612	.564	.120
14	1.161	.906	.969	.120
16	1.234	.968	1.115	.120
18	1.328	1.062	1.236	.120
20	1.418	1.150	1.365	.120
22	1.528	1.250	1.486	.120
24	1.708	1.375	1.615	.147



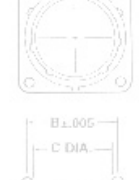
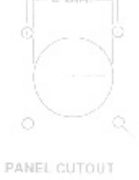
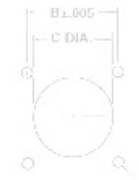
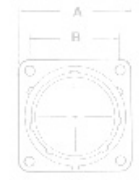
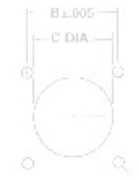
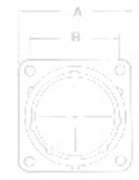
T DIA 4 HOLES
POLARIZING KEY



BLUE STRIPE 3 PLACES

FOR PANEL CUTOUT SEE MS3452

SIZE	K ±.015	L MAX		M +.031 -.000	N +.000 -.062	R T, P CL-CL	S ±.031	T +.010 -.005	
		SIZE 12 & 16 CONTACTS	SIZE 0, 4 & 8 CONTACTS					CLASS L U, W	CLASS K
8S	.083	2.031	-	.562	.532	.594	.875	.120	.150
10S	.083	2.051	-	.562	.656	.719	1.000	.120	.150
10SL	.083	2.051	-	.562	.656	.719	1.000	.120	.150
12S	.083	2.031	-	.562	.782	.812	1.094	.120	.150
12	.083	2.125	-	.750	.782	.812	1.094	.120	.150
14S	.083	2.031	-	.562	.906	.906	1.188	.120	.150
14	.083	2.125	-	.750	.906	.906	1.188	.120	.150
16S	.083	2.031	-	.562	1.032	.969	1.281	.120	.150
16	.083	2.125	2.500	.750	1.032	.969	1.281	.120	.150
18	.125	2.125	2.500	.750	1.158	1.062	1.375	.120	.150
20	.125	2.125	2.500	.750	1.282	1.156	1.500	.120	.177
22	.125	2.125	2.500	.750	1.406	1.250	1.625	.120	.177
24	.125	2.125	2.500	.812	1.532	1.375	1.750	.147	.177
28	.125	2.125	2.500	.812	1.782	1.562	2.000	.147	.177
32	.125	2.125	2.500	.875	2.032	1.750	2.250	.173	.209
36	.125	2.125	2.500	.875	2.282	1.938	2.500	.173	.209



J THREAD

K PANEL

J THREAD

L P
190

AD

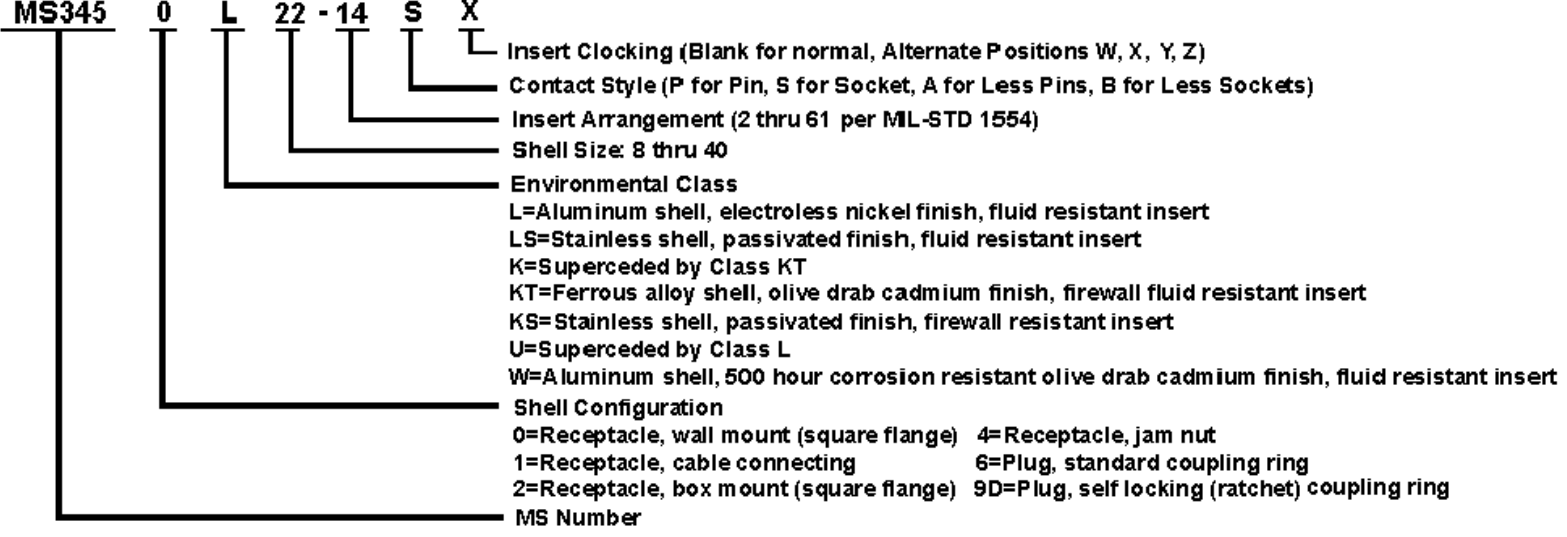
AD

A	B	C	D
MAX	±.005	±.002	±.002
.828	.564	.568	.120
.964	.719	.565	.120
1.047	.612	.564	.120
1.161	.906	.969	.120
1.234	.968	1.115	.120
1.328	1.062	1.236	.120
1.418	1.150	1.365	.120
1.528	1.250	1.486	.120
1.708	1.375	1.615	.147

40	2.125	2.125	2.500	.875	2.532	2.188	2.750	.173	.209
----	-------	-------	-------	------	-------	-------	-------	------	------

[MIL-DTL-5015 Insert Contacts, Service Rating & Clocking Positions](#)
[MIL-DTL-5015 Insert Arrangements](#)

MILITARY PART NUMBERING SYSTEM



For pricing and availability, please fill out our RFQ form



If you need any other information, please [E-Mail aecs@aecsinc.com](mailto:aecs@aecsinc.com)

phone (703) 425-3815 fax (703) 425-3814

We look forward to hearing from you!



A Woman Owned Small Business, CAGE Code 07BG6

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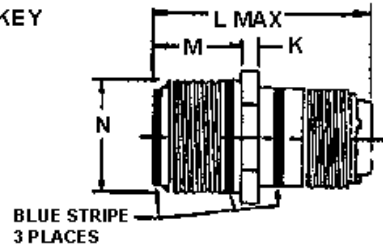
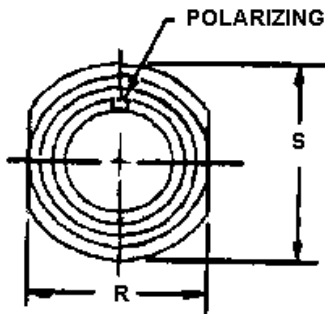
Allen Electric Connector Sales, Inc.



MS3451 CABLE CONNECTING RECEPTACLE

SHELL SIZE	A MAX	B ±.005	C ±.005	D ±.005	E MAX	F MAX	G MAX	H MAX	J THREAD
8	828	554	568	120					
10	954	719	585	120					
12	1047	812	564	120					
14	1141	906	563	120					
16	1234	988	1115	120					
18	1328	1082	1236	120					
20	1423	1150	1365	120					
22	1518	1250	1488	120					
24	1708	1375	1615	120					

SHELL SIZE	A MAX	B ±.005	C ±.005	D ±.005
8	828	554	568	120
10	954	719	585	120
12	1047	812	564	120
14	1141	906	563	120
16	1234	988	1115	120
18	1328	1082	1236	120
20	1423	1150	1365	120
22	1518	1250	1488	120
24	1708	1375	1615	120



SHELL SIZE	A MAX	B ±.005	C ±.005	D ±.005	E MAX	F MAX	G MAX	H MAX	J THREAD
8	828	554	568	120					
10	954	719	585	120					
12	1047	812	564	120					
14	1141	906	563	120					
16	1234	988	1115	120					
18	1328	1082	1236	120					
20	1423	1150	1365	120					
22	1518	1250	1488	120					
24	1708	1375	1615	120					

SHELL SIZE	A MAX	B ±.005	C ±.005	D ±.005
8	828	554	568	120
10	954	719	585	120
12	1047	812	564	120
14	1141	906	563	120
16	1234	988	1115	120
18	1328	1082	1236	120
20	1423	1150	1365	120
22	1518	1250	1488	120
24	1708	1375	1615	120

SIZE	K ±.015	L MAX		M ±.010	N MAX	R	S ±.031
		SIZE 12 & 16 CONTACTS	SIZE 0, 4 & 8 CONTACTS				
8S	.083	2.031	-	.562	.532	.504/.496	.729
10S/10SL	.083	2.031	-	.562	.656	.629/.621	.854
12S	.083	2.031	-	.562	.782	.754/.746	.974
12	.083	2.125	-	.750	.782	.754/.746	.974
14S	.083	2.031	-	.562	.906	.879/.871	1.099
14	.083	2.125	-	.750	.906	.879/.871	1.099
16S	.083	2.031	-	.562	1.032	1.005/.996	1.244
16	.083	2.125	2.500	.750	1.032	1.005/.996	1.244
18	.125	2.125	2.500	.750	1.156	1.131/1.121	1.349
20	.125	2.125	2.500	.750	1.282	1.256/1.246	1.474
22	.125	2.125	2.500	.750	1.406	1.381/1.371	1.599
24	.125	2.125	2.500	.812	1.532	1.506/1.496	1.715
28	.125	2.125	2.500	.812	1.782	1.756/1.746	1.974
32	.125	2.125	2.500	.875	2.032	2.007/1.996	2.224
36	.125	2.125	2.500	.875	2.282	2.257/2.248	2.474
40	.125	2.125	2.500	.875	2.532	2.511/2.496	2.724

MILITARY PART NUMBERING SYSTEM

MS345

1

L

18

-11

P

Y

Insert Clocking (Blank for normal, Alternate Positions W, X, Y, Z)

Contact Style (P for Pin, S for Socket, A for Less Pins, B for Less Sockets)

Insert Arrangement (2 thru 61 per MIL-STD 1554)

Shell Size: 8 thru 40

Environmental Class

L=Aluminum shell, electroless nickel finish, fluid resistant insert

LS=Stainless shell, passivated finish, fluid resistant insert

K=Superceded by Class KT

KT=Ferrous alloy shell, olive drab cadmium finish, firewall fluid resistant insert

KS=Stainless shell, passivated finish, firewall resistant insert

U=Superceded by Class L

W=Aluminum shell, 500 hour corrosion resistant olive drab cadmium finish, fluid resistant insert

Shell Configuration

0=Receptacle, wall mount (square flange) 4=Receptacle, jam nut

1=Receptacle, cable connecting

6=Plug, standard coupling ring

2=Receptacle, box mount (square flange)

9D=Plug, self locking (ratchet) coupling ring

MS Number



PANEL CUTOUT

D DIA
4 HOLES

For pricing and availability, please fill out our RFQ form



PANEL CUTOUT

D DIA
4 HOLES



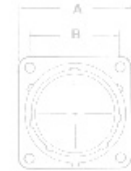
R	828	554	568	120	1.215	446	062	087	3/4-20 UNF
10	954	719	585	120	1.215	446	062	087	3/4-20 UNEF
12	1.047	812	564	120	1.215	446	062	087	3/4-20 UNE-
14	1.141	906	568	120	1.215	446	062	087	3/4-20 UNE-
16	1.234	956	568	120	1.215	446	062	087	3/4-20 UNE-
18	1.328	1.049	1.236	120	1.215	446	062	087	1.1-16-18 UNF
20	1.423	1.150	1.365	120	1.215	446	062	087	1.3-16-18 UNEF
22	1.518	1.250	1.486	120	1.215	446	062	087	1.5-16-18 UNEF
24	1.708	1.375	1.615	127	1.215	464	094	212	1.7-16-18 UNF

R	828	554	568	120
10	954	719	585	120
12	1.047	812	564	120
14	1.141	906	568	120
16	1.234	956	568	120
18	1.328	1.049	1.236	120
20	1.423	1.150	1.365	120
22	1.518	1.250	1.486	120
24	1.708	1.375	1.615	127

If you need any other information, please E-Mail aecs@aecsinc.com

phone (703) 425-3815 fax (703) 425-3814

We look forward to hearing from you!

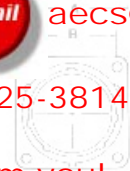


PANEL CUTOUT

B ±.005
C DIA
MAX PANEL

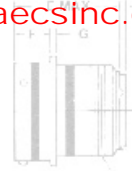


H
J THREAD
MAX PANEL



PANEL CUTOUT

B ±.005
C DIA
MAX PANEL



H
J THREAD
MAX PANEL



SHELL SIZE	A MAX	B ±.005	C ±.005	D ±.005
R	828	554	568	120
10	954	719	585	120
12	1.047	812	564	120
14	1.141	906	568	120
16	1.234	956	568	120
18	1.328	1.049	1.236	120
20	1.423	1.150	1.365	120
22	1.518	1.250	1.486	120
24	1.708	1.375	1.615	127

SHELL SIZE	A MAX	B ±.005	C ±.005	D ±.005
R	828	554	568	120
10	954	719	585	120
12	1.047	812	564	120
14	1.141	906	568	120
16	1.234	956	568	120
18	1.328	1.049	1.236	120
20	1.423	1.150	1.365	120
22	1.518	1.250	1.486	120
24	1.708	1.375	1.615	127

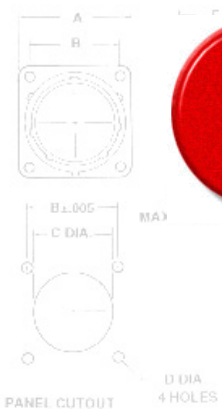
A Woman Owned Small Business, CAGE Code 07BG6



Allen Electric Connector Sales, inc.



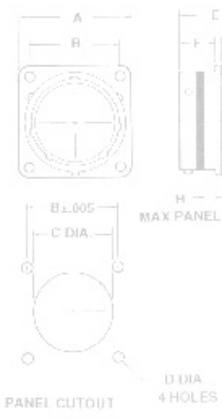
MS3452 BOX MOUNT RECEPTACLE



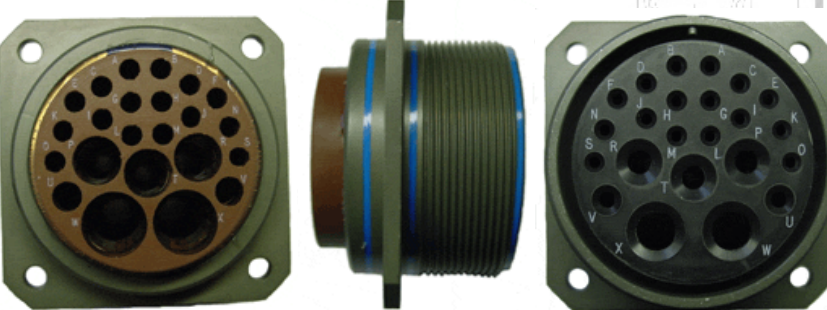
SHELL SIZE	A MAX	B ±.005	C ±.003	D ±.005	U
8	.620	.554	.568	.120	.125
10	.954	.719	.585	.120	.125
12	1.047	.812	.564	.120	.125
14	1.141	.906	.563	.120	.125
16	1.234	.980	1.115	.120	.125
18	1.328	1.002	1.236	.120	.125
20	1.418	1.150	1.365	.120	.125
22	1.578	1.750	1.485	.120	.125
24	1.708	1.375	1.615	.120	.125



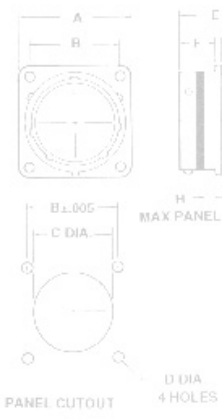
SHELL SIZE	A MAX	B ±.005	C ±.003	D ±.005	U
8	.620	.554	.568	.120	.125
10	.954	.719	.585	.120	.125
12	1.047	.812	.564	.120	.125
14	1.141	.906	.563	.120	.125
16	1.234	.980	1.115	.120	.125
18	1.328	1.002	1.236	.120	.125
20	1.418	1.150	1.365	.120	.125
22	1.578	1.750	1.485	.120	.125
24	1.708	1.375	1.615	.120	.125



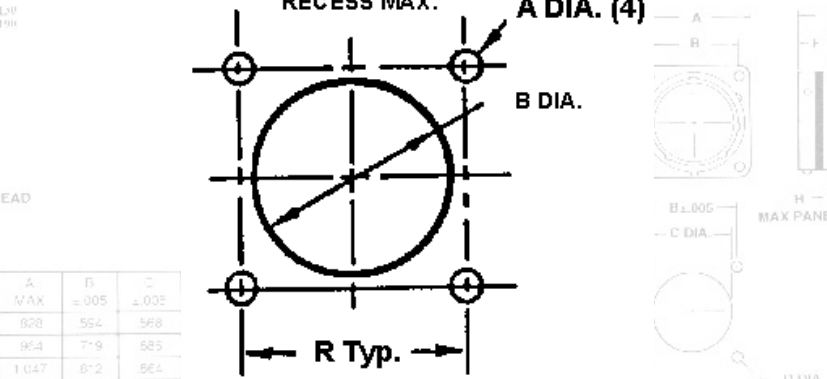
SHELL SIZE	A MAX	B ±.005	C ±.003	D ±.005	U
8	.620	.554	.568	.120	.125
10	.954	.719	.585	.120	.125
12	1.047	.812	.564	.120	.125
14	1.141	.906	.563	.120	.125
16	1.234	.980	1.115	.120	.125
18	1.328	1.002	1.236	.120	.125
20	1.418	1.150	1.365	.120	.125
22	1.578	1.750	1.485	.120	.125
24	1.708	1.375	1.615	.120	.125



SHELL SIZE	A MAX	B ±.005	C ±.003	D ±.005	U
8	.620	.554	.568	.120	.125
10	.954	.719	.585	.120	.125
12	1.047	.812	.564	.120	.125
14	1.141	.906	.563	.120	.125
16	1.234	.980	1.115	.120	.125
18	1.328	1.002	1.236	.120	.125
20	1.418	1.150	1.365	.120	.125
22	1.578	1.750	1.485	.120	.125
24	1.708	1.375	1.615	.120	.125



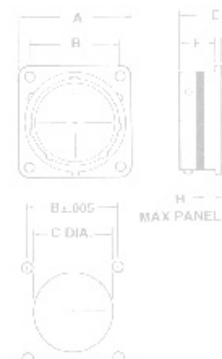
SHELL SIZE	A MAX	B ±.005	C ±.003	D ±.005	U
8	.620	.554	.568	.120	.125
10	.954	.719	.585	.120	.125
12	1.047	.812	.564	.120	.125
14	1.141	.906	.563	.120	.125
16	1.234	.980	1.115	.120	.125
18	1.328	1.002	1.236	.120	.125
20	1.418	1.150	1.365	.120	.125
22	1.578	1.750	1.485	.120	.125
24	1.708	1.375	1.615	.120	.125



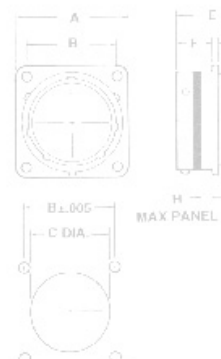
NOTE: .015 RECESS MAX.

MS3452 PANEL CUTOUT

SHELL SIZE	A DIA. MAX.	B DIA. ±.010
8S	.130	.562
10S, 10SL	.130	.688
12, 12S	.103	.812
14, 14S	.130	.938
16, 16S	.130	1.062
18	.130	1.188
20	.130	1.312



SHELL SIZE	A MAX	B ±.005	C ±.003	D ±.005	U
8	.620	.554	.568	.120	.125
10	.954	.719	.585	.120	.125



SHELL SIZE	A MAX	B ±.005	C ±.003	D ±.005	U
8	.620	.554	.568	.120	.125
10	.954	.719	.585	.120	.125

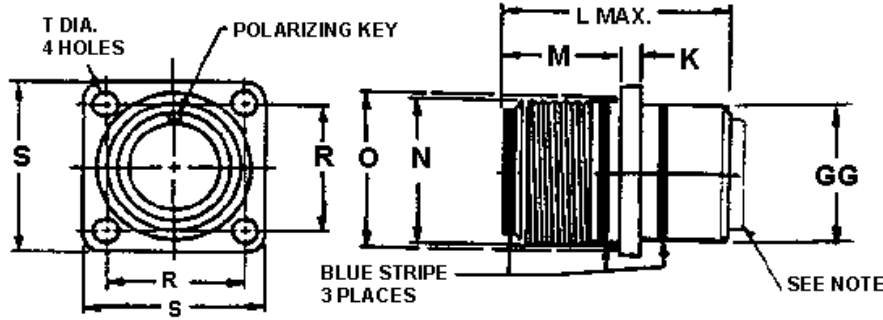
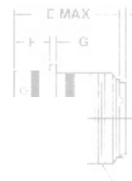
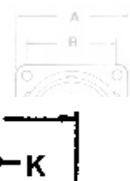
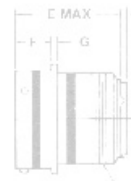
PANEL CUTOUT D DIA 4 HOLES

12	1.147	.906	.969	.120
16	1.234	.986	1.115	.120
18	1.328	1.067	1.236	.120
20	1.423	1.150	1.365	.120
22	1.528	1.250	1.486	.120
24	1.708	1.375	1.615	.147

22	.130	1.438
24	.157	1.562
28	.157	1.812
32	.183	2.062
36	.183	2.312
40	.183	2.562

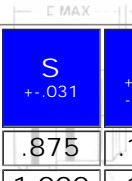
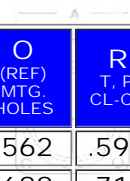
PANEL CUTOUT D DIA 4 HOLES

12	1.047	.812	.864	.120
16	1.234	.986	1.115	.120
18	1.328	1.067	1.236	.120
20	1.423	1.150	1.365	.120
22	1.528	1.250	1.486	.120
24	1.708	1.375	1.615	.147



SHELL SIZE	A MAX	B = .005	C = .005	U = .005
8	.625	.564	.568	.120
10	.654	.719	.585	.120
12	1.047	.812	.864	.120
14	1.141	.906	.969	.120
16	1.234	.986	1.115	.120
18	1.328	1.067	1.236	.120
20	1.423	1.150	1.365	.120
22	1.528	1.250	1.486	.120
24	1.708	1.375	1.615	.147

NOTE: Per MS3452 REV. D, 2-15-95, Rear Grommet, "The insulation material shall be above, flush with or no more than .015" below the metal shell and all contacts shall be recessed below the insulation material."

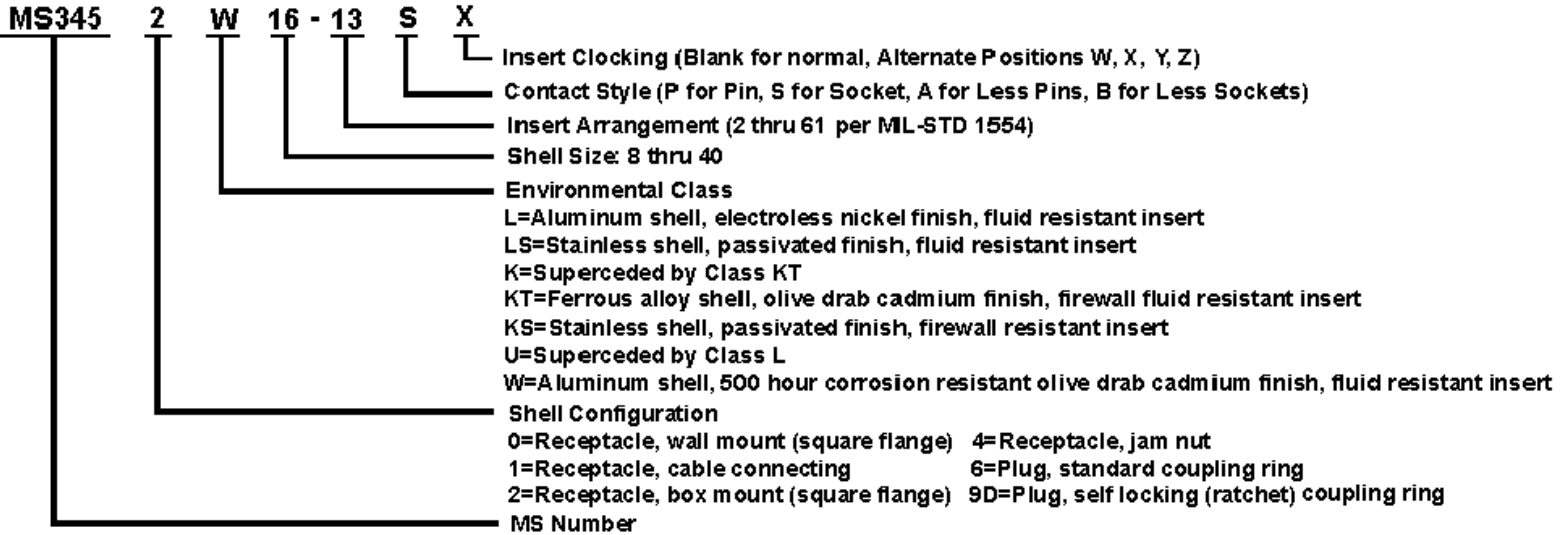


SIZE	GG +.016	K +.015	L MAX		M +.031 -.000	N +.000 -.062	O (REF) MTG. HOLES	R T, P CL-CL	S +.031	T +.010 -.005
			SIZE 12 & 16 CONTACTS	SIZE 0, 4 & 8 CONTACTS						
8S	.500	.083	1.662	-	.562	.532	.562	.594	.875	.120
10S	.625	.083	1.662	-	.562	.656	.688	.719	1.000	.120
10SL	.625	.083	1.662	-	.562	.656	.688	.719	1.000	.120
12S	.750	.083	1.662	-	.562	.782	.812	.812	1.094	.120
12	.750	.083	1.662	-	.750	.782	.812	.812	1.094	.120
14S	.875	.083	1.662	-	.562	.906	.938	.906	1.188	.120
14	.875	.083	1.662	-	.750	.906	.938	.906	1.188	.120
16S	1.000	.083	1.662	-	.562	1.032	1.062	.969	1.281	.120
16	1.000	.083	1.662	1.937	.750	1.032	1.062	.969	1.281	.120
18	1.062	.125	1.662	1.937	.750	1.156	1.188	1.062	1.375	.120
20	1.187	.125	1.662	1.937	.750	1.282	1.312	1.156	1.500	.120
22	1.312	.125	1.662	1.937	.750	1.406	1.438	1.250	1.625	.120
24	1.437	.125	1.662	1.937	.812	1.532	1.562	1.375	1.750	.147
28	1.750	.125	1.662	1.937	.812	1.782	1.812	1.562	2.000	.147
32	2.000	.125	1.662	1.937	.875	2.032	2.062	1.750	2.250	.173
36	2.250	.125	1.662	1.937	.875	2.282	2.312	1.938	2.500	.173
40	2.500	.125	1.662	1.937	.875	2.532	2.562	2.188	2.750	.173

[MIL-DTL-5015 Insert Contacts, Service Rating & Clocking Positions](#)
[MIL-DTL-5015 Insert Arrangements](#)

SHELL SIZE	A MAX	B = .005	C = .005	U = .005
8	.625	.564	.568	.120
10	.654	.719	.585	.120
12	1.047	.812	.864	.120
14	1.141	.906	.969	.120
16	1.234	.986	1.115	.120
18	1.328	1.067	1.236	.120
20	1.423	1.150	1.365	.120
22	1.528	1.250	1.486	.120
24	1.708	1.375	1.615	.147

MILITARY PART NUMBERING SYSTEM



22	1.578	1.750	1.485	.20	1.275	1.27	.094	.212	1.515-18 UNEF
24	1.708	1.375	1.615	.247	1.275	1.04	.094	.212	1.716-18 UNEF

22	1.578	1.750	1.485	.20					
24	1.708	1.375	1.615	.247					

For pricing and availability, please fill out our RFQ form



If you need any other information, please **E-Mail** aecs@aecsinc.com

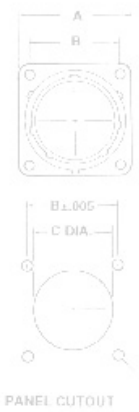


phone (703) 425-3815 fax (703) 425-3814

We look forward to hearing from you!



SHELL SIZ*	A MAX	B ±.005	C ±.005	D ±.005	E MAX	F -0.01	G +0.10	H MAX	J TH-RED 2A
8	.828	.554	.564	.564	.564	.564	.564	.564	3/4-20 UNEF
10	.954	.719	.719	.719	.719	.719	.719	.719	3/4-20 UNEF
12	1.047	.812	.812	.812	.812	.812	.812	.812	3/4-20 UNEF
14	1.141	.906	.906	.906	.906	.906	.906	.906	3/4-20 UNEF
16	1.234	.999	1.115	.120	1.215	.440	.062	.087	3/4-20 UNEF
18	1.328	1.092	1.235	.120					
20	1.413	1.150	1.365	.120					
22	1.578	1.750	1.485	.120					
24	1.708	1.375	1.615	.247					



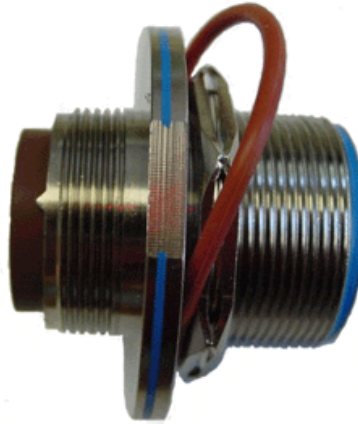
A Woman Owned Small Business, CAGE Code 07BG6



Allen Electric Connector Sales, inc.



MS3454 SINGLE HOLE MOUNT RECEPTACLE

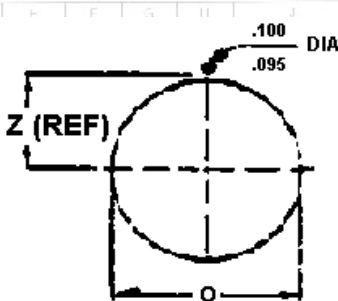


SHELL SIZE	A MAX	B ±.005	C ±.003	U ±.006
8	.828	.554	.568	.120
10	.954	.719	.585	.120
12	1.047	.812	.564	.120
14	1.141	.906	.963	.120
16	1.234	1.060	1.115	.120
18	1.328	1.092	1.236	.120
20	1.418	1.150	1.265	.120
22	1.528	1.250	1.486	.120
24	1.708	1.375	1.615	.127

SHELL SIZE	A MAX	B ±.005	C ±.003	U ±.006
8	.828	.554	.568	.120
10	.954	.719	.585	.120
12	1.047	.812	.564	.120
14	1.141	.906	.963	.120
16	1.234	1.060	1.115	.120
18	1.328	1.092	1.236	.120
20	1.418	1.150	1.265	.120
22	1.528	1.250	1.486	.120
24	1.708	1.375	1.615	.127

SHELL SIZE	A MAX	B ±.005	C ±.003	U ±.006
8	.828	.554	.568	.120
10	.954	.719	.585	.120
12	1.047	.812	.564	.120
14	1.141	.906	.963	.120
16	1.234	1.060	1.115	.120
18	1.328	1.092	1.236	.120
20	1.418	1.150	1.265	.120
22	1.528	1.250	1.486	.120
24	1.708	1.375	1.615	.127

SHELL SIZE	A MAX	B ±.005	C ±.003	U ±.006
8	.828	.554	.568	.120
10	.954	.719	.585	.120
12	1.047	.812	.564	.120
14	1.141	.906	.963	.120
16	1.234	1.060	1.115	.120
18	1.328	1.092	1.236	.120
20	1.418	1.150	1.265	.120
22	1.528	1.250	1.486	.120
24	1.708	1.375	1.615	.127



MS3454 PANEL CUTOUT

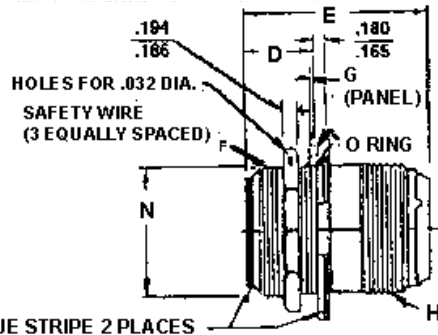
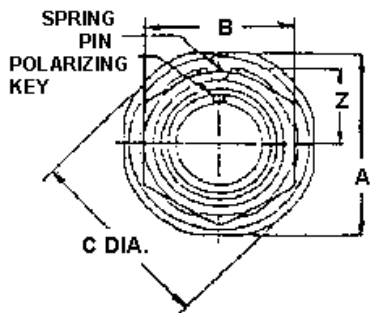
SHELL SIZE	Z +.005	O DIA. +.005 -.010
8S	.323	.505
10S, 10SL	.385	.640
12, 12S	.448	.765
14, 14S	.510	.890
16, 16S	.573	1.015
18	.635	1.140
20	.698	1.265
22	.760	1.390
24	.823	1.515
28	.948	1.765
32	1.073	2.015
36	1.198	2.265
40	1.323	2.515

SHELL SIZE	A MAX	B ±.005	C ±.003	U ±.006
8	.828	.554	.568	.120
10	.954	.719	.585	.120
12	1.047	.812	.564	.120
14	1.141	.906	.963	.120
16	1.234	1.060	1.115	.120
18	1.328	1.092	1.236	.120
20	1.418	1.150	1.265	.120
22	1.528	1.250	1.486	.120
24	1.708	1.375	1.615	.127

SHELL SIZE	A MAX	B ±.005	C ±.003	U ±.006
8	.828	.554	.568	.120
10	.954	.719	.585	.120
12	1.047	.812	.564	.120
14	1.141	.906	.963	.120
16	1.234	1.060	1.115	.120
18	1.328	1.092	1.236	.120
20	1.418	1.150	1.265	.120
22	1.528	1.250	1.486	.120
24	1.708	1.375	1.615	.127

SHELL SIZE	A MAX	B ±.005	C ±.003	U ±.006
8	.828	.554	.568	.120
10	.954	.719	.585	.120
12	1.047	.812	.564	.120
14	1.141	.906	.963	.120
16	1.234	1.060	1.115	.120
18	1.328	1.092	1.236	.120
20	1.418	1.150	1.265	.120
22	1.528	1.250	1.486	.120
24	1.708	1.375	1.615	.127

SHELL SIZE	A MAX	B ±.005	C ±.003	U ±.006
8	.828	.554	.568	.120
10	.954	.719	.585	.120
12	1.047	.812	.564	.120
14	1.141	.906	.963	.120
16	1.234	1.060	1.115	.120
18	1.328	1.092	1.236	.120
20	1.418	1.150	1.265	.120
22	1.528	1.250	1.486	.120
24	1.708	1.375	1.615	.127



18	954	719	585	120
19	1.047	812	564	120
19	1.111	906	569	120
19	1.234	986	1.115	120
19	1.308	1.062	1.136	120
20	1.413	1.150	1.365	120
22	1.578	1.250	1.486	120
24	1.703	1.375	1.615	120

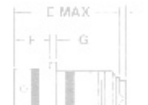
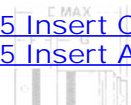
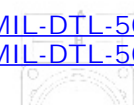
BLUE STRIPE 2 PLACES

SHELL SIZE	A +.005	B +.010	C +.005	D +.005	E MAX		F Coupling Thread	G MAX	H Accessory Thread
					12 & 16 Contacts	0, 4 & 8 Contacts			
8S	1.187	.687	1.272	.720	2.031	2.031	1/2-28 UNEF	.128	1/2-20 UNEF
10S/10SL	1.312	.812	1.397	.720	2.031	2.031	5/8-24 UNEF	.128	5/8-24 UNEF
12S	1.437	.937	1.522	.720	2.031	2.031	3/4-20 UNEF	.128	3/4-20 UNEF
12	1.437	.937	1.522	.970	2.125	2.125	3/4-20 UNEF	.128	3/4-20 UNEF
14S	1.562	1.125	1.647	.720	2.031	-	7/8-20 UNEF	.128	7/8-20 UNEF
14	1.562	1.125	1.647	.970	2.125	-	7/8-20 UNEF	.128	7/8-20 UNEF
16S	1.687	1.250	1.772	.720	2.031	-	1-20 UNEF	.128	1-20 UNEF
16	1.687	1.250	1.772	.970	2.125	2.500	1-20 UNEF	.128	1-20 UNEF
18	1.812	1.375	1.897	.970	2.125	2.500	1 1/8-18 UNEF	.128	1 1/16-18 UNEF
20	1.937	1.500	2.022	.970	2.125	2.500	1 1/4-18 UNEF	.128	3/16-18 UNEF
22	2.156	1.625	2.241	.970	2.125	2.500	1 3/8-18 UNEF	.128	5/16-18 UNEF
24	2.281	1.750	2.366	.970	2.125	2.500	1 1/2-18 UNEF	.128	7/16-18 UNEF
28	2.531	2.000	2.616	.970	2.125	2.500	1 3/4-18 UNS	.128	1 3/4-18 UNS
32	2.781	2.375	2.866	.970	2.125	2.500	2-18 UNS	.128	2-18
36	3.301	2.625	3.116	.970	2.125	2.500	2 1/4-16 UN	.128	2 1/4-16 UN
40	3.281	2.875	3.366	.970	2.125	2.500	2 1/2-16 UN	.128	2 1/2 UN

A	B	C	D
MAX	+.005	+.005	+.005
828	564	568	120
954	719	585	120
1047	812	564	120
1111	906	569	120
1234	986	1.115	120
1308	1.062	1.136	120
1413	1.150	1.365	120
1578	1.250	1.486	120
1703	1.375	1.615	120

A	B	C	D
MAX	+.005	+.005	+.005
828	564	568	120
954	719	585	120
1047	812	564	120
1111	906	569	120
1234	986	1.115	120
1308	1.062	1.136	120
1413	1.150	1.365	120
1578	1.250	1.486	120
1703	1.375	1.615	120

[MIL-DTL-5015 Insert Contacts, Service Rating & Clocking Positions](#)
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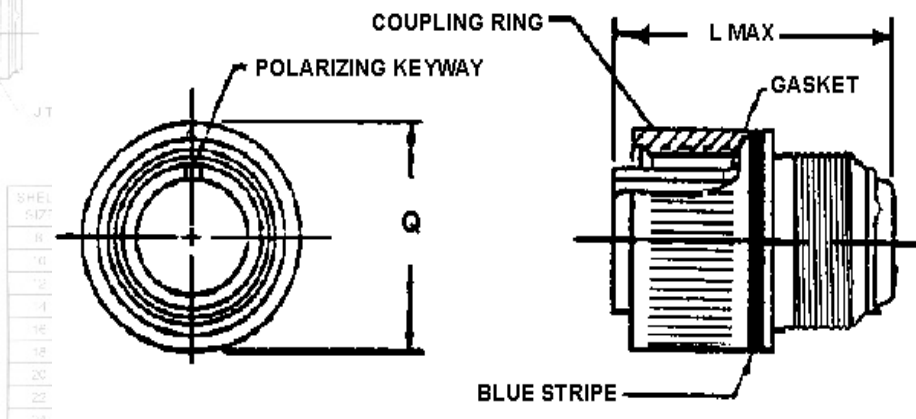
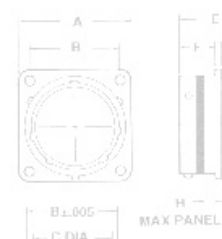
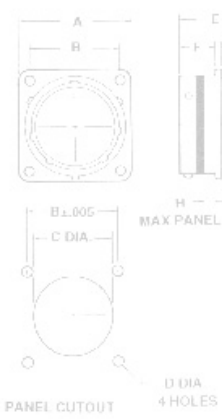
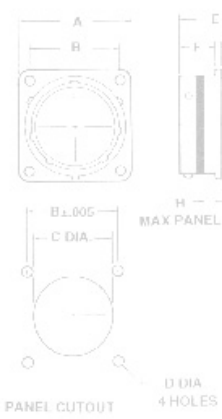
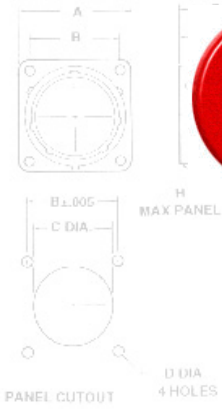
**Allen Electric
Connector Sales, inc.**



MS3456 PLUG



SHELL SIZE	A MAX	B ±.005	C ±.032	D ±.032
8	.828	.564	.568	.120
10	.954	.719	.585	.120
12	1.047	.812	.564	.120
14	1.141	.906	.969	.120
16	1.234	.986	1.115	.120
18	1.328	1.062	1.236	.120
20	1.418	1.150	1.363	.120
22	1.578	1.250	1.486	.120
24	1.708	1.375	1.615	.127



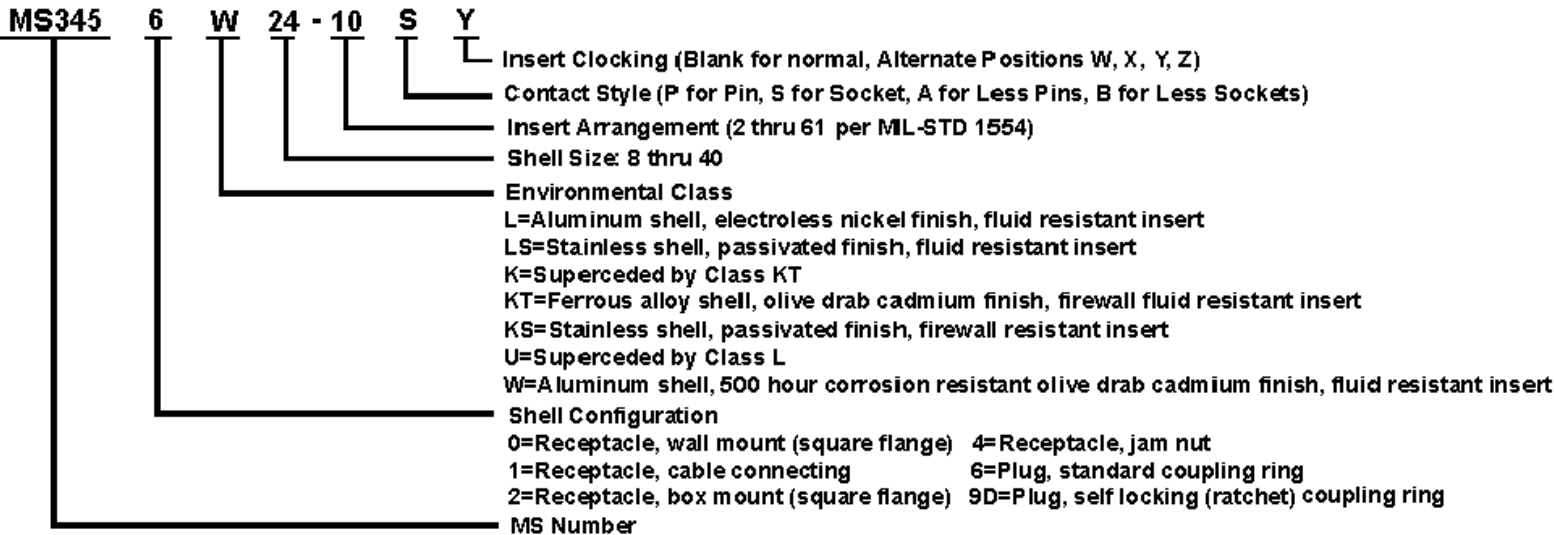
SHELL SIZE	A MAX	B ±.005	C ±.032	D ±.032
8	.828	.564	.568	.120
10	.954	.719	.585	.120
12	1.047	.812	.564	.120
14	1.141	.906	.969	.120
16	1.234	.986	1.115	.120
18	1.328	1.062	1.236	.120
20	1.418	1.150	1.363	.120
22	1.578	1.250	1.486	.120
24	1.708	1.375	1.615	.127

SHELL SIZE	L MAX		O MAX
	SIZE 16 & 12 CONTACTS	SIZE 0, 4 & 8 CONTACTS	
8S	2.031	-	.844
10S	2.031	-	.969
10SL	2.031	-	.969
12S	2.031	-	1.062
12	2.125	-	1.062
14S	2.031	-	1.156
14	2.125	-	1.156
16S	2.031	-	1.250
16	2.125	2.500	1.250
18	2.125	2.500	1.344
20	2.125	2.500	1.469
22	2.125	2.500	1.594
24	2.125	2.500	1.719
28	2.125	2.500	1.969
32	2.125	2.500	2.219
36	2.125	2.500	2.469
40	2.125	2.500	2.719

[MIL-DTL-5015 Insert Contacts, Service Rating & Clocking Positions](#)
[MIL-DTL-5015 Insert Arrangements](#)

SHELL SIZE	A MAX	B ±.005	C ±.032	D ±.032
8	.828	.564	.568	.120
10	.954	.719	.585	.120

MILITARY PART NUMBERING SYSTEM



20	1.4x8	1.150	1.365	.20	1.275	1.02	.094	.212	1.716-8 UN-1F
22	1.5x8	1.250	1.485	.20	1.275	1.02	.094	.212	1.5-16-8 UN-1F
24	1.708	1.375	1.615	.247	1.275	1.02	.094	.212	1.7-16-8 UN-1F

20	1.4x8	1.150	1.365	.20	1.275	1.02	.094	.212	1.7-16-8 UN-1F
22	1.5x8	1.250	1.485	.20	1.275	1.02	.094	.212	1.5-16-8 UN-1F
24	1.708	1.375	1.615	.247	1.275	1.02	.094	.212	1.7-16-8 UN-1F

For pricing and availability, please fill out our RFQ form



If you need any other information, please E-Mail aecs@aecsinc.com



phone (703) 425-3815 fax (703) 425-3814

We look forward to hearing from you!



SHELL SIZE	A	B ±.005	C ±.035	D ±.055	E MAX	F ±0.0	G ±.010	H MAX	J	JH-HEAD SA
8	.828	.554	.568	.120	1.275	.440	.052	.087	.318-20 UN-1F	
10	.954	.719	.585	.120	1.275	.440	.052	.087	.318-20 UN-1F	
12	1.047	.812	.584	.120	1.275	.428	.062	.087	.318-20 UN-1F	
14	1.131	.906	.583	.120	1.275	.428	.062	.087	.318-20 UN-1F	
16	1.234	.980	1.115	.20	1.275	.428	.062	.087	.318-20 UN-1F	
18	1.338	1.052	1.235	.20	1.275	.428	.062	.087	.318-20 UN-1F	
20	1.4x8	1.150	1.365	.20	1.275	.428	.062	.087	.318-20 UN-1F	
22	1.5x8	1.250	1.485	.20	1.275	.428	.062	.087	.318-20 UN-1F	
24	1.708	1.375	1.615	.247	1.275	.428	.062	.087	.318-20 UN-1F	

SHELL SIZE	A	B ±.005	C ±.035	D ±.055	E MAX	F ±0.0	G ±.010	H MAX	J	JH-HEAD SA
8	.828	.554	.568	.120	1.275	.440	.052	.087	.318-20 UN-1F	
10	.954	.719	.585	.120	1.275	.440	.052	.087	.318-20 UN-1F	
12	1.047	.812	.584	.120	1.275	.428	.062	.087	.318-20 UN-1F	
14	1.131	.906	.583	.120	1.275	.428	.062	.087	.318-20 UN-1F	
16	1.234	.980	1.115	.20	1.275	.428	.062	.087	.318-20 UN-1F	
18	1.338	1.052	1.235	.20	1.275	.428	.062	.087	.318-20 UN-1F	
20	1.4x8	1.150	1.365	.20	1.275	.428	.062	.087	.318-20 UN-1F	
22	1.5x8	1.250	1.485	.20	1.275	.428	.062	.087	.318-20 UN-1F	
24	1.708	1.375	1.615	.247	1.275	.428	.062	.087	.318-20 UN-1F	

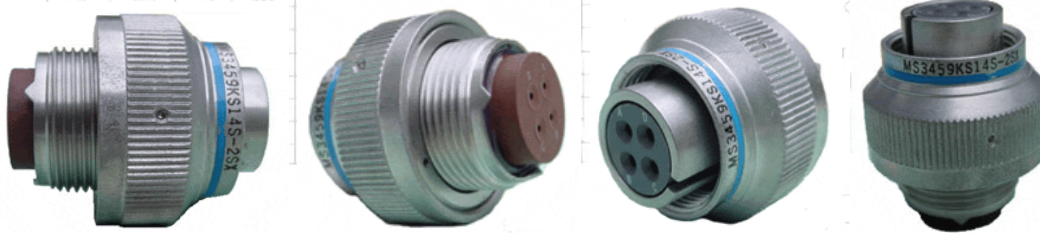
A Woman Owned Small Business, CAGE Code 07BG6



Allen Electric Connector Sales, Inc.



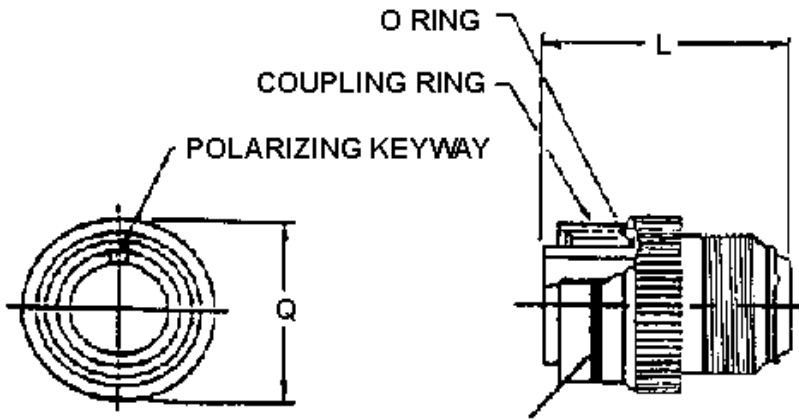
MS3459D SELF LOCKING PLUG, less coupling indicator



SHELL SIZE	A MAX	B ±.005	C ±.032	D ±.032
8	.828	.554	.568	.120
10	.954	.719	.585	.120
12	1.047	.812	.564	.120
14	1.141	.906	.969	.120
16	1.234	.986	1.115	.120
18	1.328	1.062	1.236	.120
20	1.418	1.150	1.365	.120
22	1.518	1.250	1.486	.120
24	1.708	1.375	1.615	.120

SHELL SIZE	A MAX	B ±.005	C ±.032	D ±.032
8	.828	.554	.568	.120
10	.954	.719	.585	.120
12	1.047	.812	.564	.120
14	1.141	.906	.969	.120
16	1.234	.986	1.115	.120
18	1.328	1.062	1.236	.120
20	1.418	1.150	1.365	.120
22	1.518	1.250	1.486	.120
24	1.708	1.375	1.615	.120

SHELL SIZE	A MAX	B ±.005	C ±.032	D ±.032
8	.828	.554	.568	.120
10	.954	.719	.585	.120
12	1.047	.812	.564	.120
14	1.141	.906	.969	.120
16	1.234	.986	1.115	.120
18	1.328	1.062	1.236	.120
20	1.418	1.150	1.365	.120
22	1.518	1.250	1.486	.120
24	1.708	1.375	1.615	.120



BLUE STRIPE

SHELL SIZE	L MAX		Q MAX
	SIZE 16 & 12 CONTACTS	SIZE 0, 4 & 8 CONTACTS	
8S	2.031	-	.963
10S	2.031	-	1.088
10SL	2.031	2.087	1.088
12S	2.031	2.087	1.213
12	2.125	-	1.213
14S	2.031	2.112	1.358
14	2.125	2.112	1.358
16S	2.031	-	1.463
16	2.125	2.500	1.463
18	2.125	2.500	1.586
20	2.125	2.500	1.713
22	2.125	2.500	1.788
24	2.125	2.500	1.963
28	2.125	2.500	2.213
32	2.125	2.500	2.463
36	2.125	2.500	2.713

SHELL SIZE	A MAX	B ±.005	C ±.032	D ±.032
8	.828	.554	.568	.120
10	.954	.719	.585	.120
12	1.047	.812	.564	.120
14	1.141	.906	.969	.120
16	1.234	.986	1.115	.120
18	1.328	1.062	1.236	.120
20	1.418	1.150	1.365	.120
22	1.518	1.250	1.486	.120
24	1.708	1.375	1.615	.120

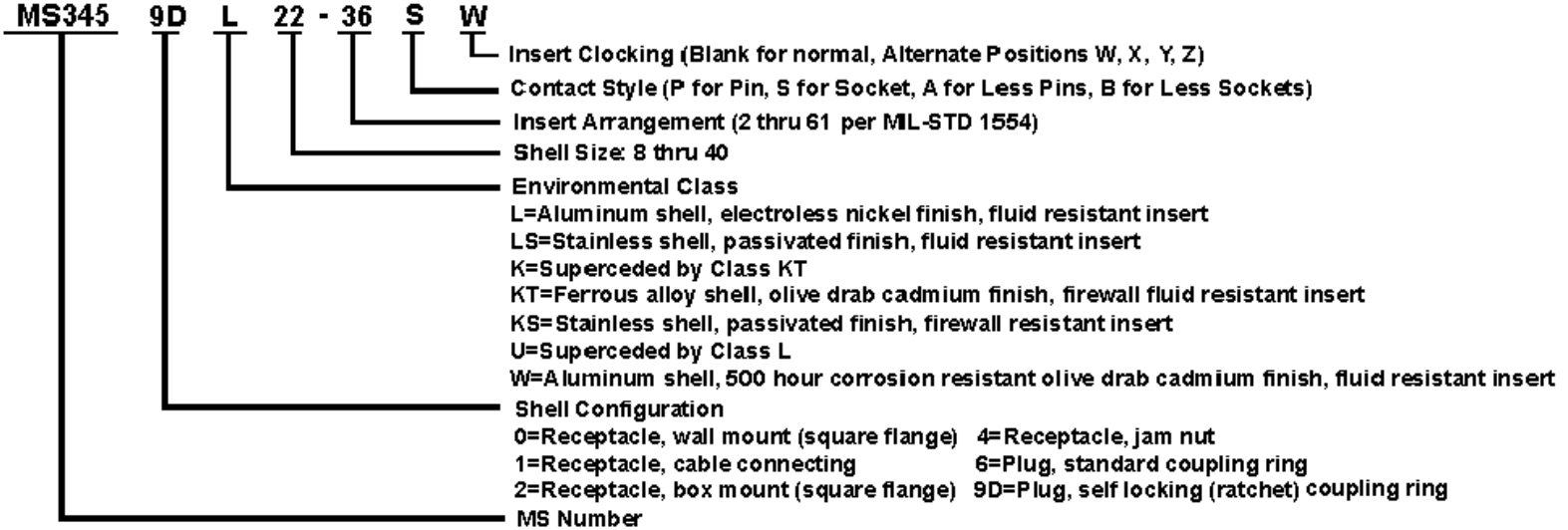
SHELL SIZE	A MAX	B ±.005	C ±.032	D ±.032
8	.828	.554	.568	.120
10	.954	.719	.585	.120
12	1.047	.812	.564	.120
14	1.141	.906	.969	.120
16	1.234	.986	1.115	.120
18	1.328	1.062	1.236	.120
20	1.418	1.150	1.365	.120
22	1.518	1.250	1.486	.120
24	1.708	1.375	1.615	.120

SHELL SIZE	A MAX	B ±.005	C ±.032	D ±.032
8	.828	.554	.568	.120
10	.954	.719	.585	.120

SHELL SIZE	A MAX	B ±.005	C ±.032	D ±.032
8	.828	.554	.568	.120
10	.954	.719	.585	.120

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MILITARY PART NUMBERING SYSTEM



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phone (703) 425-3815 fax (703) 425-3814

We look forward to hearing from you!



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40	2.125	2.500	2.963
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12	1.047	0.72	0.64	1.20
14	1.131	0.86	0.69	1.20
16	1.234	1.00	1.115	1.20
18	1.338	1.00	1.235	1.20
20	1.443	1.150	1.365	1.20
22	1.578	1.500	1.485	1.20

8	828	554	568	120	1.275	446	092	087	1.20 UNF
10	954	719	585	120	1.275	446	092	087	1.20 UNF
12	1.047	815	585	120	1.275	446	092	087	1.20 UNF
14	1.131	906	585	120	1.275	446	092	087	1.20 UNF
16	1.234	1060	1.115	120	1.275	446	092	087	1.20 UNF
18	1.338	1.000	1.235	120	1.275	446	092	087	1.20 UNF
20	1.443	1.150	1.365	120	1.275	446	092	087	1.20 UNF
22	1.578	1.500	1.485	120	1.275	446	092	087	1.20 UNF
24	1.708	1.375	1.615	120	1.275	446	092	087	1.20 UNF

8	828	554	568	120	±.005	±.005
10	954	719	585	120	±.005	±.005
12	1.047	815	585	120	±.005	±.005
14	1.131	906	585	120	±.005	±.005
16	1.234	1060	1.115	120	±.005	±.005
18	1.338	1.000	1.235	120	±.005	±.005
20	1.443	1.150	1.365	120	±.005	±.005
22	1.578	1.500	1.485	120	±.005	±.005
24	1.708	1.375	1.615	120	±.005	±.005

