

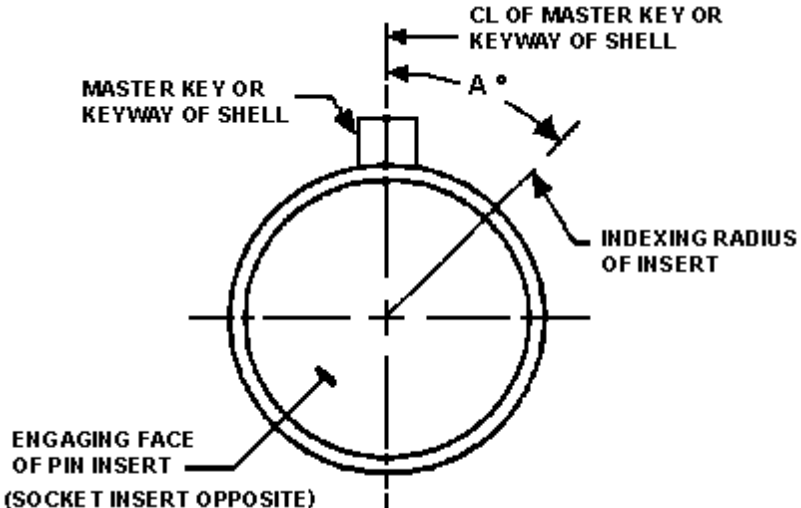


Allen Electric Connector Sales, Inc.



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	52-20 UNEF
10	964	719	685	120	1.215	446	062	087	58-24 UNEF
12	1047	812	824	120	1.215	446	062	087	75-20 UNEF
14	1131	906	963	120	1.215	446	062	087	75-20 UNEF
16	1234	990	1115	120	1.215	446	062	087	1-25 UNEF
18	1338	1082	1205	120	1.215	446	062	087	11-16-18 UNLF
20	1443	1160	1363	120	1.275	572	094	212	13-16-18 UNLF
22	1578	1250	1485	120	1.275	572	094	212	15-16-18 UNLF
24	1708	1375	1615	147	1.275	572	094	212	17-16-18 UNLF



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	52-20 UNEF
10	964	719	685	120	1.215	446	062	087	58-24 UNEF
12	1047	812	824	120	1.215	446	062	087	75-20 UNEF
14	1131	906	963	120	1.215	446	062	087	75-20 UNEF
16	1234	990	1115	120	1.215	446	062	087	1-25 UNEF
18	1338	1082	1205	120	1.215	446	062	087	11-16-18 UNLF
20	1443	1160	1363	120	1.275	572	094	212	13-16-18 UNLF
22	1578	1250	1485	120	1.275	572	094	212	15-16-18 UNLF
24	1708	1375	1615	147	1.275	572	094	212	17-16-18 UNLF

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 CU12S-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	

ROULETS	ROULETS	ROULETS	ROULETS	ROULETS	ROULETS	ROULETS	ROULETS	ROULETS	ROULETS	ROULETS	ROULETS	ROULETS
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!



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