

MIL-DTL-5015

SERIES III



MILITARY PREFIX	MS34	50	W	28	3	P	W
CORSAIR PREFIX	CJ09	50	W	28	3	P	W

CONNECTOR CONFIGURATION

50 RECEPTACLE, WALL MOUNT
51 RECEPTACLE, CABLE CONNECTING
52 RECEPTACLE, BOX MOUNT
54 RECEPTACLE, JAM NUT
56 PLUG, STRAIGHT
59 PLUG, SELF-LOCKING

CLASS

KS STAINLESS STEEL, PASSIVATED, FIREWALL
KT CARBON STEEL, CADMIUM, FIREWALL
LS STAINLESS STEEL, PASSIVATED, FLUID RESISTANT INSERT
L ALUMINUM, ELECTROLESS NICKEL
W ALUMINUM OLIVE DRAB CADMIUM OVER ELECTROLESS NICKEL BASE,
(500 HR CORROSION RESISTANT)

SHELL SIZE

8S, 10S, 10SL, 12, 12S, 14, 14S, 16, 16S, 18, 20, 22, 24, 28, 32, 36 AND 40

INSERT ARRANGEMENT

REFER TO LAYOUT PATTERNS PER MIL-DTL-1651

CONTACT TYPE

P PIN
S SOCKET
A CONNECTOR LESS PINS
B CONNECTOR LESS SOCKETS

POLARIZATION

N NORMAL (NOT INCLUDED IN PART NUMBER)
W, X, Y, OR Z ALTERNATE POSITIONS REFER TO
POLARIZATION CHART

GENERAL SPECIFICATIONS NOTES

- REAR RELEASE CONTACT RETENTION SYSTEM.
- 14 SHELL SIZES (8 TO 40) IN OVER 150 INSERT ARRANGEMENTS UTILIZING CONTACT SIZES 16, 16S, 12, 8, 4, AND 0 GAGE CRIMP CONTACTS PER MIL-C-39029.
- THREADED COUPLING MECHANISM.
- POLARIZATION BY INSERT ROTATION PER MIL-C-1669.

OPERATING TEMPERATURE RANGE:

CLASS K: -55 C (-67 F) TO 175 C (347 F)

CLASS L: -55 C (-67 F) TO 200 C (392 F)

CLASS W: -55 C (-67 F) TO 175 C (347 F)

ENVIRONMENTAL FLOUROSILICONE
ELASTOMERS

REFER TO ADDITIONAL CONTACT AND
TOOLING INFORMATION

CAGE Code: 1R6R9

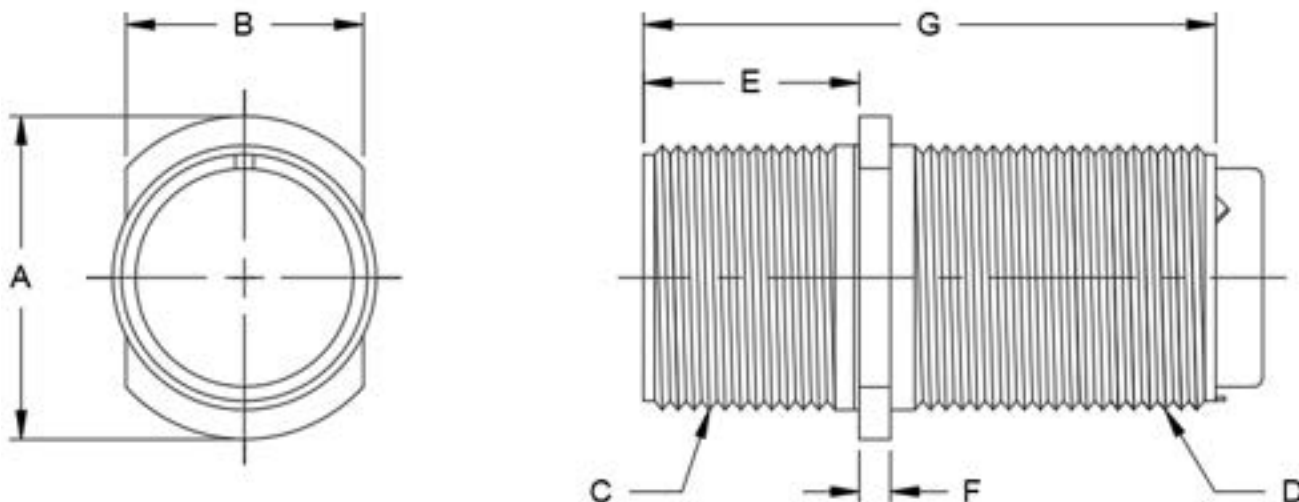
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MIL-DTL-5015 SERIES III



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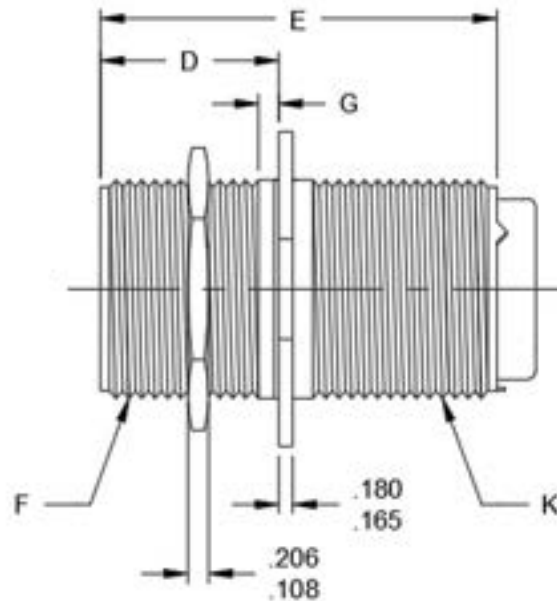
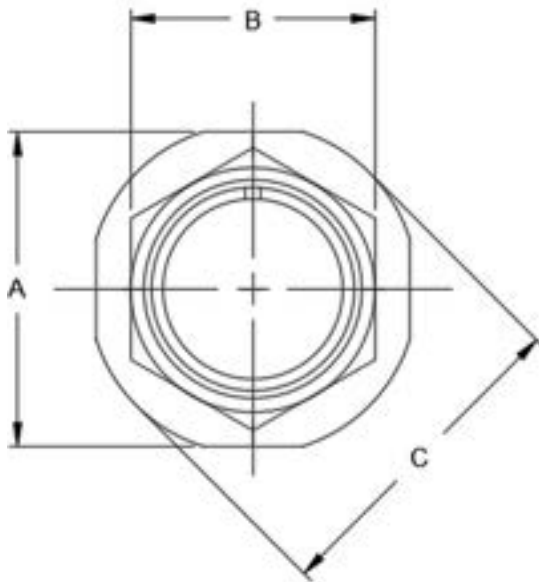
Shell Size	A ±.031	B		C Coupling Threads Class 2A	D Accessory Thread Class 2A	E +.031 -0.000	F ±.015	G	
		Max	Min					Max Contact Size 16 & 12	8, 4, & 0
8S	0.729	0.504	0.496	1/2-28 UNEF	1/2-20 UNEF	0.562	0.830	2.031	-
10S	0.854	0.629	0.621	5/8-24 UNEF	5/8-24 UNEF	0.562	0.830	2.031	-
10SL	0.854	0.629	0.621	5/8-24 UNEF	5/8-24 UNEF	0.562	0.830	2.031	-
12S	0.974	0.754	0.746	3/4-20 UNEF	3/4-20 UNEF	0.562	0.830	2.031	-
12	0.974	0.754	0.746	3/4-20 UNEF	3/4-20 UNEF	0.750	0.830	2.125	-
14S	1.099	0.879	0.871	7/8-20 UNEF	7/8-20 UNEF	0.562	0.830	2.031	-
14	1.099	0.879	0.871	7/8-20 UNEF	7/8-20 UNEF	0.750	0.830	2.125	-
16S	1.224	1.005	0.996	1-20 UNEF	1-20 UNEF	0.562	0.830	2.031	-
16	1.224	1.005	0.996	1-20 UNEF	1-20 UNEF	0.750	0.830	2.125	2.500
18	1.349	1.131	1.121	1 1/8-18 UNEF	1 1/16-18 UNEF	0.750	0.125	2.125	2.500
20	1.474	1.256	1.246	1 1/4-18 UNEF	1 3/16-18 UNEF	0.750	0.125	2.125	2.500
22	1.599	1.381	1.371	1 3/8-18 UNEF	1 5/16-18 UNEF	0.750	0.125	2.125	2.500
24	1.715	1.506	1.496	1 1/2-18 UNEF	1 7/16-18 UNEF	0.812	0.125	2.125	2.500
28	1.974	1.756	1.746	1 3/4-18 UNS	1 3/4-18 UNEF	0.812	0.125	2.125	2.500
32	2.224	2.007	1.996	2-18 UNS	2-18 UNS	0.875	0.125	2.125	2.500
36	2.474	2.257	2.246	2 1/4-16 UN	2 1/4-16 UN	0.875	0.125	2.125	2.500
40	2.724	2.511	2.496	2 1/2-16 UN	2 1/2-16 UN	0.875	0.125	2.125	2.500
44	2.974	2.746	2.761	2 3/4-16 UN	2 3/4-16 UN	0.875	0.125	2.125	2.500
48	3.224	2.996	3.011	3-16 UN	3-16 UN	0.875	0.125	2.125	2.500

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Shell Size	A	B	C	D	E		F Coupling Thread Class 2A	G	K Accessory Thread Class 2A
					Max. Contact Size				
	±.005	±.017	±.005	±.005	16 & 12	8, 4, & 0		Max.	
8S	1.187	.687	1.272	.720	2.031	-	1/2-28 UNEF	.128	1/2-20 UNEF
10S	1.312	.812	1.397	.720	2.031	-	5/8-24 UNEF	.128	5/8-24 UNEF
10SL	1.312	.812	1.397	.720	2.031	-	5/8-24 UNEF	.128	5/8-24 UNEF
12S	1.437	.937	1.522	.720	2.031	-	3/4-20 UNEF	.128	3/4-20 UNEF
12	1.437	.937	1.522	.970	2.125	-	3/4-20 UNEF	.128	3/4-20 UNEF
14S	1.562	1.062	1.647	.720	2.031	-	7/8-20 UNEF	.128	7/8-20 UNEF
14	1.562	1.062	1.647	.970	2.125	-	7/8-20 UNEF	.128	7/8-20 UNEF
16S	1.687	1.188	1.772	.720	2.031	-	1-20 UNEF	.128	1-20 UNEF
16	1.687	1.188	1.772	.970	2.125	2.500	1-20 UNEF	.128	1-20 UNEF
18	1.812	1.312	1.897	.970	2.125	2.500	1 1/8-18 UNEF	.128	1 1/16-18 UNEF
20	1.937	1.438	2.022	.970	2.125	2.500	1 1/4-18 UNEF	.128	1 3/16-18 UNEF
22	2.156	1.562	2.341	.970	2.125	2.500	1 3/8-18 UNEF	.128	1 5/16-18 UNEF
24	2.281	1.688	2.366	.970	2.125	2.500	1 1/2-18 UNEF	.128	1 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 UNEF
32	2.781	2.250	2.866	.970	2.125	2.500	2-18 UNS	.128	2-18 UNS
36	3.031	2.500	3.116	.970	2.125	2.500	2 1/4-16 UN	.128	2 1/4-16 UN
40	3.281	2.750	3.366	.970	2.125	2.500	2 1/2-16 UN	.128	2 1/2-16 UN
44	3.531	3.000	3.541	.970	2.125	2.500	2 3/4-16 UN	.128	2 3/4-16 UN
48	3.781	3.250	3.831	.970	2.125	2.500	3-16 UN	.128	3-16 UN

CAGE Code: 1R6R9

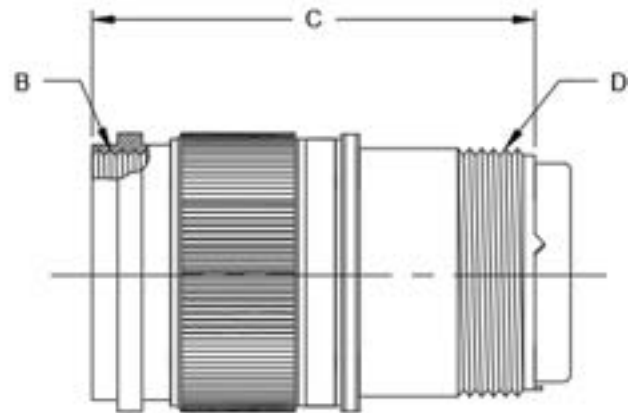
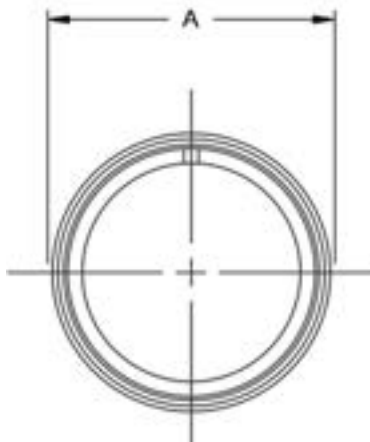
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MIL-DTL-5015 SERIES III



MIL-DTL-5015
SERIES III



Shell Size	A	B		C	D
		Max Contact Size			
	Max.	16 & 12	8, 4, & 0	Class 2B	Class 2A
8S	0.844	2.031	-	1/2-28 UNEF	1/2-20 UNEF
10S	0.969	2.031	-	5/8-24 UNEF	5/8-24 UNEF
10SL	0.969	2.031	-	5/8-24 UNEF	5/8-24 UNEF
12S	1.062	2.031	-	3/4-20 UNEF	3/4-20 UNEF
12	1.062	2.125	-	3/4-20 UNEF	3/4-20 UNEF
14S	1.156	2.031	-	7/8-20 UNEF	7/8-20 UNEF
14	1.156	2.125	-	7/8-20 UNEF	7/8-20 UNEF
16S	1.250	2.031	-	1-20 UNEF	1-20 UNEF
16	1.250	2.125	2.500	1-20 UNEF	1-20 UNEF
18	1.344	2.125	2.500	1 1/8-18 UNEF	1 1/16-18 UNEF
20	1.469	2.125	2.500	1 1/4-18 UNEF	1 3/16-18 UNEF
22	1.594	2.125	2.500	1 3/8-18 UNEF	1 5/16-18 UNEF
24	1.719	2.125	2.500	1 1/2-18 UNEF	1 7/16-18 UNEF
28	1.969	2.125	2.500	1 3/4-18 UNS	1 3/4-18 UNEF
32	2.219	2.125	2.500	2-18 UNS	2-18 UNS
36	2.469	2.125	2.500	2 1/4-16 UN	2 1/4-16 UN
40	2.719	2.125	2.500	2 1/2-16 UN	2 1/2-16 UN
44	2.569	2.125	2.500	2 3/4-16 UN	2 3/4-16 UN
48	3.219	2.125	2.500	3-16 UN	3-16 UN

CAGE Code: 1R6R9

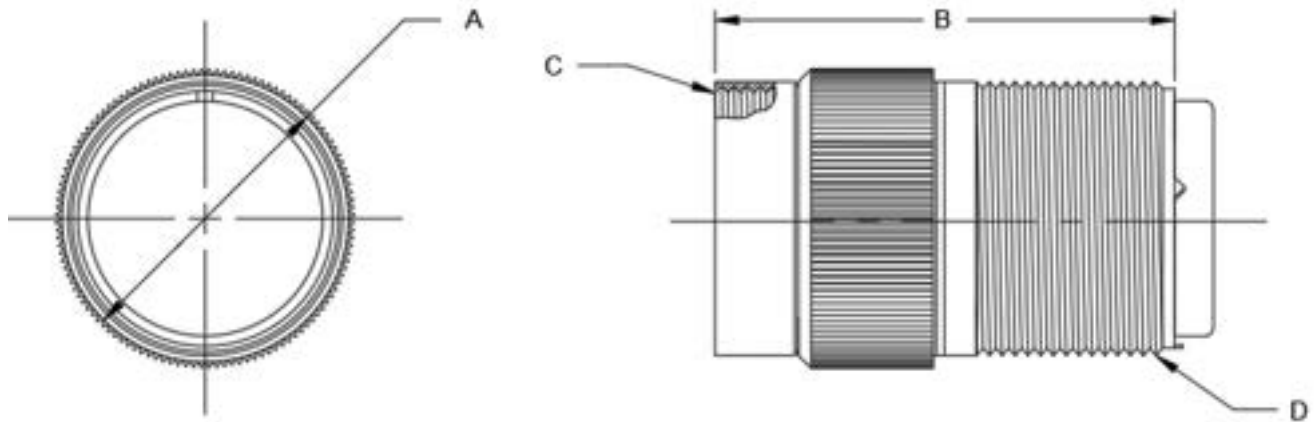
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MS3459

MIL-DTL-5015 SERIES III



MIL-DTL-5015
SERIES III



Shell Size	A Max.	B		C Coupling Threads Class 2B	D Accessory Thread Class 2A
		Max Contact Size 16 & 12	8, 4, & 0		
8S	0.963	2.031	-	1/2-28 UNEF	1/2-20 UNEF
10S	1.088	2.031	-	5/8-24 UNEF	5/8-24 UNEF
10SL	1.088	2.031	-	5/8-24 UNEF	5/8-24 UNEF
12S	1.213	2.031	-	3/4-20 UNEF	3/4-20 UNEF
12	1.213	2.125	-	3/4-20 UNEF	3/4-20 UNEF
14S	1.358	2.031	-	7/8-20 UNEF	7/8-20 UNEF
14	1.358	2.125	-	7/8-20 UNEF	7/8-20 UNEF
16S	1.463	2.031	-	1-20 UNEF	1-20 UNEF
16	1.463	2.125	2.500	1-20 UNEF	1-20 UNEF
18	1.588	2.125	2.500	1 1/8-18 UNEF	1 1/16-18 UNEF
20	1.713	2.125	2.500	1 1/4-18 UNEF	1 3/16-18 UNEF
22	1.788	2.125	2.500	1 3/8-18 UNEF	1 5/16-18 UNEF
24	1.963	2.125	2.500	1 1/2-18 UNEF	1 7/16-18 UNEF
28	2.213	2.125	2.500	1 3/4-18 UNS	1 3/4-18 UNEF
32	2.463	2.125	2.500	2-18 UNS	2-18 UNS
36	2.713	2.125	2.500	2 1/4-16 UN	2 1/4-16 UN
40	2.963	2.125	2.500	2 1/2-16 UN	2 1/2-16 UN

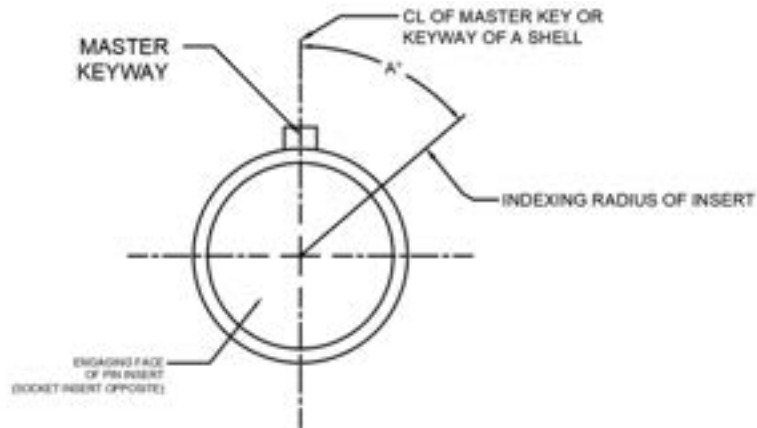
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SERIES II & III



NORMAL POSITIONS - THE CENTERLINE OF THE FACE VIEW OF THE INSERT PATTERN (SEE INSERT PATTERN LAYOUT CHART) IS ALIGNED WITH THE SHELL KEYWAY ON THE PLUG AND THE KEY ON THE RECEPTACLE. THEREFORE, ANGLE A ON THE OPPOSITE DRAWING WOULD BE ZERO DEGREES.

ALTERNATE POSITIONS - THE CENTERLINE OF THE FACE VIEW OF THE INSERT PATTERN (SEE INSERT PATTERN LAYOUT CHART) IS ROTATED IN RELATIONSHIP TO THE SHELL KEYWAY ON THE PLUG AND KEY ON THE RECEPTACLE. PIN INSERTS ARE ROTATED CLOCKWISE. THEREFORE A 12S-3 PIN INSERT LAYOUT IN THE W POSITION WOULD HAVE AN ANGLE A (ON THE OPPOSITE DRAWING) OF 70 DEGREES.



INSERTS	CONTACTS		SERVICE RATING	ALTERNATE INSERT POSITIONS A DEGREES			
	5015	QUANTITY		SIZE	W	X	Y
SHELL SIZE 8							
8S-1	1	16	A	---	---	---	---
SHELL SIZE 10							
10S-2	1	16	A	---	---	---	---
10S-3	3	16	A	---	---	---	---
10S-4	2	16	A	---	---	---	---
SHELL SIZE 12							
12S-1	2	16	A	12S-3 ROTATED 100 DEGREES C/W IN SHELL			
12S-2	2	16	A	12S-3 ROTATED 250 DEGREES C/W IN SHELL			
12S-3	2	16	A	70	145	215	290
12S-4	1	16	D	---	---	---	---
12S-5	1	12	D	---	---	---	---
SHELL SIZE 14							
14S-1	3	16	A	---	---	---	---
14S-2	4	16	INST	---	120	240	---
14S-3	1	8	A	---	---	---	---
14S-5	5	16	INST	---	110	---	---
14S-6	6	16	INST	---	---	---	---
14S-7	3	16	A	90	180	270	---
14S-9	2	16	A	70	145	215	290
14S-10	4	16	INST	14S-2 ROTATED 100 DEGREES C/W IN SHELL			
14S-11	4	16	INST	12S-2 ROTATED 250 DEGREES C/W IN SHELL			
SHELL SIZE 16							
16S-1	7	16	A	80	---	---	280
16S-2	1	12	E	---	---	---	---
16S-3	1	16	B	---	---	---	---
16S-4	2	16	D	35	110	250	325
16S-7	2	16	A	80	110	250	280
16S-8	5	16	A	---	170	265	---
16S-9	2	16	A	35	110	250	325
16S-10	3	12	A	90	180	270	---
16S-11	2	12	A	35	110	250	325
16S-12	1	4	A	---	---	---	---
16S-13	2	12	A	35	110	250	325

INSERTS	CONTACTS		SERVICE RATING	ALTERNATE INSERT POSITIONS A DEGREES			
	1015	QUANTITY		SIZE	W	X	Y
SHELL SIZE 18							
18-1	4	16	A (B, C, F, G)	70	145	215	290
	6		INST				
18-4	4	16	D	35	110	250	325
18-5	1	16	D	80	110	250	280
	2	12	D				
18-6	1	4	D	---	---	---	---
18-7	1	8	B	---	---	---	---
18-8	7	16	A	70	---	---	290
	1	12					
18-9	5	16	INST	80	110	250	280
	2	12					
18-10	4	12	A	---	120	240	---
18-11	5	12	A	---	170	265	---
18-12	6	16	A	80	---	---	280
18-13	3	12	A	80	110	250	280
	1	8					
18-14	1	16	A	80	110	250	280
	1	4					
18-15	4	12	A	---	120	240	---
18-16	1	12	C	---	---	---	---
18-17	5	16	INST	18-9 INSERT ROTATED 100 DEGREES CW IN SHELL			
	2	12					
18-18	5	16	INST	18-9 INSERT ROTATED 250 DEGREES CW IN SHELL			
	2	12					
18-19	10	16	A	---	120	240	---
18-20	5	16	A	90	180	270	---
18-22	3	16	D	70	145	215	290
18-23	4	16	A	18-1 INSERT ROTATED 100 DEGREES CW IN SHELL			
	6		INST				
18-24	4	16	A	18-1 INSERT ROTATED 250 DEGREES CW IN SHELL			
	6	INST					
18-27	1	16	D	18-5 INSERT ROTATED 100 DEGREES CW IN SHELL			
	2	12					
18-28	1	16	D	18-5 INSERT ROTATED 250 DEGREES CW IN SHELL			
	2	12					

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SERIES II & III



INSERTS	CONTACTS		SERVICE RATING	ALTERNATE INSERT POSITIONS A DEGREES			
	QUANTITY	SIZE		W	X	Y	Z
SHELL SIZE 20							
20-1	14	20	INST.	---	---	---	---
20-2	1	0	D	---	---	---	---
20-3	3	12	D	70	---	---	---
20-4	4	12	D	45	---	---	---
20-7	4	16	D (A, B, G, H)	80	---	---	---
	4	16	A (ALL)				
20-8	4	16	INST.	80	---	---	---
	2	8					
20-9	1	12	D (H)	80	---	---	---
	7	16	A (ALL)				
20-11	13	16	INST.	---	---	---	---
20-14	3	12	A	80	110	250	280
20-15	2	8	A	80	---	---	280
	7	16					
20-16	2	12	A	80	110	250	280
	1	16					
20-17	5	12	A	90	180	270	---
	6	16					
20-18	3	12	A	35	110	250	325
	3	8					
20-19	8	16	A	90	180	270	---
	1	12					
20-21	3	16	A	35	110	250	325
	3	8					
20-22	2	16	A	80	110	250	280
	2	16					
20-24	2	16	A	35	110	250	325
20-27	14	16	A	35	110	250	325
20-29	17	16	A	80	---	---	280
20-32	4	16	D (A, B, G, H)	20-7 INSERT ROTATED 260 DEGREES C/W IN SHELL			
	4	16	A (ALL)				
20-33	11	16	A	---	---	---	---

INSERTS	CONTACTS		SERVICE RATING	ALTERNATE INSERT POSITIONS A DEGREES			
	QUANTITY	SIZE		W	X	Y	Z
SHELL SIZE 24							
24-1	1	12	D	80	110	250	280
	1	0	D				
24-2	7	12	D	80	---	---	280
24-4	3	16	A	80	110	250	280
	1	0	D (A, G, H)				
24-5	16	16	A (ALL)	80	110	250	280
24-6	3	12	A	80	110	250	280
	5	12	A				
24-7	14	16	A	80	110	250	280
	2	12	A				
24-9	2	4	A	35	110	250	325
24-10	7	8	A	80	---	---	280
24-11	6	12	A	35	110	250	325
	3	8					
24-12	3	12	A	80	110	250	280
	2	8					
24-15	16	16	A	24-5 INSERT ROTATED 100 DEGREES C/W IN SHELL			
24-16	3	16	D (A, B, F)	80	110	250	280
	1	8	D (G)				
	3	12	A (ALL)				
24-20	9	16	D	80	110	250	280
	2	12					
24-21	9	16	D	80	110	250	280
	1	8					
24-22	4	8	D	45	110	250	---
24-24	16	16	A	24-5 INSERT ROTATED 250 DEGREES C/W IN SHELL			
24-27	7	16	E	80	---	---	280
24-28	24	16	INST.	80	110	250	280
24-30	23	16	INST.	35	145	240	300

INSERTS	CONTACTS		SERVICE RATING	ALTERNATE INSERT POSITIONS A DEGREES			
	QUANTITY	SIZE		W	X	Y	Z
SHELL SIZE 22							
22-1	2	8	D	35	110	250	325
22-2	3	8	D	75	145	215	280
22-3	3	12	D	75	145	215	280
22-4	2	12	A	35	110	250	325
	2	8					
22-5	4	16	D	35	110	250	325
	2	12					
22-6	1	16	D	80	110	250	280
	2	8					
22-7	1	0	E	—	—	—	—
22-9	2	16	E	80	110	250	280
22-10	4	16	E	35	110	250	325
22-11	2	16	B	35	110	250	325
22-12	3	16	D	80	110	250	280
	2	8					
22-13	1	16	E (D)	35	110	250	325
	6	12	A (ALL)				
22-14	19	16	A	80	110	250	280
22-15	1	16	E (D)	80	110	250	280
	5	12	A (ALL)				
22-17	1	16	D (A)	80	110	250	280
	7	16	A				
	1	12	A (ALL)				
22-18	3	16	A (C, D, E)	80	110	250	280
	5	16	D (ALL)				
22-19	14	16	A	80	110	250	280
22-20	9	16	A	35	110	250	325
22-21	2	16	A	80	110	250	280
22-22	1	0	A	—	110	250	—
	4	8					
22-23	1	12	D (H)	35	—	250	—
	7	12	(ALL)				
22-27	1	8	D (J)	80	—	250	280
	8	16	A (ALL)				
22-28	7	12	A	90	—	—	250
22-30	19	16	A	22-14 INSERT ROTATED 260 DEGREES C/W IN SHELL			
22-32	4	16	D	22-5 INSERT ROTATED 260 DEGREES C/W IN SHELL			
	2	12					
22-33	3	16	A	80	110	250	280
	4	16					
22-36	1	12	D (H)	90	—	270	—
	7	12	A (ALL)				

#INSERTS	CONTACTS		SERVICE RATING	ALTERNATE INSERT POSITIONS A DEGREES			
	50% QUANTITY	SIZE		W	X	Y	Z
SHELL SIZE 26							
26-1	2	12	D (A, E)	80	110	250	280
	4	12	A (B, D, F, H)				
	1	8	D (J)				
	2	8	A (G, C)				
26-2	12	16	D	35	110	250	325
	2	12					
26-3	3	8	E	480	145	215	290
	3	16	E (G, F, S)				
26-4	4	16	D (A, B, E, F)	35	110	250	280
	2	12	D (C, D)				
	2	16					
26-5	1	12	D	80	110	250	325
	2	4					
	2	12	E (L, M)				
26-6	1	16	D (B)	80	110	250	280
	9	16	A (ALL)				
	6	16					
26-8	6	16	D	80	110	---	280
	8	12					
26-10	1	12	D (G)	80	110	250	280
	2	12	A (A, F)				
	2	8	A (B, E)				
	2	4	A (C, D)				
26-11	18	16	A	80	110	250	280
	4	12					
26-12	28	16	A	80	180	270	---
26-15	35	16	A	80	110	250	280
26-16	20	16	A	80	110	250	280
26-17	1	16	B (R)	80	110	250	280
	3	16	D (M, N, P)				
	11	16	A (ALL)				
	1	16	C (R)				
26-18	2	16	A (A, B)	70	145	215	290
	4	16	INST. (C, D, E, F)				
	5	16	D (ALL)				
	2	16	B (Q, M)				
26-19	2	16	D (A, B)	80	110	250	280
	2	16	(ALL)				
	4	16	(ALL)				
	4	16					
26-20	19	12	A	80	110	250	280
	37	16	A				
26-21	3	16	D	80	110	250	280
26-22	3	16		70	145	215	290
	3	4					

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SERIES II & III



#INSERTS	CONTACTS		SERVICE RATING	ALTERNATE INSERT POSITIONS A DEGREES			
	QUANTITY	SIZE		W	X	Y	Z
SHELL SIZE 32							
32-1	1	12	E (A)	80	110	250	280
	2	12	D (D, C)				
	2	0	D (B, E)				
32-2	2	16	E	70	145	215	290
	3	4					
	4	16					
32-3	2	12	D	80	110	350	280
	2	4					
	1	0					
32-6	16	16	A	80	110	250	280
	2	12					
	3	8					
	2	4					
32-7	4	16	INST. (ALL)	80	125	235	280
	24	16	A (ALL)				
	7	12					
32-8	24	16	A	80	125	235	280
	6	21					
32-9	12	16	D	80	110	250	280
	2	4					
	2	16					
32-10	2	16	E	80	110	250	280
	1	16	B				
	2	8	D				
	2	4	A				
32-13	16	16	D	80	110	250	280
	6	12					
32-15	6	16	D	35	110	250	280
	2	0					
32-17	4	4	D	45	110	250	—
	1	12					
32-18	2	12	E (A)	32-18 INSERT ROTATED 240 DEGREES C/C IN SHELL			
	2	12	D (D, C)				
	2	0	D (B, E)				
32-20	16	16	A	32-20 INSERT ROTATED 240 DEGREES C/C IN SHELL			
	2	12					
	3	8					
	2	4					
32-22	54	16	A	80	110	250	280
32-63	5	4	D	—	—	—	—
32-73	45	16	A	38	—	—	—

INSERTS 5015	CONTACTS		SERVICE RATING	ALTERNATE INSERT POSITIONS A DEGREES			
	QUANTITY	SIZE		W	X	Y	Z
SHELL SIZE 40							
40-1	24	16	D	65	130	235	300
	6	12					
40-2	5	16	D	80	110	250	280
	18	16					
40-3	18	16	D	80	110	250	280
	4	12					
	1	4					
40-4	16	16	D	80	110	250	280
	2	12					
	3	8					
	2	4					
40-5	6	12	A	80	110	250	280
	4	8					
	2	4					
	3	0					
40-6	24	24	D	80	110	250	280
	1	1					
	1	1					
40-7	2	2	A (W, X)	80	110	250	280
	2	2	A (U, V)				
	2	2	A (P, Q)				
	16	16	D (ALL)				
40-9	24	16	A	65	125	255	310
	22	12					
	1	8					
40-10	16	16	A	65	125	255	310
	9	8					
	4	4					
40-11	18	16	D	80	110	250	280
	4	12					
	1	8					
	1	4					
	1	0					
40-56	85	16	A	72	144	216	288
40-62	60	16	A	30	130	220	290

INSERTS		CONTACTS		SERVICE RATING	ALTERNATE INSERT POSITIONS A DEGREES			
5015	QUANTITY	SIZE	W		X	Y	Z	
SHELL SIZE 36								
36-3	3	12	D	70	145	215	290	
	3	0						
36-5	4	0	A	—	120	240	—	
	4	4						
36-6	2	0	A	35	110	250	325	
	40	16						
36-7	7	12	A	80	110	250	280	
	46	16						
36-8	1	12	A	80	110	250	280	
	14	16						
36-9	14	12	A	80	125	235	280	
	2	8						
	1	4						
36-10	48	16	A	80	125	235	280	
36-11	48	16	A	36-10 INSERT ROTATED 100 DEGREES C/W IN SHELL				
36-12	48	16	A	36-10 INSERT ROTATED 250 DEGREES C/W IN SHELL				
36-15	35	16	D (M)	60	125	245	305	
			A (ALL)					
36-16	40	16	A	36-7 INSERT ROTATED 100 DEGREES C/W IN SHELL				
	7	12						
36-17	40	16	A	36-7 INSERT ROTATED 350 DEGREES C/W IN SHELL				
	7	12						
36-18	14	16	A	36-9 INSERT ROTATED 100 DEGREES C/W IN SHELL				
	14	12						
	2	8						
	1	4						
36-21	14	16	A	36-9 INSERT ROTATED 280 DEGREES C/W IN SHELL				
	14	12						
	2	8						
	1	4						
36-52	52	16	A	72	144	216	288	
36-66	52	16	A	110	250	260	280	
	4	12						

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SERIES II & III



Inserts	Contacts		Service Rating	Alternate Insert Positions A Degrees			
5015	Quantity	Size		W	X	Y	Z
Shell Size 8							
8S-1	1	16	A	---	---	---	---
Shell Size 10							
10S-2	1	16	A	---	---	---	---
10SL-3	3	16	A	---	---	---	---
10SL-4	2	16	A	---	---	---	---
Shell Size 12							
12S-1	2	16	A	12S-3 Rotated 100 Degrees in Shell			
12S-2	2	16	A	12S-3 Rotated 250 Degrees in Shell			
12S-3	2	16	A	70	145	215	290
12S-4	1	16	D	---	---	---	---
12-5	1	12	D	---	---	---	---
Shell Size 14							
14S-1	3	16	A	---	---	---	---
14S-2	4	16	INST	---	120	240	---
14-3	1	8	A	---	---	---	---
14S-5	5	16	INST	---	110	---	---
14S-6	6	16	INST	---	---	---	---
14S-7	3	16	A	90	180	270	---
14S-9	2	16	A	70	145	215	290
14S-10	4	16	INST	14S-2 Rotated 100 Degrees in Shell			
14S-11	4	16	INST	14S-2 Rotated 250 Degrees in Shell			
Shell Size 16							
16S-1	7	16	A	80	---	---	280
16-2	7	12	E	---	---	---	---
16S-3	1	16	B	---	---	---	---
16S-4	2	16	D	35	110	250	325
16S-5	3	16	A	70	145	215	290
16S-6	3	16	A	90	180	270	---
16-7	2	16	A	80	110	250	280
	1	8					
16S-8	5	16	A	---	170	265	---
16-9	2	16	A	35	110	250	325
	2	12					
16-10	3	12	A	90	180	270	---
16-11	2	12	A	35	110	250	325
16-12	1	4	A	---	---	---	---
16-13	2	12	A	35	110	250	325

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SERIES II & III



Shell Size 18							
18-1	4	16	A (B,C,F,G)	70	145	215	290
	6		INST (Bal)				
18-3	2	12	D	35	110	250	325
18-4	4	16	D	35	110	250	325
18-5	1	16	D	80	110	250	280
	2	12					
18-6	1	4	D	---	---	---	---
18-7	1	8	B	---	---	---	---
18-8	7	16	A	70	---	---	290
	1	12					
18-9	5	16	INST	80	110	250	280
	2	12					
18-10	4	12	A	---	120	240	---
18-11	5	12	A	---	170	265	---
18-12	6	16	A	80	---	---	280
18-13	3	12	A	80	110	250	280
	1	8					
18-14	1	16	A	80	110	250	280
	1	4					
18-15	4	12	A	---	120	240	---
18-16	1	12	C	---	---	---	---
18-17	5	16	INST	18-9 Insert Rotated 100 Degrees in Shell			
	2	12					
18-18	5	16	INST	18-9 Insert Rotated 250 Degrees in Shell			
	2	12					
18-19	10	16	A	---	120	240	---
18-20	5	16	A	90	180	270	---
18-22	3	16	D	70	145	215	290
18-23	4	16	A (B,C,F,G)	18-1 Insert Rotated 100 Degrees in Shell			
	6		INST				
18-24	4	16	A (B,C,F,G)	18-1 Insert Rotated 250 Degrees in Shell			
	6		INST				
18-27	1	16	D	18-5 Insert Rotated 100 Degrees in Shell			
	2	12					
18-28	1	16	D	18-5 Insert Rotated 250 Degrees in Shell			
	2	12					

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SERIES II & III



Shell Size 20							
20-1	14	20	INST	---	---	---	---
20-2	1	0	D	---	---	---	---
20-3	3	12	D	70	145	215	290
20-4	4	12	D	45	110	250	---
20-6	3	16	D	70	145	215	290
20-7	4	16	D (A,B,G,H)	80	110	250	280
	4	16	A (C,D,E,F)				
20-8	4	16	INST	80	110	250	280
	2	8					
20-9	1	12	D (H)	80	110	250	280
	7	16	A (Bal)				
20-11	13	16	INST	---	---	---	---
20-14	3	12	A	80	110	250	280
	2	8					
20-15	7	12	A	80	---	---	280
20-16	7	16	A	80	110	250	280
	2	12					
20-17	1	16	A	90	180	270	---
	5	12					
20-18	6	16	A	35	110	250	325
	3	12					
20-19	3	8	A	90	180	270	---
20-21	8	16	A	35	110	250	325
	1	12					
20-22	3	16	A	80	110	250	280
	3	8					
20-23	2	8	A	35	110	250	325
20-24	2	16	A	35	110	250	325
	2	8					
20-25	13	16	INST	20-11 Insert Rotated 100 Degrees			
20-27	14	16	A	35	110	250	325
20-29	17	16	A	80	---	---	280
20-32	4	16	D (A,B,G,H)	20-7 Insert Rotated 260 Degrees in Shell			
	4	16	A (C,D,E,F)				
20-33	11	16	A	---	---	---	---

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SERIES II & III



Shell Size 22							
22-1	2	8	D	35	110	250	325
22-2	3	8	D	70	145	215	290
22-3	1	16	D	80	110	250	280
	1	4					
22-4	2	12	A	35	110	250	325
	2	8					
22-5	4	16	D	35	110	250	325
	2	12					
22-6	1	16	D	80	110	250	280
	2	8					
22-7	1	0	E	---	---	---	---
22-9	3	12	E	70	145	215	290
22-10	4	16	E	35	110	250	325
22-11	2	16	B	35	110	250	325
22-12	3	16	D	80	110	250	280
	2	8					
22-13	1	16	D (E)	35	110	250	325
	4	12	A (B,C,D)				
22-14	19	16	A	80	110	250	280
22-15	1	16	E (D)	80	110	250	280
	5	12	A (Bal)				
22-17	1	16	D (A)	80	110	250	280
	7	16	A (Bal)				
	1	12	A (E)				
22-18	3	16	A (C,D,E)	80	110	250	280
	5	16	D (Bal)				
22-19	14	16	A	80	110	250	280
22-20	9	16	A	35	110	250	325
22-21	2	16	A	80	110	250	280
	1	0					
22-22	4	8	A	---	110	250	---
22-23	1	12	D (H)	35	---	250	---
	7	12	A (Bal)				
22-27	1	8	D (J)	80	---	250	280
	8	16	A (Bal)				
22-28	7	12	A	80	---	---	280
22-30	19	16	A	22-14 Insert rotated 260 Degrees in Shell			
22-32	4	16	D	22-5 Insert rotated 260 Degrees in Shell			
	2	12					

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SERIES II & III



Shell Size 22 (Continued)							
22-33	3	16	A (E,F,G)	80	110	250	280
	4	16	D (A,B,C,D)				
22-36	1	12	D (H)	90	---	270	---
	7	12	A (Bal)				
Shell Size 24							
24-1	1	12	D	80	110	250	280
	1	0					
24-2	7	12	D	80	---	---	280
24-4	3	16	D	80	110	250	280
	1	0					
24-5	16	16	A	80	110	250	280
24-6	3	12	D (A,G,H)	80	110	250	280
	5	12	A (Bal)				
24-7	14	16	A	80	110	250	280
	2	12					
24-9	2	4	A	35	110	250	325
24-10	7	8	A	80	---	---	280
24-11	6	12	A	35	110	250	325
	3	8					
24-12	3	2	A	80	110	250	280
	2	4					
24-15	16	16	A	24-5 Insert rotated 100 Degrees in Shell			
24-16	3	16	D (A,B,F)	80	110	250	280
	3	12	A (Bal)				
	1	8	D (G)				
24-18	4	16	---	---	A-B & C-D Short without Pins??		
24-20	9	16	D	80	110	250	280
	2	12					
24-21	9	16	D	80	110	250	280
	1	8					
24-22	4	8	D	45	110	250	---
24-24	16	16	A	24-5 Insert rotated 250 Degrees in Shell			
24-27	7	16	E	80	---	---	280
24-28	24	16	INST	80	110	250	280
24-80	23	16	INST	35	145	240	300

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SERIES II & III



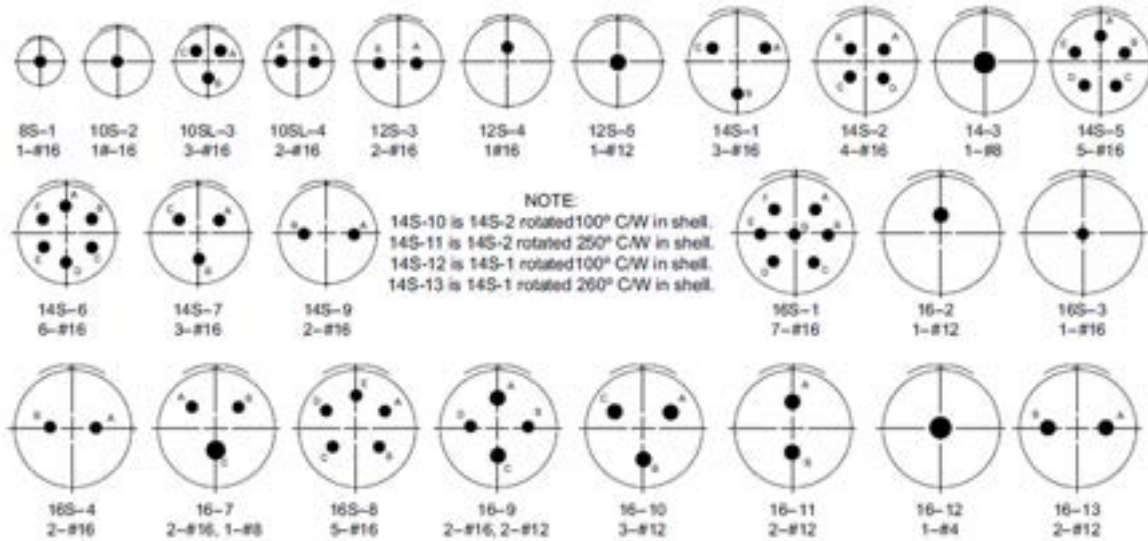
Shell Size 28							
28-1	2	12	D (A,E)	80	110	250	280
	4	12	A (B,D,F,H)				
	1	8	D (J)				
	2	8	A (G,C)				
28-2	12	16	D	35	110	250	325
	2	12					
28-3	3	8	E	70	145	215	290
28-4	4	16	E (G,P,S)	80	110	250	280
	4	16	D (A,B,E,F)				
	2	12	D (C,D)				
28-5	2	16	D	35	110	250	325
	1	12					
	2	4					
28-6	3	4	D	70	145	215	290
28-8	1	16	D (B)	80	110	250	280
	9	16	A (Bal)				
	2	12	E (L,M)				
28-9	6	16	D	80	110	250	280
	6	12					
28-10	1	12	D (G)	80	110	250	280
	2	12	A (A,F)				
	2	8	A (B,E)				
	2	4	A (C,D)				
28-11	18	16	A	80	110	250	280
	4	12					
28-12	26	16	A	90	180	270	---
28-15	35	16	A	80	110	250	280
28-16	20	16	A	80	110	250	280
28-17	1	16	B (R)	80	110	250	280
	3	16	D (M,N,P)				
	11	16	A (Bal)				
28-18	1	16	C (M)	70	145	215	290
	2	16	A (A,B)				
	4	16	INST (C,D,E,F)				
	5	16	D (Bal)				
28-19	2	16	B (H,M)	80	110	250	280
	2	16	D (A,B)				
	2	16	A (C,L)				
	4	12	A (E,G,J,K)				

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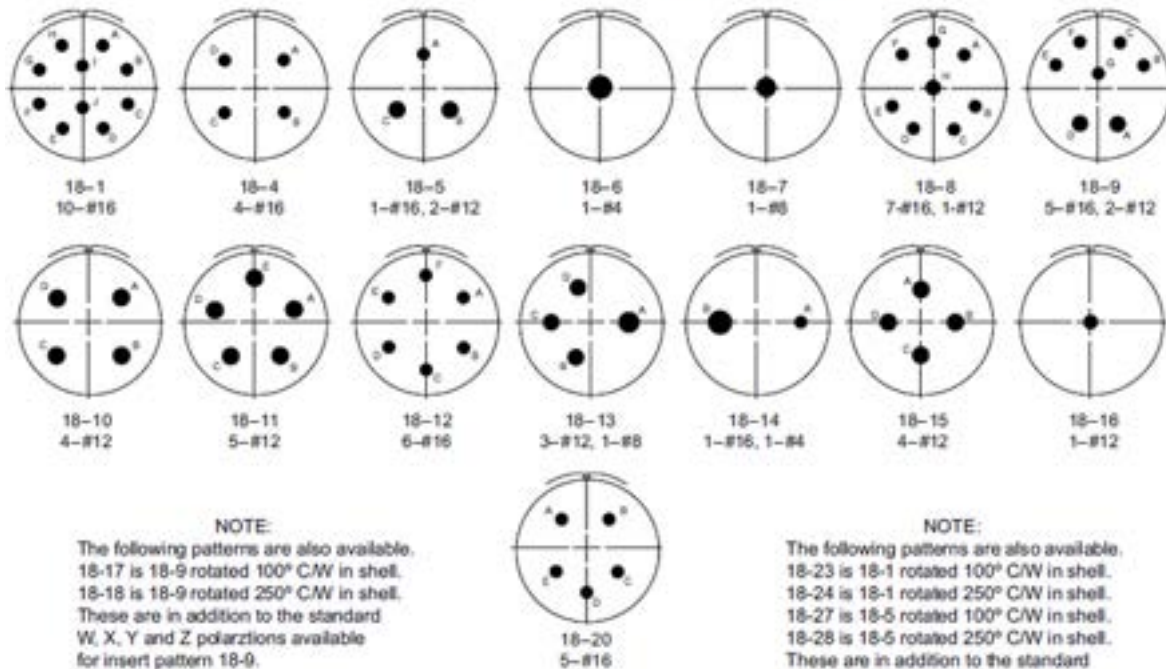
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MIL-DTL-5015 SERIES III INSERT PATTERNS PER MIL-STD-1651
CAVITY IDENTIFICATION SHOWN FOR FRONT FACE
OF PIN AND REAR FACE OF SOCKET INSERTS

SHELL SIZES 8, 10, 12, 14 AND 16 INSERT PATTERNS

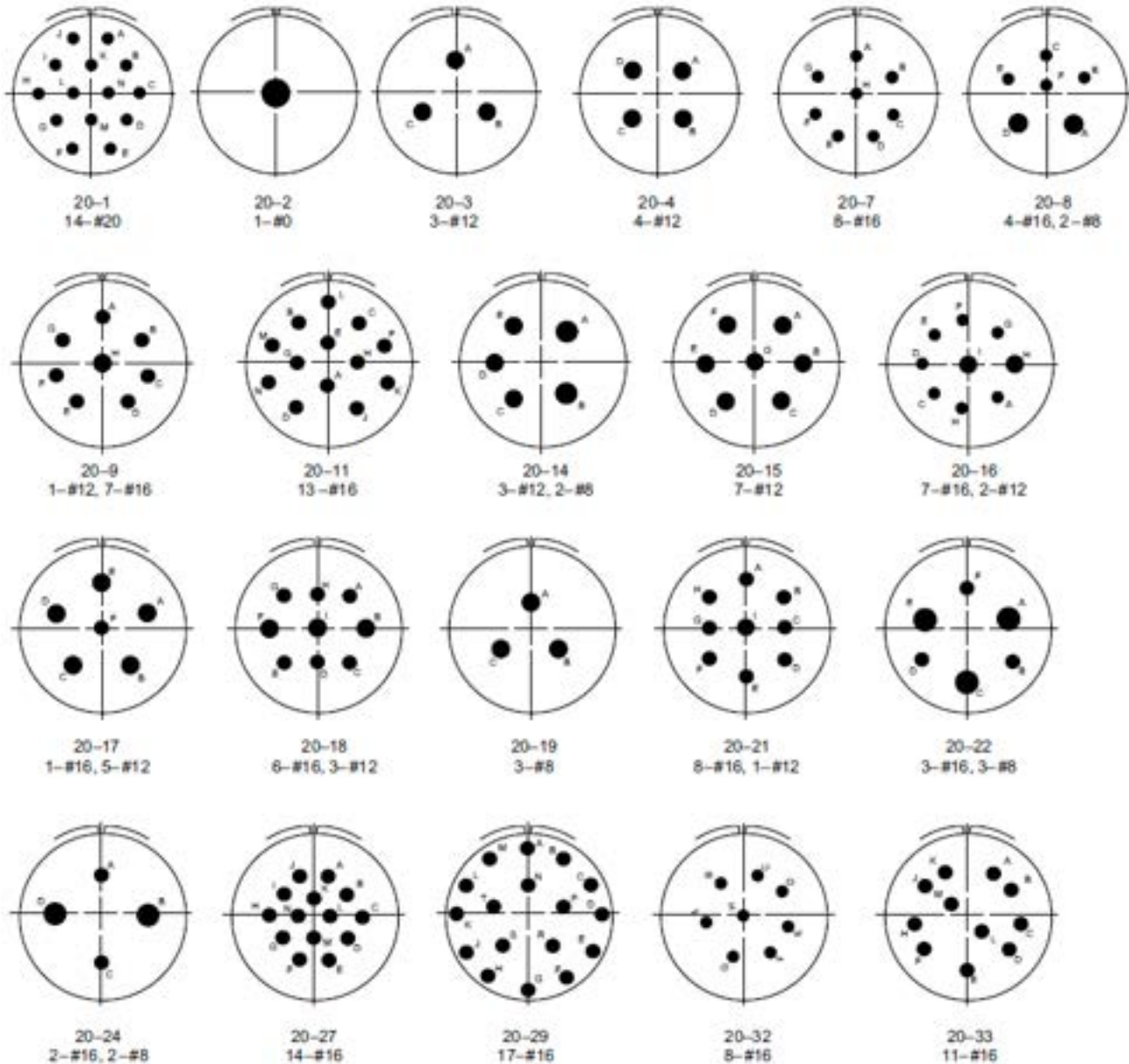


SHELL SIZES 18 INSERT PATTERNS



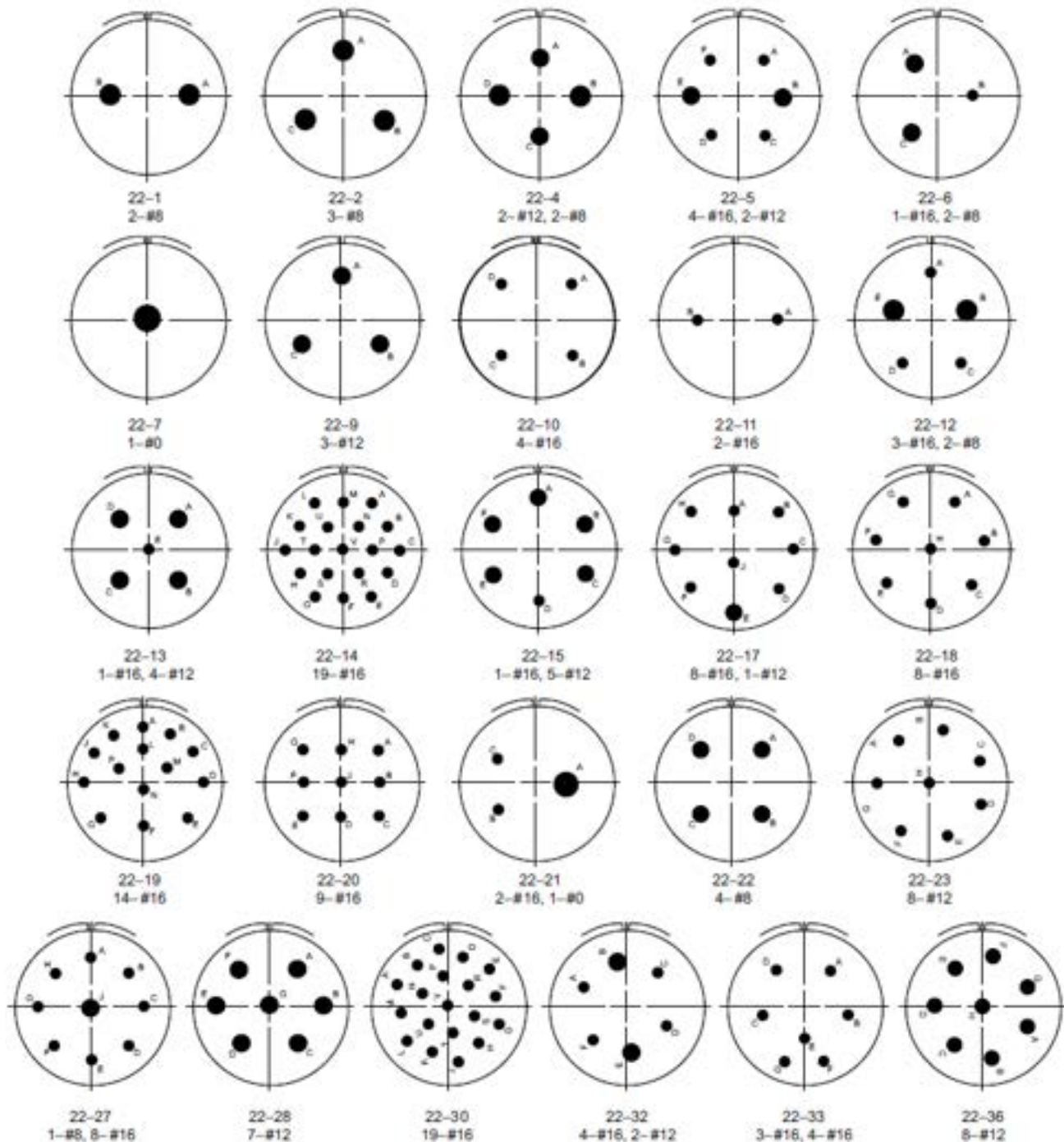
MIL-DTL-5015 SERIES III INSERT PATTERNS PER MIL-STD-1651
CAVITY IDENTIFICATION SHOWN FOR FRONT FACE
OF PIN AND REAR FACE OF SOCKET INSERTS

SHELL SIZE 20 INSERT PATTERNS



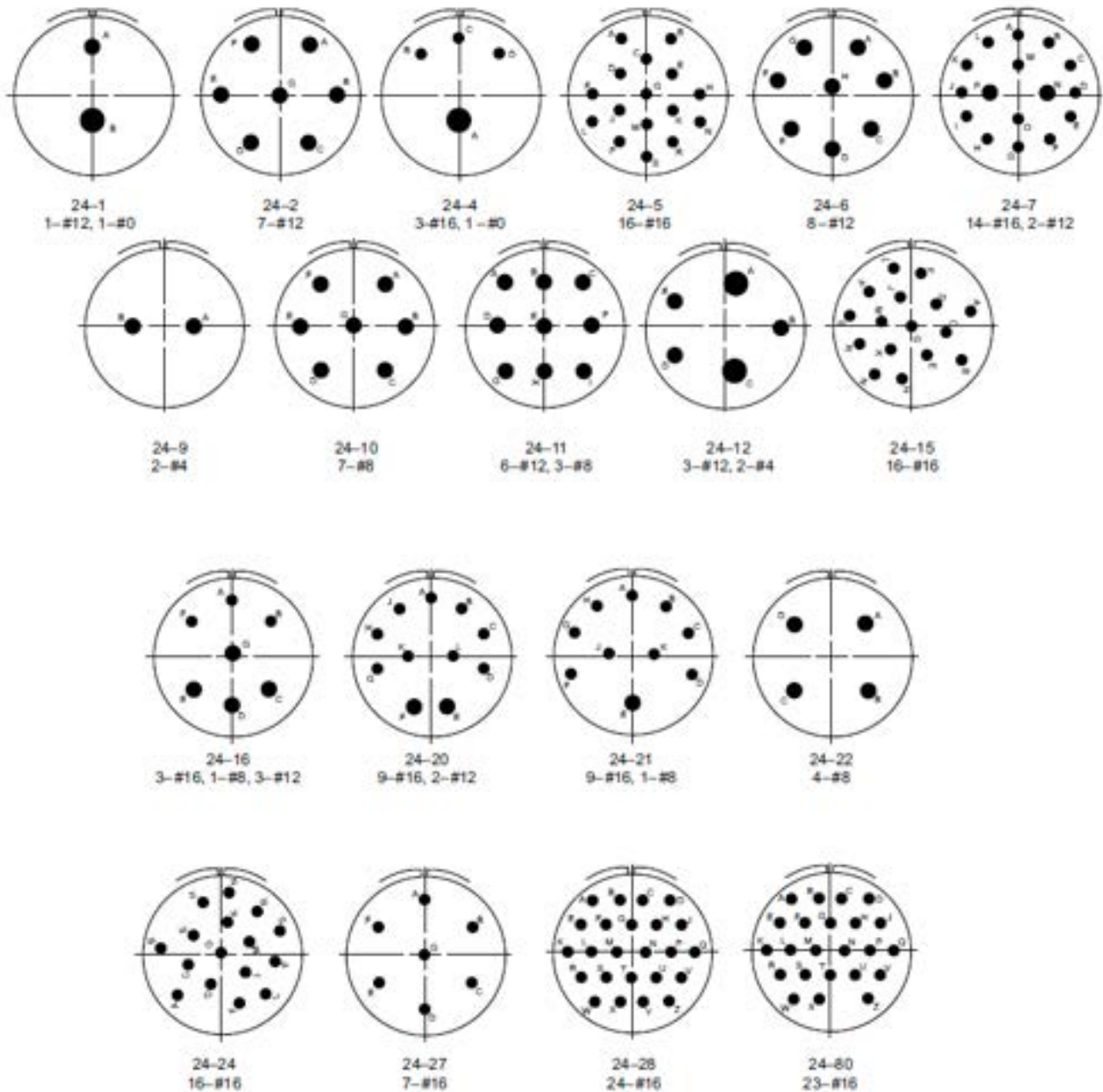
MIL-DTL-5015 SERIES III INSERT PATTERNS PER MIL-STD-1651
CAVITY IDENTIFICATION SHOWN FOR FRONT FACE
OF PIN AND REAR FACE OF SOCKET INSERTS

SHELL SIZE 22 INSERT PATTERNS



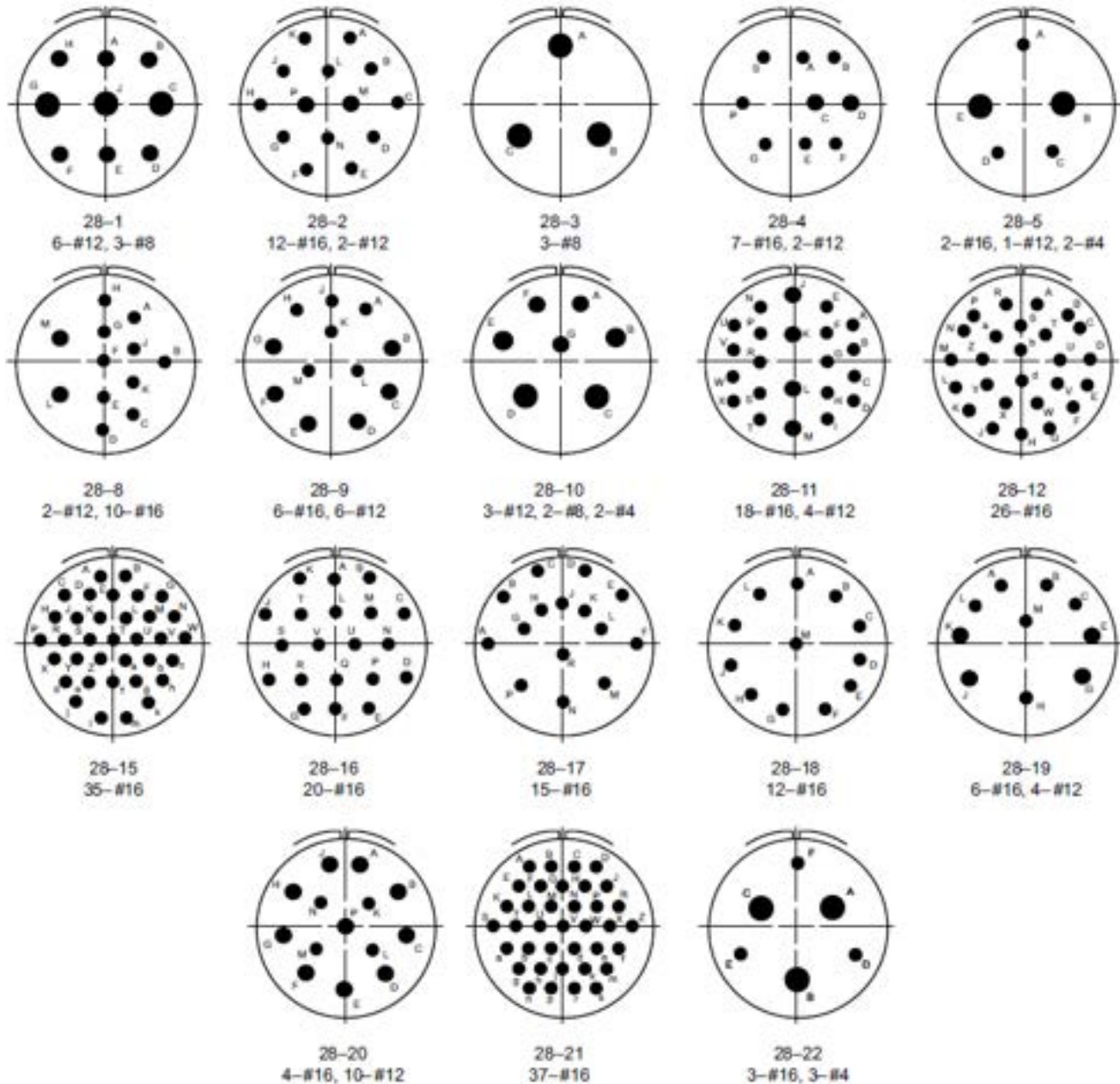
MIL-DTL-5015 SERIES III INSERT PATTERNS PER MIL-STD-1651
CAVITY IDENTIFICATION SHOWN FOR FRONT FACE
OF PIN AND REAR FACE OF SOCKET INSERTS

SHELL SIZE 24 INSERT PATTERNS



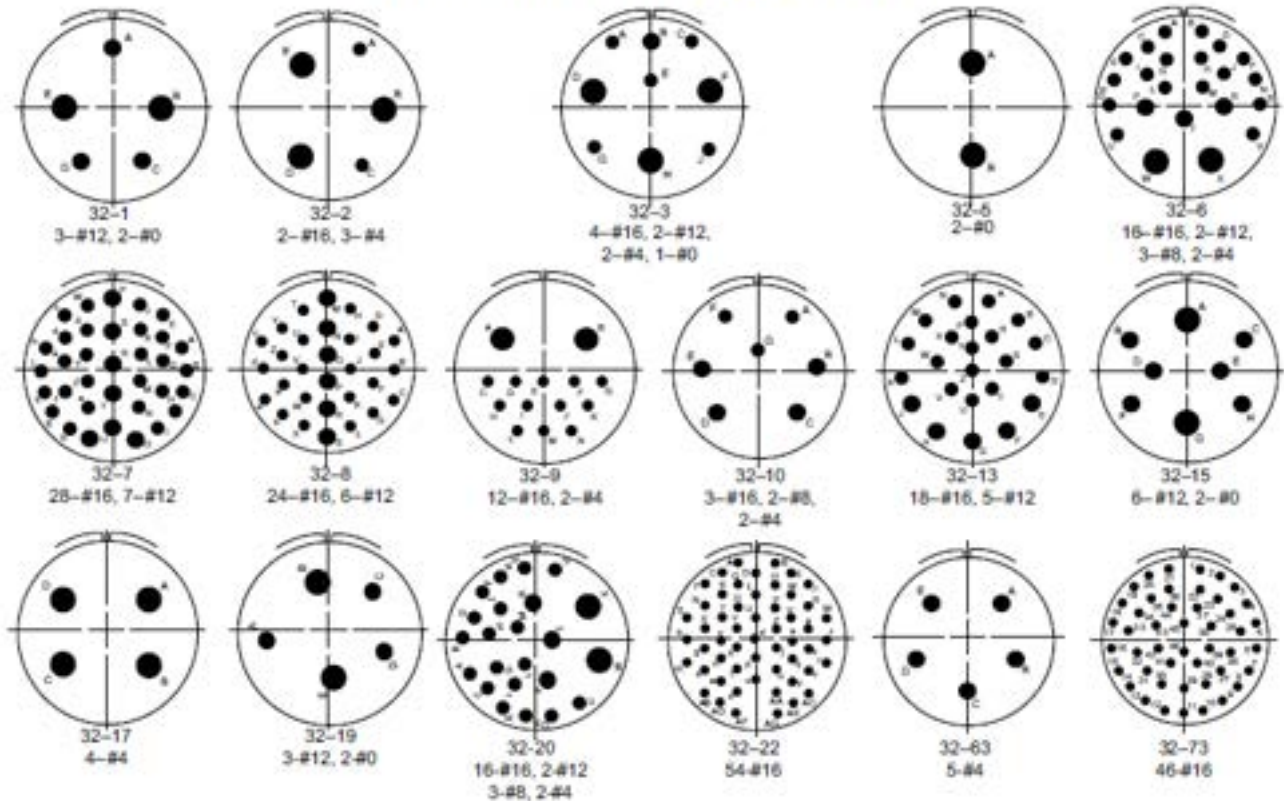
MIL-DTL-5015 SERIES III INSERT PATTERNS PER MIL-STD-1651
CAVITY IDENTIFICATION SHOWN FOR FRONT FACE
OF PIN AND REAR FACE OF SOCKET INSERTS

SHELL SIZE 28 INSERT PATTERNS

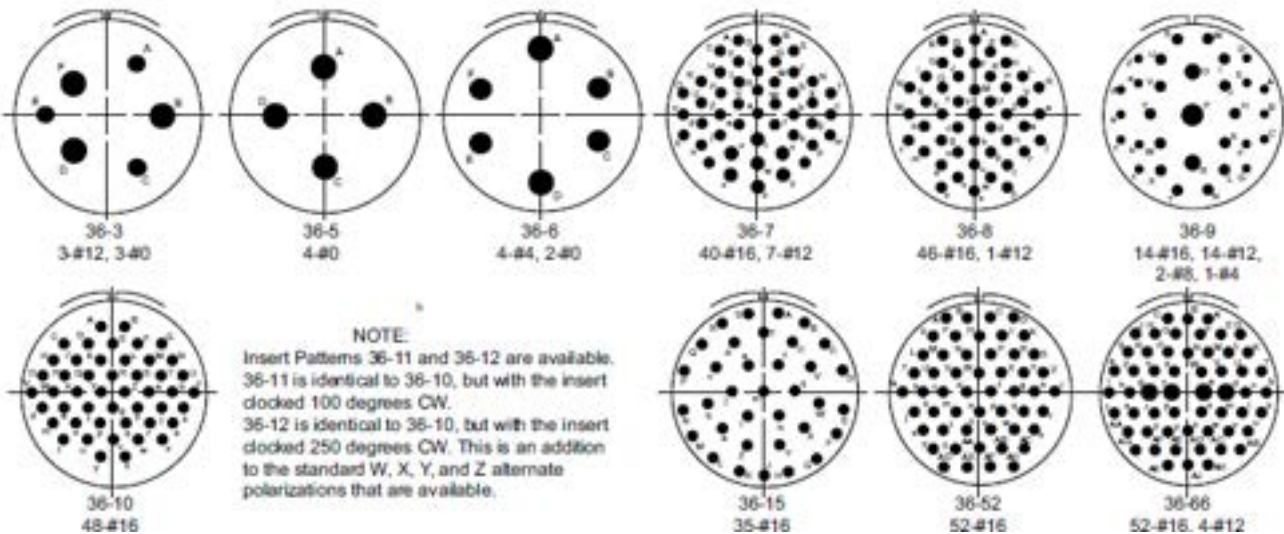


MIL-DTL-5015 SERIES III INSERT PATTERNS
CAVITY IDENTIFICATION SHOWN FOR FRONT FACE
OF PIN AND REAR FACE OF SOCKET INSERTS

SHELL SIZE 32 INSERT PATTERNS

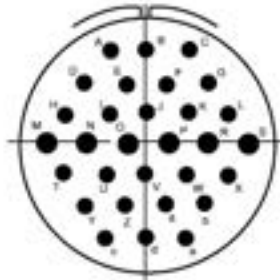


SHELL SIZE 36 INSERT PATTERNS

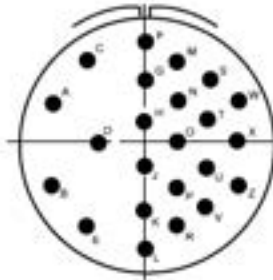


MIL-DTL-5015 SERIES III INSERT PATTERNS PER MIL-STD-1651
CAVITY IDENTIFICATION SHOWN FOR FRONT FACE
OF PIN AND REAR FACE OF SOCKET INSERTS

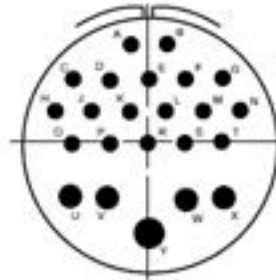
SHELL SIZE 40 INSERT PATTERNS



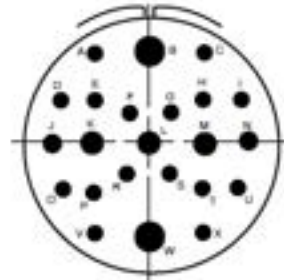
40-1
24-#16, 6-#12



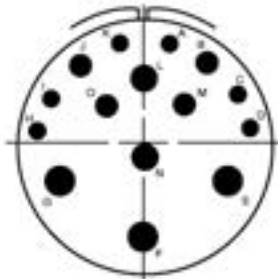
40-2
23-#16



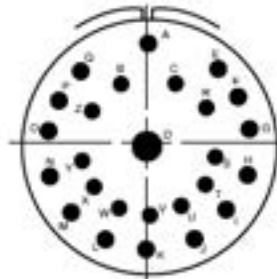
40-3
18-#16, 4-#12, 1-#4



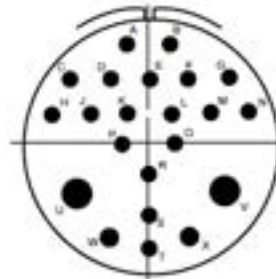
40-4
16-#16, 2-#12,
3-#8, 2-#4



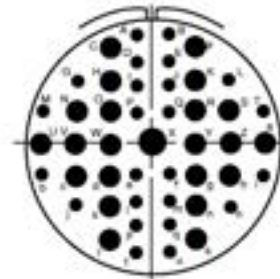
40-5
6-#12, 4-#8,
2-#4, 3-#0



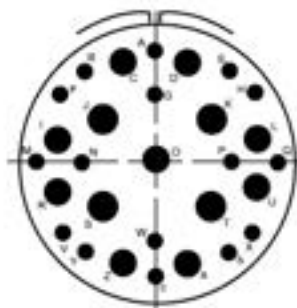
40-6
24-#16, 1-#12, 1-#0



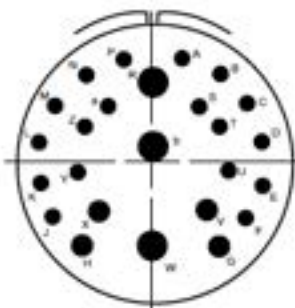
40-7
18-#16, 2-#12, 2-#0



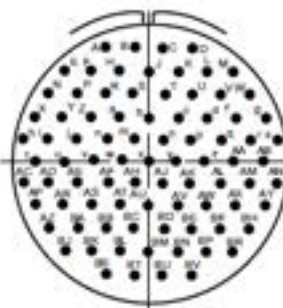
40-9
24-#16, 22-#12, 1-#8



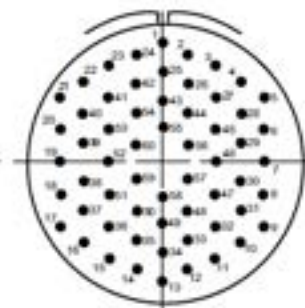
40-10
16-#16, 9-#8, 4-#4



40-11
18-#16, 4-#12,
1-#8, 1-#4, 1-#0



40-56
85-#16



40-62
60-#16