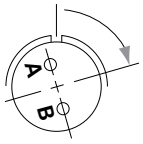
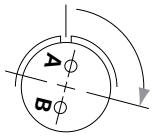
Selecting Your Insert Arrangement & Rotation

Below is a chart that represents every available shell and insert arrangement within the series. To choose the proper insert arrangement, you must first distinguish your application requirements for contact size and amount.

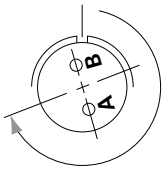
Rotations are designated at the time of ordering using rotation labels N (normal), W, X, Y, and Z. Some insert arrangements have limited or no alternate rotation options. Refer to the chart below for possible rotations for specific arrangements. ■



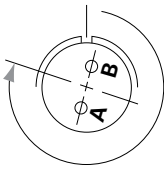
Position W



Position X



Position Y



Position Z

Looking into front face of pin insert or rear of socket insert.

Insert Arrangement Selection

Insert Arrangement	Total Contacts	Contact Size					Service Rating	Alternate Insert Rotation			
		#16	#12	#8	#4	#0		W	X	Y	Z
10SL-3	3	3					A				
10SL-4	2	2					A	63°			
12-5	1		1				A				
12S-3	2	2					A	70°	145°	215°	290°
14S-1	3	3					A				
14S-2	4	4					Inst.		120°	240°	
14S-4	1	1					D				
14S-5	5	5					Inst.		110°		
14S-6	6	6					Inst.				
14S-7	3	3					A	90°	180°	270°	
14S-9	2	2					A	70°	145°	215°	290°
16-7	3	2		1			A	80°	110°	250°	280°
16-9	4	2	2				A	35°	110°	250°	325°
16-10	3		3				A	90°	180°	270°	
16-11	2		2				A	35°	110°	250°	325°
16-12	1				1		A				
16S-1	7	7					A	80°			280°
16S-4	2	2					D	35°	110°	250°	325°
16S-5	3	3					A	70°	145°	215°	290°
16S-6	3	3					A	90°	180°	270°	
16S-8	5	5					A		170°	265°	
18-1	10	10					A/Inst.	70°	145°	215°	290°
18-3	2		2				D	35°	110°	250°	325°
18-4	4	4					D	35°	110°	250°	325°
18-5	3	1	2				D	80°	110°	250°	280°
18-8	8	7	1				A	70°			290°
18-9	7	5	2				Inst.	80°	110°	250°	280°
18-10	4		4				A		120°	240°	
18-11	5		5				A		170°	265°	
18-12	6	6					A	80°			280°
18-13	4		3	1			A	80°	110°	250°	280°
18-16	1		1				C				

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(Continued on next page)

Insert Arrangement Selection (Continued from previous page)

Insert Arrangement	Total Contacts	Contact Size					Service Rating	Insert Rotation			
		#16	#12	#8	#4	#0		W	X	Y	Z
18-19	10	10					A				
18-22	3	3					0	70°	145°	215°	290°
20-2	1					1	D				
20-3	3		3				D	70°	145°	215°	290°
20-4	4		4				D	45°	110°	250°	
20-7	8	8					D/A	80°	110°	250°	280°
20-8	6	4		2			Inst.	80°	110°	250°	280°
20-11	13	13					Inst.				
20-14	5		3	2			A	80°	110°	250°	280°
20-15	7		7				A	80°			280°
20-16	9	7	2				A	80°	110°	250°	280°
20-17	6	1	5				A	90°	180°	270°	
20-18	9	6	3				A	35°	110°	250°	325°
20-19	3			3			A	90°	180°	270°	
20-22	6	3		3			A	80°	110°	250°	280°
20-23	2			2			A	35°	110°	250°	325°
20-24	4	2		2			A	35°	110°	250°	325°
20-27	14	14					A	35°	110°	250°	325°
20-29	17	17					A	80°			280°
20-33	11	11					A				
22-1	2			2			D	35°	110°	250°	325°
22-2	3			3			D	70°	145°	215°	290°
22-5	6	4	2				D	35°	110°	250°	325°
22-6	3	1		2			D	80°	110°	250°	280°
22-7	1					1	E				
22-8	2		2				E	35°	110°	215°	325°
22-9	3		3				E	70°	145°	250°	290°
22-11	2	2					B	35°	110°	250°	325°
22-12	5	3		2			D	80°	110°	250°	280°
22-13	5	1	4				D/A	35°	110°	250°	325°
22-14	19	19					A	80°	110°	250°	280°
22-15	6	1	5				E/A	80°	110°	250°	280°
22-18	8	8					D/A	80°	110°	250°	280°
22-19	14	14					A	80°	110°	250°	280°
22-20	9	9					A	35°	110°	250°	325°
22-21	3	2				1	A	80°	110°	250°	280°
22-22	4			4			A		110°	250°	
22-23	8		8				D/A	35°		250°	
22-28	7		7				A	80°			280°
22-33	7	7					D/A	80°	110°	250°	280°
24-2	7		7				D	80°			280°
24-5	16	16					A	80°	110°	250°	280°
24-6	8		8				D/A	80°	110°	250°	280°
24-7	16	14	2				A	80°	110°	250°	280°
24-9	2				2		A	35°	110°	250°	325°
24-10	7			7			A	80°			280°
24-11	9		6	3			A	35°	110°	250°	325°

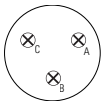
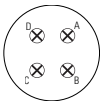
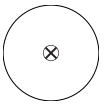
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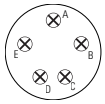
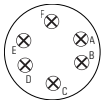
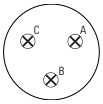
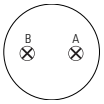
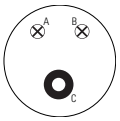
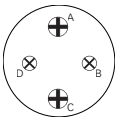
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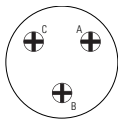
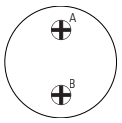
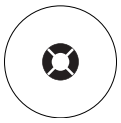
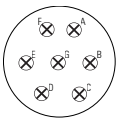
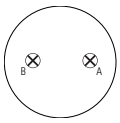
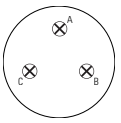
Insert Arrangement Selection (Continued from previous page)

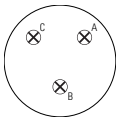
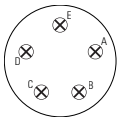
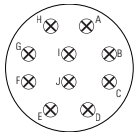
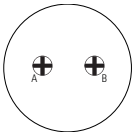
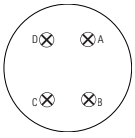
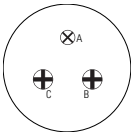
Insert Arrangement	Total Contacts	Contact Size					Service Rating	Insert Rotation			
		#16	#12	#8	#4	#0		W	X	Y	Z
24-12	5		3		2		A	80°	110°	250°	280°
24-20	11	9	2				D	80°	110°	250°	280°
24-21	10	9		1			D	80°	110°	250°	280°
24-22	4			4			D	45°	110°	250°	
24-27	7	7					E	80°			280°
24-28	24	24					Inst.	80°	110°	250°	280°
28-1	9		6	3			D/A	80°	110°	250°	280°
28-2	14	12	2				D	35°	110°	250°	325°
28-3	3			3			E	70°	145°	215°	290°
28-5	5	2	1		2		D	35°	110°	250°	325°
28-6	3				3		D	70°	145°	215°	290°
28-7	2				2		D	35°	110°	250°	325°
28-8	12	10	2				E/D/A	80°	110°	250°	280°
28-9	12	6	6				D	80°	110°	250°	280°
28-10	7		3	2	2		D/A	80°	110°	250°	280°
28-11	22	18	4				A	80°	110°	250°	280°
28-12	26	26					A	90°	180°	270°	
28-15	35	35					A	80°	110°	250°	280°
28-16	20	20					A	80°	110°	250°	280°
28-17	15	15					B/D/A	80°	110°	250°	280°
28-18	12	12					C/D/A/Inst.	70°	145°	215°	290°
28-19	10	6	4				B/D/A	80°	110°	250°	280°
28-20	14	4	10				A	80°	110°	250°	280°
28-21	37	37					A	80°	110°	250°	280°
28-22	6	3			3		D	70°	145°	250°	290°
32-1	5		3			2	E/D	80°	110°	250°	280°
32-2	5	2			3		E	70°	145°	215°	290°
32-3	9	4	2		2	1	D	80°	110°	250°	280°
32-5	2					2	D	35°	110°	250°	325°
32-6	23	16	2	3	2		A	80°	110°	250°	280°
32-7	35	28	7				Inst./A	80°	125°	235°	280°
32-8	30	24	6				A	80°	125°	235°	280°
32-9	14	12			2		D	80°	110°	250°	280°
32-13	23	18	5				D	80°	110°	250°	280°
32-15	8		6			2	D	35°	110°	250°	280°
32-17	4				4		D	45°	110°	250°	
36-3	6		3			3	D	70°	145°	215°	290°
36-4	3					3	D/A	70°	145°	215°	290°
36-5	4					4	A		120°	240°	
36-6	6				4	2	A	35°	110°	250°	325°
36-7	47	40	7				A	80°	110°	250°	280°
36-8	47	46	1				A	80°	110°	250°	280°
36-9	31	14	14	2	1		A	80°	125°	235°	280°
36-10	48	48					A	80°	125°	235°	280°
36-14	16	6	5	5			D	90°	180°	270°	
36-15	35	35					D/A	60°	125°	245°	305°
36-52	52	52					A				

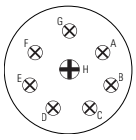
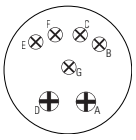
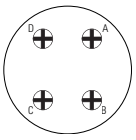
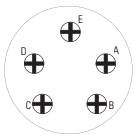
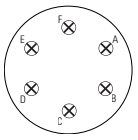
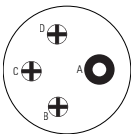
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Arrangement	**10SL-3**	**10SL-4**	**12-5**	**12S-3**	**14S-1**	**14S-2**	**14S-4**
Service Rating	A	A	A	A	A	Inst.	D
Number of Contacts	3 x #16	2 x #16	1 x #12	2 x #16	3 x #16	4 x #16	1 x #16

						
14S-5	**14S-6**	**14S-7**	**14S-9**	**16-7**	**16-9**	
Inst.	Inst.	A	A	A	A	
5 x #16	6 x #16	3 x #16	2 x #16	1 x #8 2 x #16	2 x #12 2 x #16	

						
16-10	**16-11**	**16-12**	**16S-1**	**16S-4**	**16S-5**	
A	A	A	A	D	A	
3 x #12	2 x #12	1 x #4	7 x #16	2 x #16	3 x #16	

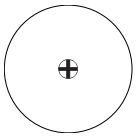
						
16S-6	**16S-8**	**18-1**	**18-3**	**18-4**	**18-5**	
A	A	B,C,F,G=A; Bal.=Inst.	D	D	D	
3 x #16	5 x #16	10 x #16	2 x #12	4 x #16	2 x #12 1 x #16	

						
18-8	**18-9**	**18-10**	**18-11**	**18-12**	**18-13**	
A	Inst.	A	A	A	A	
1 x #12 7 x #16	2 x #12 5 x #16	4 x #12	5 x #12	6 x #16	1 x #8 3 x #12	

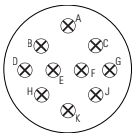
Contact Legend #0 #4 #8 #10 #12 #16

(Continued on next page)

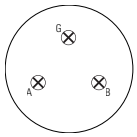
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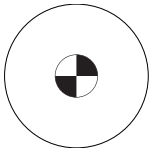
18-16
C
1 x #12



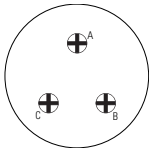
18-19
A
10 x #16



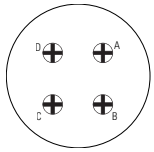
18-22
D
3 x #16



20-2
D
1 x #0

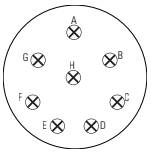


20-3
D
3 x #12

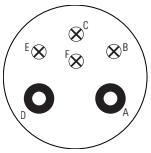


20-4
D
4 x #12

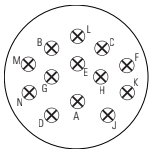
Arrangement
Service Rating
Number of Contacts



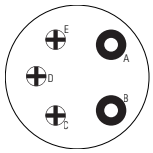
20-7
A,B,H,G=D; C,D,E,F=A
8 x #16



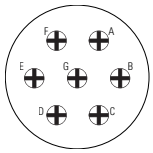
20-8
Inst.
2 x #8; 4 x #16



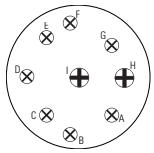
20-11
Inst.
13 x #16



20-14
A
2 x #8
3 x #12

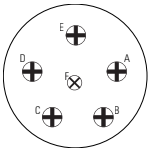


20-15
A
7 x #12

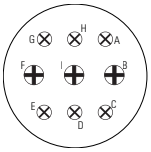


20-16
A
2 x #12
7 x #16

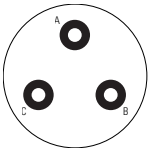
Arrangement
Service Rating
Number of Contacts



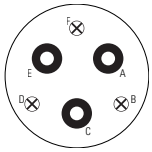
20-17
A
5 x #12
1 x #16



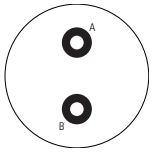
20-18
A
3 x #12
6 x #16



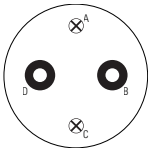
20-19
A
3 x #8



20-22
A
3 x #8
3x #16

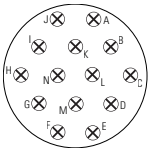


20-23
A
2 x #8

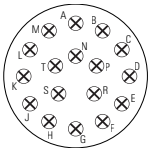


20-24
A
2 x #8
2 x #16

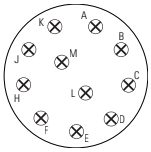
Arrangement
Service Rating
Number of Contacts



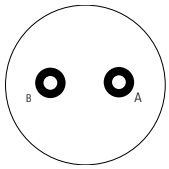
20-27
A
14 x #16



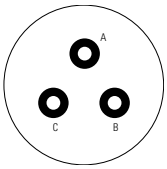
20-29
A
17 x #16



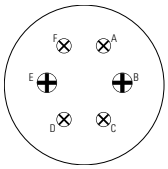
20-33
A
11 x #16



22-1
D
2 x #8



22-2
D
3 x #8

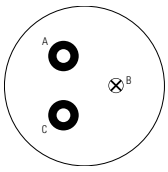
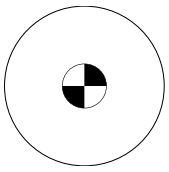
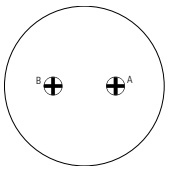
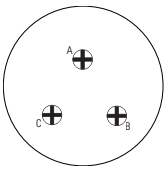
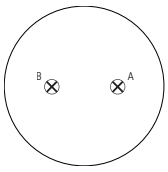
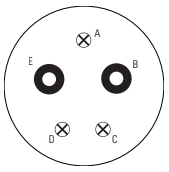
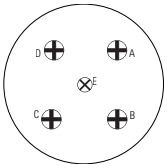
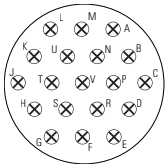
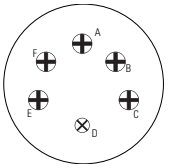
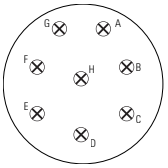
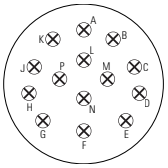
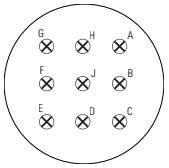
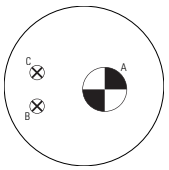
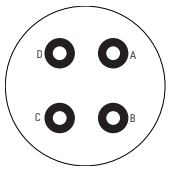
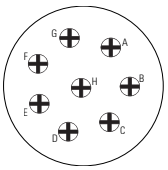
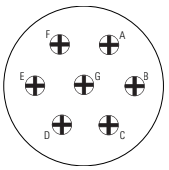
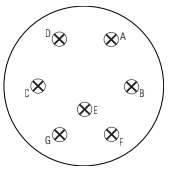
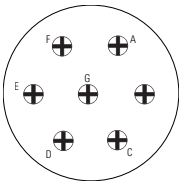
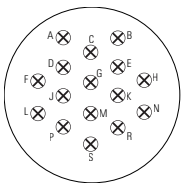
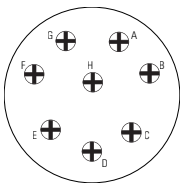
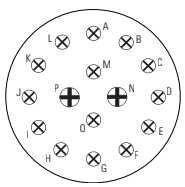
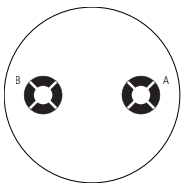
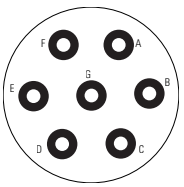


22-5
D
2 x #12
4 x #16

Arrangement
Service Rating
Number of Contacts

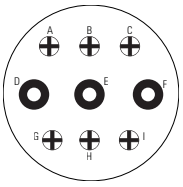
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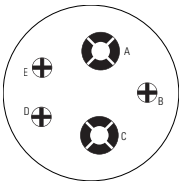
						
Arrangement	**22-6**	**22-7**	**22-8**	**22-9**	**22-11**	**22-12**
Service Rating	D	E	E	E	B	D
Number of Contacts	2 x #8 1 x #16	1 x #0	2 x #12	3 x #12	2 x #16	2 x #8 3 x #16
						
Arrangement	**22-13**	**22-14**	**22-15**	**22-18**	**22-19**	**22-20**
Service Rating	E=D; A,B,C,D=A	A	D=E; A,B,C,E,F=A	A,B,F,G,H=D; C,D,E=A	A	A
Number of Contacts	4 x #12 1 x #16	19 x #16	5 x #12 1 x #16	8 x #16	14 x #16	9 x #16
						
Arrangement	**22-21**	**22-22**	**22-23**	**22-28**	**22-33**	**24-2**
Service Rating	A	A	H=D; Bal.=A	A	A,B,C,D=D; E,F,G=A	D
Number of Contacts	1 x #0 2 x #16	4 x #8	8 x #12	7 x #12	7 x #16	7 x #12
						
Arrangement	**24-5**	**24-6**	**24-7**	**24-9**	**24-10**	
Service Rating	A	A,G,H=D; Bal.= A	A	A	A	
Number of Contacts	16 x #16	8 x #12	2 x #12 14 x #16	2 x #4	7 x #8	

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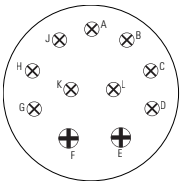
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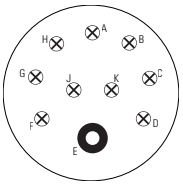
24-11
A
3 x #8
6 x #12



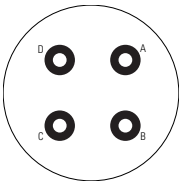
24-12
A
2 x #4
3 x #12



24-20
D
2 x #12
9 x #16

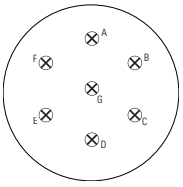


24-21
D
1 x #8
9 x #16

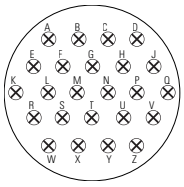


24-22
D
4 x #8

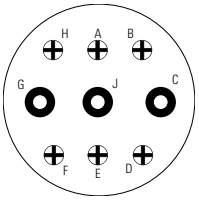
Arrangement
Service Rating
Number of Contacts



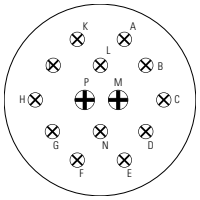
24-27
E
7 x #16



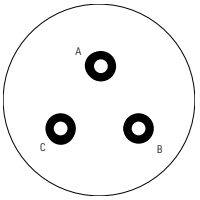
24-28
Inst.
24 x #16



28-1
A,J,E=D; Bal.=A
3 x #8
6 x #12

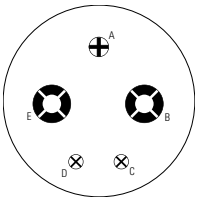


28-2
D
2 x #12
12 x #16

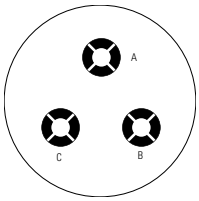


28-3
E
3 x #8

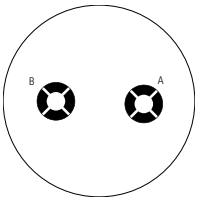
Arrangement
Service Rating
Number of Contacts



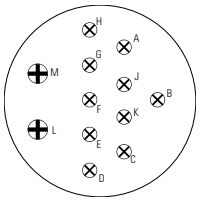
28-5
D
2 x #4
1 x #12
2 x #16



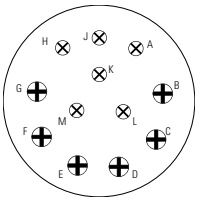
28-6
D
3 x #4



28-7
D
2 x #4

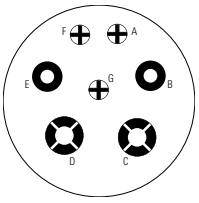


28-8
L,M=E; B=D; Bal.=A
2 x #12
10 x #16

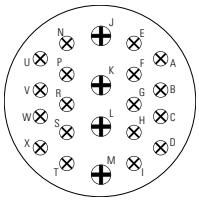


28-9
D
6 x #12
6 x #16

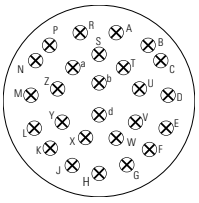
Arrangement
Service Rating
Number of Contacts



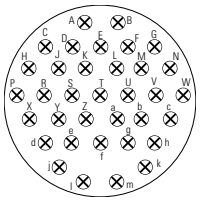
28-10
G=D; Bal.= A
2 x #4
2 x #8
3 x #12



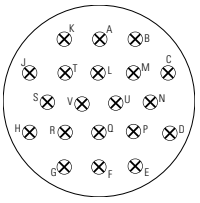
28-11
A
4 x #12
18 x #16



28-12
A
26 x #16



28-15
A
35 x #16

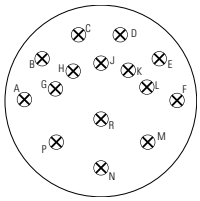


28-16
A
20 x #16

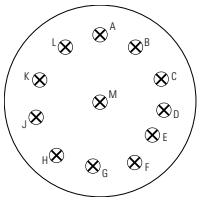
Arrangement
Service Rating
Number of Contacts

(Continued on next page)

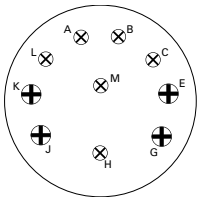
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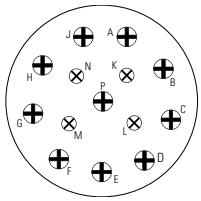
Arrangement	**28-17**
Service Rating	R=B; M,N,P=D; A to L =A
Number of Contacts	15 x #16



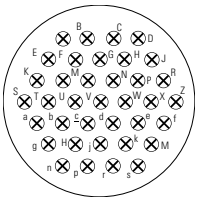
Arrangement	**28-18**
Service Rating	M=C; G,H,J,K,L= D;
Number of Contacts	A,B=A; Bal.=Inst. 12 x #16



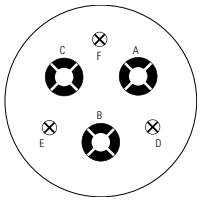
Arrangement	**28-19**
Service Rating	H,M=B; A,B=D; Bal.=A.
Number of Contacts	4 x #12 6 x #16



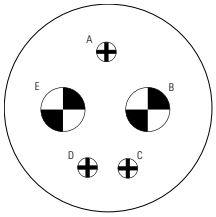
Arrangement	**28-20**
Service Rating	A
Number of Contacts	10 x #12 4 x #16



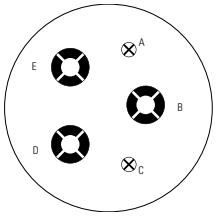
Arrangement	**28-21**
Service Rating	A
Number of Contacts	37 x #16



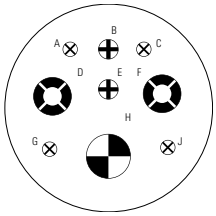
Arrangement	**28-22**
Service Rating	D
Number of Contacts	3 x #4 3 x #16



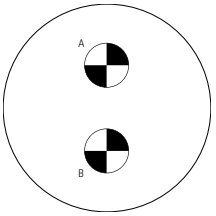
Arrangement	**32-1**
Service Rating	A=E; B,C,D,E=D
Number of Contacts	2 x #0 3 x #12



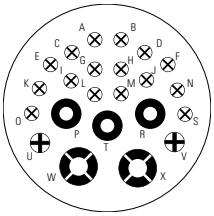
Arrangement	**32-2**
Service Rating	E
Number of Contacts	3 x #4 2 x #16



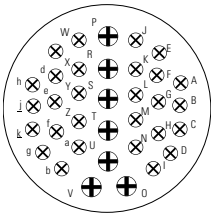
Arrangement	**32-3**
Service Rating	D
Number of Contacts	1 x #0; 2 x #4 2 x #12; 4 x #16



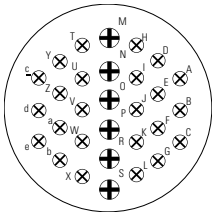
Arrangement	**32-5**
Service Rating	D
Number of Contacts	2 x #0



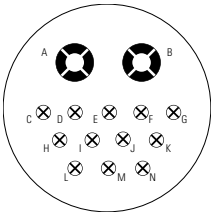
Arrangement	**32-6**
Service Rating	A
Number of Contacts	2 x #4; 3 x #8 2 x #12; 16 x #16



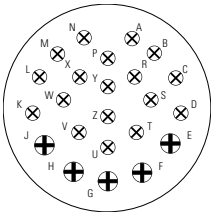
Arrangement	**32-7**
Service Rating	A,B,H,J=Inst.; Bal.=A
Number of Contacts	7 x #12 28 x #16



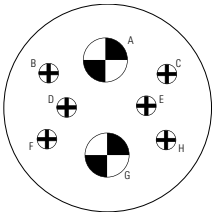
Arrangement	**32-8**
Service Rating	A
Number of Contacts	6 x #12 24 x #16



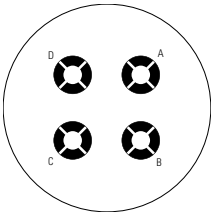
Arrangement	**32-9**
Service Rating	D
Number of Contacts	2 x #4 12 x #16



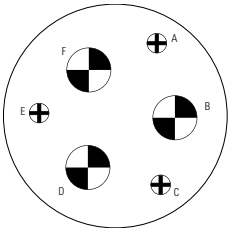
Arrangement	**32-13**
Service Rating	D
Number of Contacts	5 x #12 18 x #16



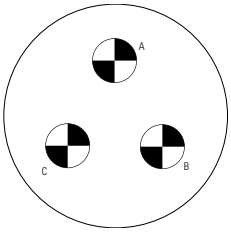
Arrangement	**32-15**
Service Rating	D
Number of Contacts	2 x #0 6 x #12



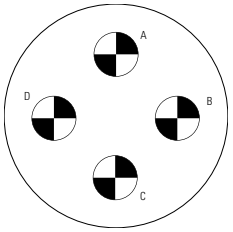
Arrangement	**32-17**
Service Rating	D
Number of Contacts	4 x #4



Arrangement	**36-3**
Service Rating	D
Number of Contacts	3 x #0 3 x #12



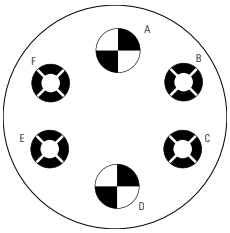
Arrangement	**36-4**
Service Rating	A=D; B,C=A
Number of Contacts	3 x #0



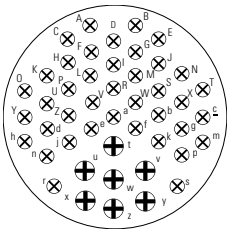
Arrangement	**36-5**
Service Rating	A
Number of Contacts	4 x #0

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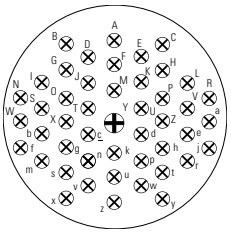
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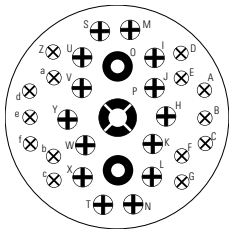
36-6
A
2 x #0
4 x #4



36-7
A
7 x #12
40 x #16

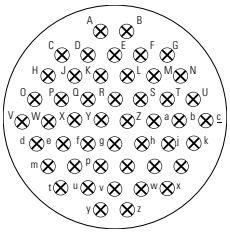


36-8
A
1 x #12
46 x #16

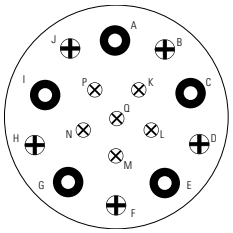


36-9
A
1 x #4; 2 x #8
14 x #12; 14 x #16

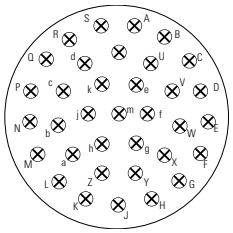
Arrangement
Service Rating
Number of Contacts



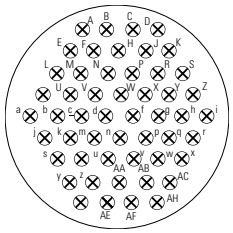
36-10
A
46 x #16



36-14
D
5 x #8; 5 x #12;
6 x #16



36-15
M=D; Bal.=A
35 x #16



36-52
A
52 x #16

Arrangement
Service Rating
Number of Contacts

Contact Legend #0 #4 #8 #10 #12 #16

PM

SIZE MATTERS



Widest Selection of Shell Sizes

With a dozen shell sizes to choose from, and 126 insert arrangements, the PM Series of ruggedized solder connectors can meet any application's unique wiring requirements.

To show the full range of sizes available, we have shown above at 1:1 scale the PM Series plugs in the massive size 36 shell (right) and the size 10 for comparison.