

Insert Arrangements

DS Series • MIL-DTL-38999 Series II Style Connectors

Selecting Your Insert Arrangement

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 quantity.

Each insert arrangement has a unique number to identify its size and contact arrangement. The first number is the shell size. The second number is the contact arrangement. It does not, however, always equal the total number of contacts. ■

Insert Arrangement Selection

Insert Arrangement	Total Contacts	Hermetic Available	Service Rating	Contact Size					
				#22D	#22M	#22	#20	#16	#12
8-2 ⁺	2		M				2		
8-3 ⁺	3		M				3		
8-6	6		M		6				
8-35	6	✓	M	6					
8-44	4		M			4			
8-97 ⁺	4		M		2		2		
8-98	3	✓	I				3		
10-4	4		I				4		
10-5	5	✓	I				5		
10-13	13		M		13				
10-35	13	✓	M	13					
10-98	6		I				6		
10-99	7		I				7		
12-3	3		II					3	
12-4	4		I					4	
12-8	8		I				8		
12-22	22		M		22				
12-35	22	✓	M	22					
12-98	10	✓	I				10		
14-4 ⁺	4		I						4
14-5	5	✓	II					5	
14-15	15		I				14	1	
14-18	18	✓	I				18		
14-19 ⁺	19	✓	I				19		
14-35	37	✓	M	37					
14-37	37		M		37				
14-68 ⁺	8		I					8	
14-97	12	✓	I				8	4	
16-6	6	✓	I						6
16-8	8	✓	II					8	
16-13 ⁺	13		I					13	
16-26	26		I				26		
16-35	55	✓	M	55					
16-42	42		M			42			
16-55	55		M		55				
16-99	23	✓	I				21	2	
18-11	11		II					11	
18-28	28		I				26	2	
18-30	30		I				29	1	
18-32	32	✓	I				32		
18-35	66	✓	M	66					

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Insert Arrangement Selection (Continued from previous page)

Insert Arrangement	Total Contacts	Hermetic Available	Service Rating	Contact Size					
				#22D	#22M	#22	#20	#16	#12
18-53	53		M			53			
18-66	66		M		66				
18-68 [‡]	18		I					18	
18-96 [‡]	9		I						9
20-1	79		M		79				
20-2	65		M			65			
20-11 [‡]	11		I						11
20-16	16		II					16	
20-35	79	✓	M	79					
20-39	39	✓	I				37	2	
20-41	41	✓	I				41		
22-1	100		M		100				
22-2	85		M			85			
22-14 [‡]	14		I						14
22-21	21	✓	II					21	
22-32	32		I				32		
22-35	100	✓	M	100					
22-53 [‡]	53		I				53		
22-55	55		I				55		
24-1	128		M		128				
24-2	100		M			100			
24-4	56		I				48	8	
24-19 [‡]	19		I						19
24-24	24	✓	I					12	12
24-29	29		I					29	
24-35	128		M	128					
24-37	37		I					37	
24-43 [‡]	43		I				23	20	
24-61	61		I				61		

[‡] Special order contact configuration.

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World Class Service, Worldwide

We know your project can't wait, so we provide tailor-made flexibility with off-the-shelf lead times. We employ the latest assembly and quality-control processes to build and test every connector we ship.

- Knowledgeable and friendly technical support staff
- Average build time is 3-7 days on most products
- Expedited builds available for critical requirements
- Large component inventory to support large orders

CONNECTOR SELECTION IS CRITICAL MAKE THE RIGHT CALL



Connectors For Military Applications

We specialize in providing engineers with ruggedized cylindrical connectors built to meet military specifications. In addition, we offer a wide selection of protective accessories, backshells, and mounting hardware for even greater battlefield reliability. When specifying connectors for your next application, make the right call — Milnec.



Insert Arrangement Drawings

DS Series • MIL-DTL-38999 Series II Style Connectors



8-2
M
2 x #20



8-3
M
3 x #20



8-6
M
6 x #22M



8-35
M
6 x #22D



8-44
M
4 x #22



8-97
M
2 x #22M
2 x #20



8-98
I
3 x #20



10-4
I
4 x #20



10-5
I
5 x #20

Arrangement
Service Rating
Number of Contacts



10-13
M
13 x #22M



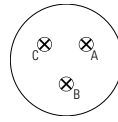
10-35
M
13 x #22D



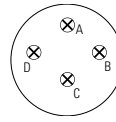
10-98
I
6 x #20



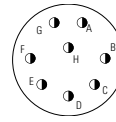
10-99
I
7 x #20



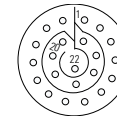
12-3
II
3 x #16



12-4
I
4 x #16

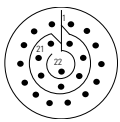


12-8
I
8 x #20

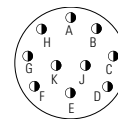


12-22
M
22 x #22M

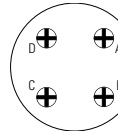
Arrangement
Service Rating
Number of Contacts



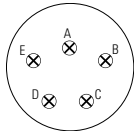
12-35
M
22 x #22D



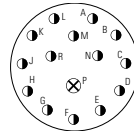
12-98
I
10 x #20



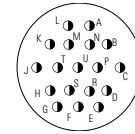
14-4
I
4 x #12



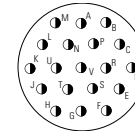
14-5
II
5 x #16



14-15
I
14 x #20, 1 x #16

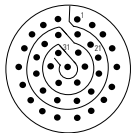


14-18
I
18 x #20

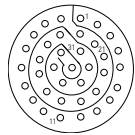


14-19
I
19 x #20

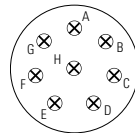
Arrangement
Service Rating
Number of Contacts



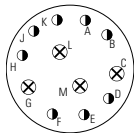
14-35
M
37 x #22D



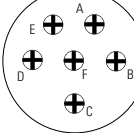
14-37
M
37 x #22M



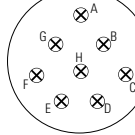
14-68
I
8 x #16



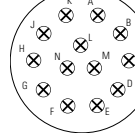
14-97
I
8 x #20, 4 x #16



16-6
I
6 x #12

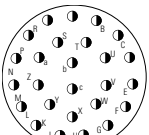


16-8
II
8 x #16

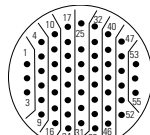


16-13
I
13 x #16

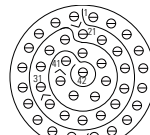
Arrangement
Service Rating
Number of Contacts



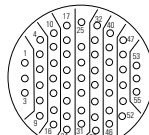
16-26
I
26 x #20



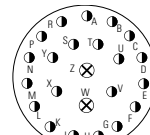
16-35
M
55 x #22D



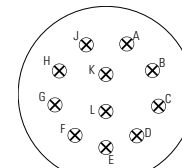
16-42
M
42 x #22



16-55
M
55 x #22M

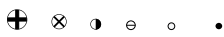


16-99
I
21 x #20, 2 x #16



18-11
II
11 x #16

Arrangement
Service Rating
Number of Contacts



Contact Legend: 12 16 20 22 22M 22D

(Continued on next page)

Insert Arrangement Drawings

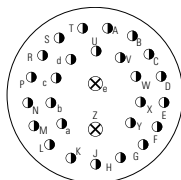
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Arrangement

Service Rating

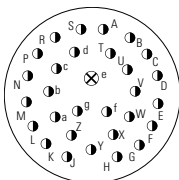
Number of Contacts



18-28

I

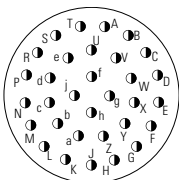
26 x #20, 2 x #16



18-30

I

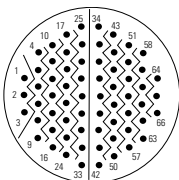
29 x #20, 1 x #16



18-32

I

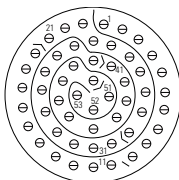
32 x #20



18-35

M

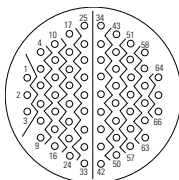
66 x #22D



18-53

M

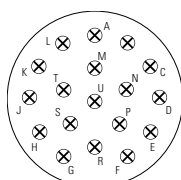
53 x #22



18-66

M

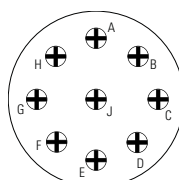
66 x #22M



18-68

I

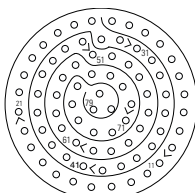
18 x #16



18-96

I

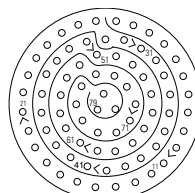
9 x #12



20-1

M

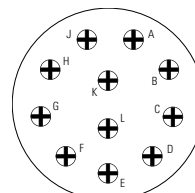
79 x #22M



20-2

M

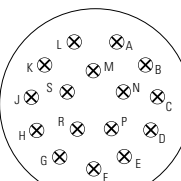
65 x #22



20-11

I

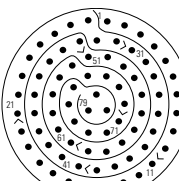
11 x #12



20-16

II

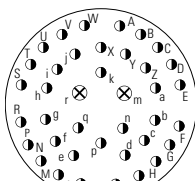
16 x #16



20-35

M

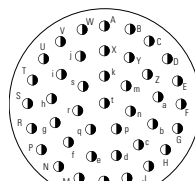
79 x #22D



20-39

I

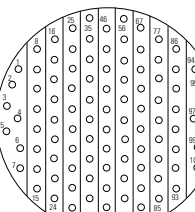
37 x #20, 2 x #16



20-41

I

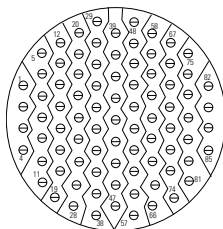
41 x #20



22-1

M

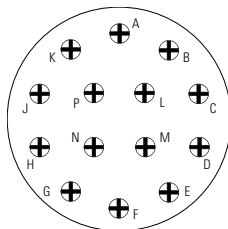
100 x #22M



22-2

M

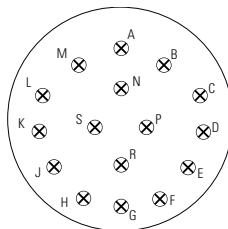
85 x #22



22-14

I

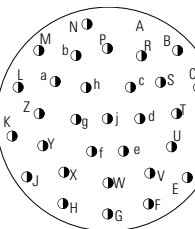
14 x #12



22-21

II

21 x #16



22-32

M

32 x #20

⊕ ⊗ ● ⊖ ○ ●

Contact Legend: 12 16 20 22 22M 22D

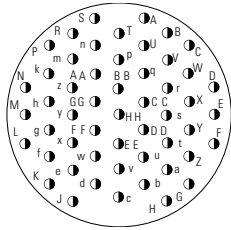
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Insert Arrangement Drawings

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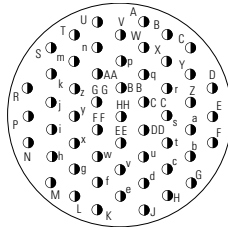
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22-53

I

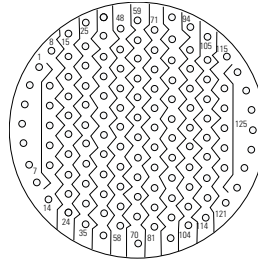
53 x #20



22-55

I

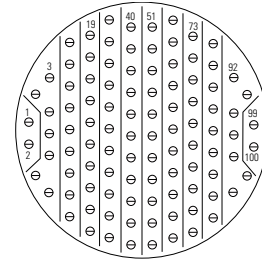
55 x #20



24-1

M

128 x #22M

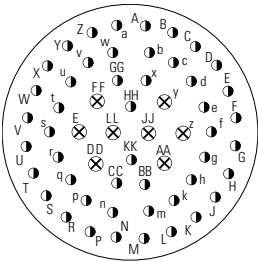


24-2

M

100 x #22

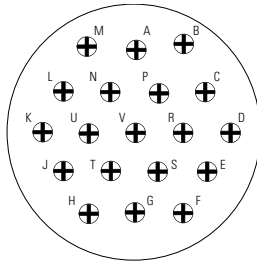
Arrangement
Service Rating
Number of Contacts



24-4

I

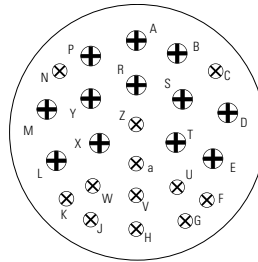
48 x #20,
8 x #16



24-19

I

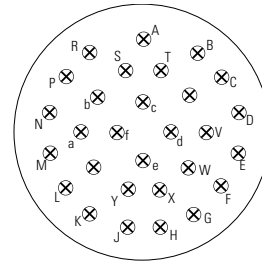
19 x #12



24-24

I

12 x #16, 12 x #12

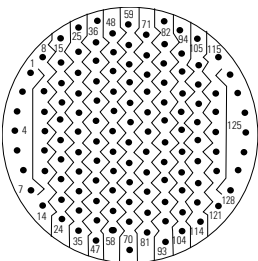


24-29

I

29 x #16

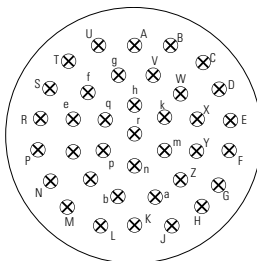
Arrangement
Service Rating
Number of Contacts



24-35

M

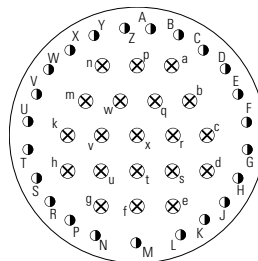
128 x #22D



24-37

I

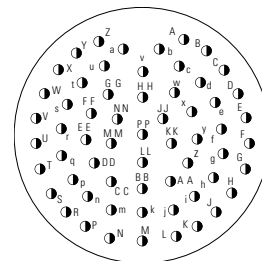
37 x #16



24-43

I

23 x #20, 20 x #16



24-61

I

61 x #20

Arrangement
Service Rating
Number of Contacts

Contact Legend: 12 16 20 22 22M 22D