

Signal, power and high-speed data insert arrangements

MIL-DTL-38999 Series III Type

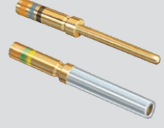
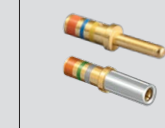
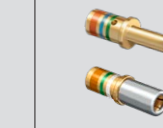
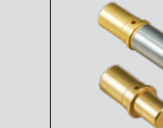
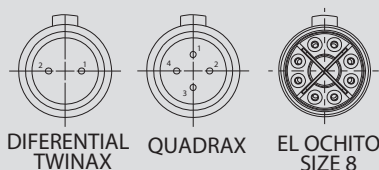
Crimp Contacts						
Size #22 - #12 Contacts						
Contact Size	#23	#22D	#20	#16	#12	#8
Wire Gauge	#22 - #28 AWG	#22 - #28 AWG	#20-#24 AWG	#16 - #20 AWG	#12 - #14 AWG	#8 AWG
Max Current	5 amps	5 amps	7.5 amps	13 amps	23 amps	46 amps
Pin	857-189	857-151-22	857-151-20	857-151-16	857-151-12	850-014
Socket	857-190	857-150-22	857-150-20	857-150-16	857-150-12	850-013
Size #8 Contacts						
Contact Size	#8 Coax 50Ω	#8 Coax 75Ω	#12 Coax	#16 Coax	#8 Diff. Twinax	#8 Quadrax
Pin	852-007	852-056	809-118	809-114	853-014-05	854-001
Socket	852-006	852-057	809-120	809-116	853-013-05	854-002
Size #8 El Ochito Contacts						
Contact Size	#8 El Ochito White, Type I		#8 El Ochito White, Type II		#8 El Ochito Red, Type I	
Pin	858-003		858-005		858-028	
Socket	858-004		858-006		858-029	

FIGURE 2: CONTACT INNER PIN ORIENTATION



Size 8 High-Speed Insert Arrangements*		
Shell Size	#8	Shell Size - Insert Arr.
9	1	9G5
11	1	11-1
17	2	17-75
19	4	19-4
21	4	21-75
23	5	23-5
23	6	23-6
25	8	25-8

*Note that any size #8 High-Speed contact can be substituted for size #8 power contact. See page C-3 for typical High-Speed contact applications.

Crimp Quadrax Contacts and Cable Type				
Contact Size	Type	Glenair P/N	Cable Type Dash No.	Wire Size
#8	Quadrax	854-001	-01 - Tensolite NF26Q100	26AWG
		854-002	-02 - Tensolite NF24Q100	24AWG
			-03 - Draka Fileca F 4704-6	26AWG
			-04 - Draka Fileca F 4704-4	24AWG

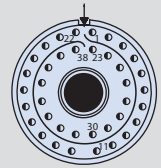
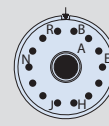
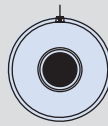
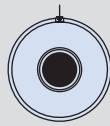
Combo High-Speed Insert Arrangements*							
Shell Size	Number of Contacts						Shell Size - Insert Arr.
	#23	#22D	#20	#16	#12	#8	
13	14					1	13-14
17		38		2		1	17-2
17					2	2	17-22
17		8				2	17-60
19		10	1	4		2	19-17
19		14				4	19-18
25		97				2	25-7
25		36				6	25-17
25			10	13	4	3	25-20
25			16		5	4	25-26
25		22	3	11	2	3	25-41
25			40	4		2	25-46

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Contact Legend

#23	•	#22D	◦
#16	⊕	#20	⊖
#12	◐	#8	◑



Insert Arrangement
No. of Contacts

9G5*
1x #8

11-1
1x #8

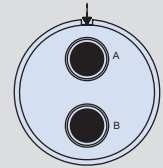
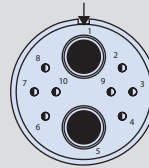
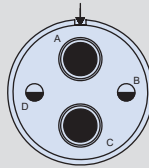
13-14
1x #8 | 14x #23

17-2
1x #8 | 38x #22D

*Only available with ground plane option

Contact Legend

#23	•	#22D	◦
#16	⊕	#20	⊖
#12	◐	#8	◑



Insert Arrangement
No. of Contacts

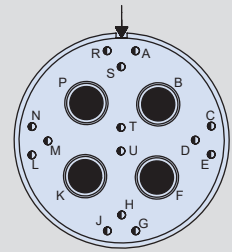
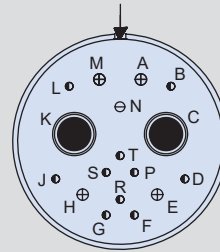
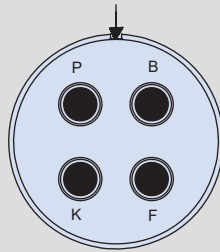
17-22
2x #8 | 2x #12

17-60
2x #8 | 8x #22

17-75
2x #8

Contact Legend

#23	•	#22D	◦
#16	⊕	#20	⊖
#12	◐	#8	◑



Insert Arrangement
No. of Contacts

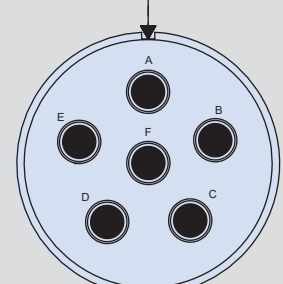
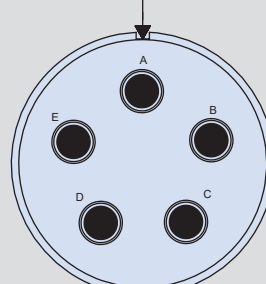
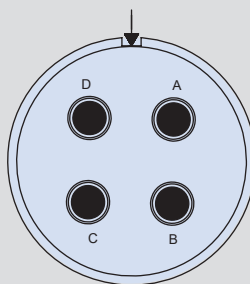
19-4
4x #8

19-17
2x #8 | 4x #16 | 1x #20 | 10x #22D

19-18
4x #8 | 14x #22D

Contact Legend

#23	•	#22D	◦
#16	⊕	#20	⊖
#12	◐	#8	◑



Insert Arrangement
No. of Contacts and Size

21-75
4x #8

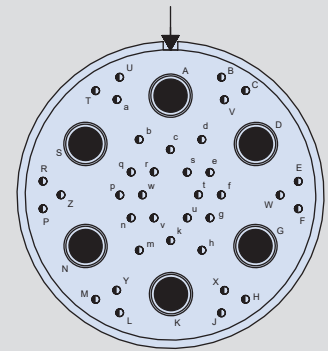
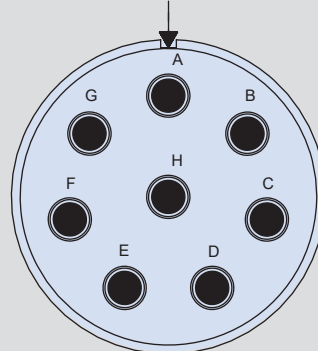
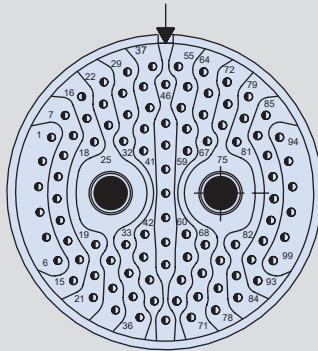
23-5
5x #8

23-6
6x #8

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Contact Legend

#23	•	#22D	◦
#16	⊕	#20	⊖
#12	◐	#8	◑



Insert Arrangement
No. of Contacts and Size

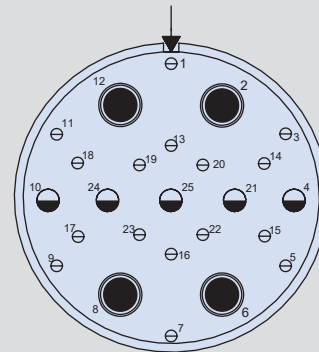
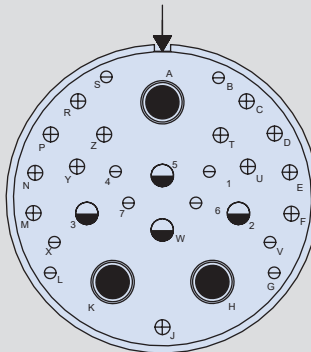
25-7
2x #8 97x #22

25-8
8x #8

25-17
6x #8 36x #22

Contact Legend

#23	•	#22D	◦
#16	⊕	#20	⊖
#12	◐	#8	◑



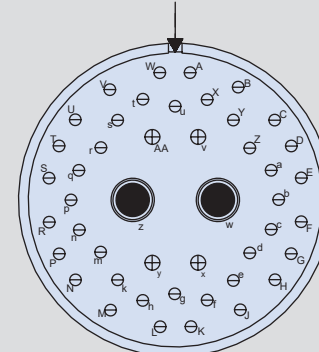
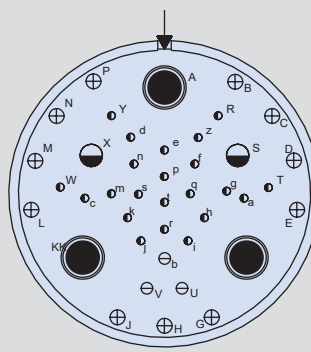
Insert Arrangement
No. of Contacts and Size

25-20
3x #8 4x #12 13x #16 10x #20

25-26
4x #8 5x #12 16x #20

Contact Legend

#23	•	#22D	◦
#16	⊕	#20	⊖
#12	◐	#8	◑



Insert Arrangement
No. of Contacts and Size

25-41
3x #8 2x #12 11x #16 3x #20 22x #22D

25-46
2x #8 4x #16 40x #20