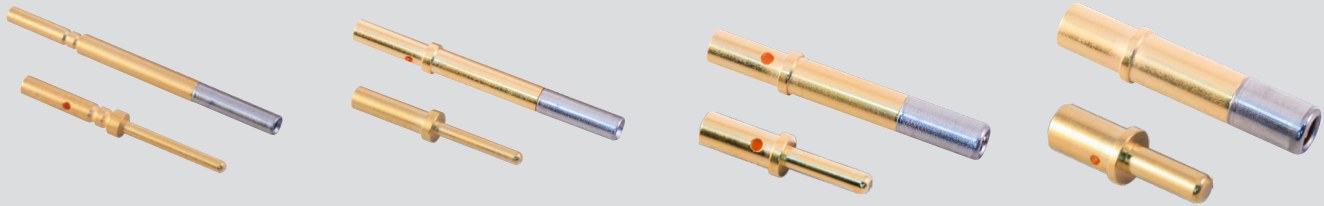


MIL-DTL-38999 Series III Type MIL-STD-1560 and other standard contact arrangements

All views are pin face



Size #22	Size #20	Size #16	Size #12
857-151-22 Pin	857-151-20 Pin	857-151-16 Pin	857-151-12 Pin
857-150-22 Socket	857-150-20 Socket	857-150-16 Socket	857-150-12 Socket

REFERENCE MATERIAL

Environmental and Hermetic Contact Arrangements					
Contact	Number of Contacts				Insert Arrangement
	#22D	#20	#16	#12	
Size #22D 5 Amp Max. Current #22-#28 AWG	6				9-35
	13				11-35
	22				13-35
	37				15-35
	55				17-35
	66				19-35
	67				19-45
	79				21-35
	100				23-35
	128				25-35
Size #20 7.5 Amp Max. Current #20-#24 AWG		2			9L-94*
		3			9-98
		4			11-4
		5			11-5
		6			11-98
		7			11-99
		8			13-8
		10			13-98
		18			15-18
		19			15-19
		26			17-26
		32			19-32
		24			21-24
		25			21-25
		27			21-27
		41			21-41
		32			23-32
		34			23-34
		36			23-36
		53			23-53
	55			23-55	
	61			25-61	

Environmental and Hermetic Contact Arrangements					
Contact	Number of Contacts				Insert Arrangement
	#22D	#20	#16	#12	
Size #16 Contacts 13 Amp Max. Current #16-#20 AWG			2		11-2
			4		13-4
			5		15-5
			8		17-8
			11		19-11
			16		21-16
			21		23-21
			16		23-97
			11		23-99
			29		25-29
Size #12 Contacts 23 Amp Max. Current #12-14 AWG				6	17-6
				11	21-11
				19	25-19

*9L-94 non MIL-STD-1560 in
See Appendix for PCB Footprints

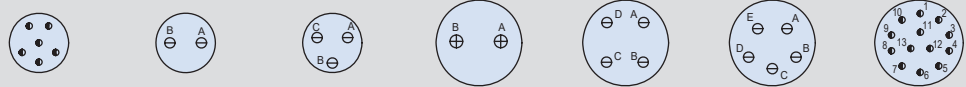
MIL-DTL-38999 Series III Type

MIL-STD-1560 and other standard contact arrangements

All views are pin face

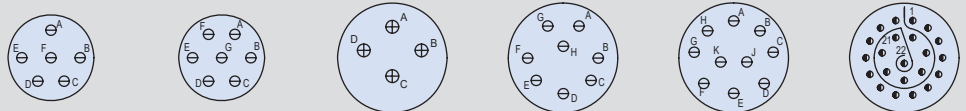
REFERENCE MATERIAL

Contact Legend
 #22D • #16 ⊕
 #20 ⊖ #12 ●



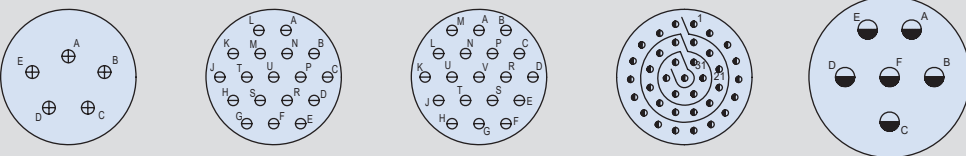
Insert Arrangement	9-35	9L-94	9-98	11-2	11-4	11-5	11-35
No. of Contacts	6	2	3	2	4	5	13
Contact Size	#22D	#20	#20	#16	#20	#20	#22D
Service Rating	M	M	I	I	I	I	M

Contact Legend
 #22D • #16 ⊕
 #20 ⊖ #12 ●



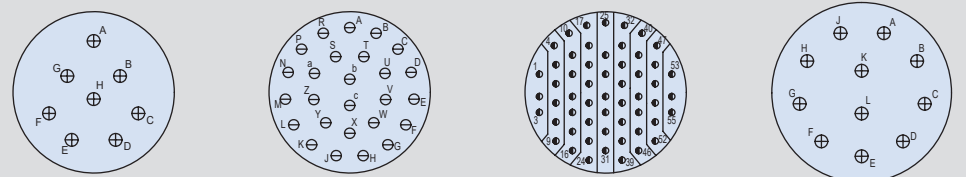
Insert Arrangement	11-98	11-99	13-4	13-8	13-98	13-35
No. of Contacts	6	7	4	8	10	22
Contact Size	#20	#20	#16	#20	#20	#22D
Service Rating	I	I	I	I	I	M

Contact Legend
 #22D • #16 ⊕
 #20 ⊖ #12 ●



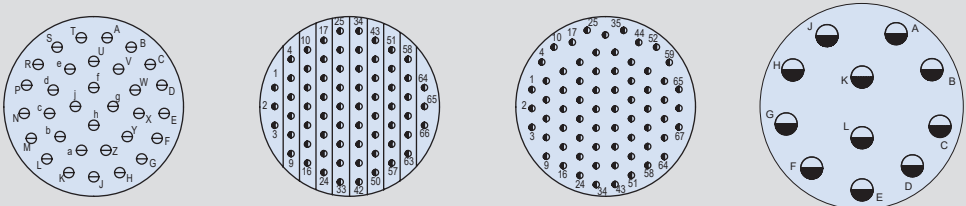
Insert Arrangement	15-5	15-18	15-19	15-35	17-6
No. of Contacts	5	18	19	37	6
Contact Size	#16	#20	#20	#22D	#12
Service Rating	II	I	I	M	I

Contact Legend
 #22D • #16 ⊕
 #20 ⊖ #12 ●



Insert Arrangement	17-8	17-26	17-35	19-11
No. of Contacts	8	26	55	11
Contact Size	#16	#20	#22D	#16
Service Rating	II	I	M	II

Contact Legend
 #22D • #16 ⊕
 #20 ⊖ #12 ●



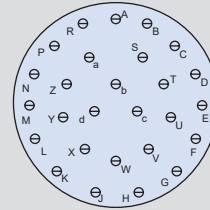
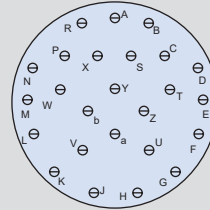
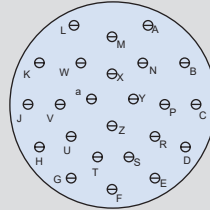
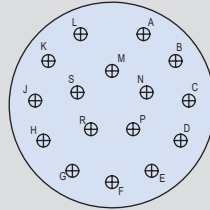
Insert Arrangement	19-32	19-35	19-45	21-11
No. of Contacts	32	66	67	11
Contact Size	#20	#22D	#22D	#12
Service Rating	I	M	M	I

MIL-DTL-38999 Series III Type MIL-STD-1560 and other standard contact arrangements

All views are pin face

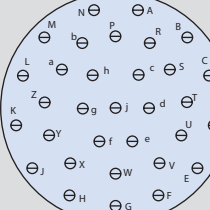
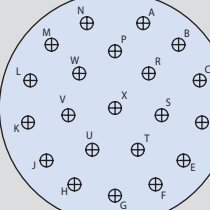
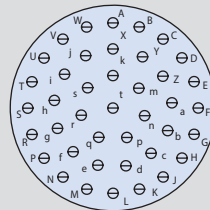
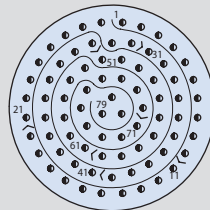
REFERENCE MATERIAL

Contact Legend
#22D • #16 ⊕
#20 ⊖ #12 ⊖



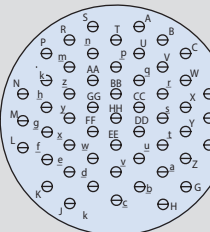
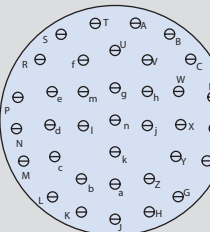
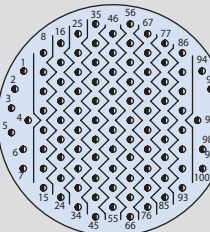
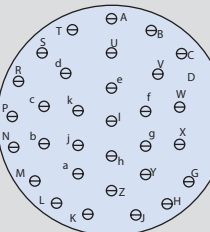
Insert Arrangement	21-16	21-24	21-25	21-27
No. of Contacts	16	24	25	27
Contact Size	#16	#20	#20	#20
Service Rating	II	I	I	I

Contact Legend
#22D • #16 ⊕
#20 ⊖ #12 ⊖



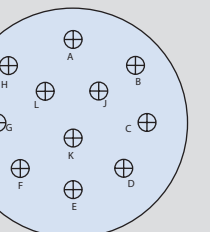
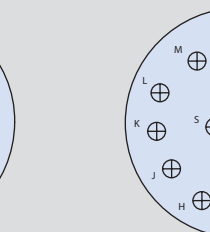
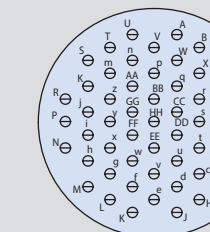
Insert Arrangement	21-35	21-41	23-21	23-32
No. of Contacts	79	41	21	32
Contact Size	#22D	#20	#16	#20
Service Rating	M	I	II	I

Contact Legend
#22D • #16 ⊕
#20 ⊖ #12 ⊖



Insert Arrangement	23-34	23-35	23-36	23-53
No. of Contacts	34	100	36	53
Contact Size	#20	#22D	#20	#20
Service Rating	I	M	I	I

Contact Legend
#22D • #16 ⊕
#20 ⊖ #12 ⊖

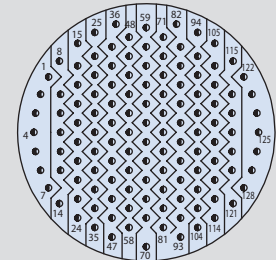
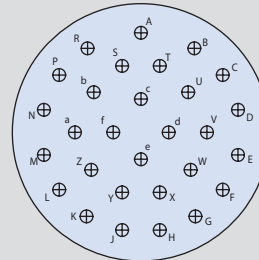
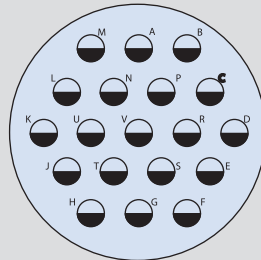


Insert Arrangement	23-55	23-97	23-99
No. of Contacts	55	16	11
Contact Size	#20	#16	#16
Service Rating	I	I	II

MIL-DTL-38999 Series III Type MIL-STD-1560 and other standard contact arrangements

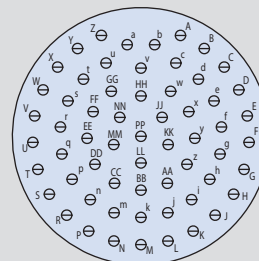
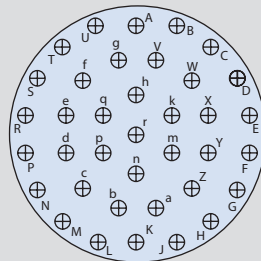
All views are pin face

Contact Legend
 #22D • #16 ⊕
 #20 ⊖ #12 ◐



Insert Arrangement	25-19	25-29	25-35
No. of Contacts	19	29	128
Contact Size	#12	#16	#22D
Service Rating	I	I	M

Contact Legend
 #22D • #16 ⊕
 #20 ⊖ #12 ◐



Insert Arrangement	25-37	25-61
No. of Contacts	37	61
Contact Size	#16	#20
Service Rating	II	I

REFERENCE MATERIAL

Service Rating	Test Voltage AC RMS 60Hz IAW MIL-DTL-38999							
	Sea Level		50,000 Ft.		70,000 Ft.		100,000 Ft	
	unmated	mated	unmated	mated	unmated	mated	unmated	mated
M	1300	1300	550	800	350	800	200	800
N	1000	1000	400	600	260	600	200	600
I	1800	1800	600	1000	400	1000	200	1000
II	2300	2300	800	1000	500	1000	200	1000

Note: The provision of electrical safety factors in each particular application, including peak voltages, switching currents, transients, etc. is the responsibility of the electrical engineer.