
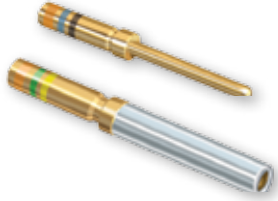





MIL-DTL-38999 Series III



MIL-STD-1560 contact arrangements Reference information

Available Series 233-105 and D38999 Contact Arrangements*							
Contact	Number of Contacts					233-105	D38999
	#23	#22D	#20	#16	#12		
Size #23 High-Density (HD) 5 Amp Max. Current #22-#28 AWG 	19					11-23	
	32					13-23	
	55					15-23	
	73					17-23	
	88					19-23	
	121					21-23	
	151					23-23	
	187					25-23	
Size #22D 5 Amp Max. Current #22-#24 AWG 		6				9-35	A35
		13				11-35	B35
		22				13-35	C35
		37				15-35	D35
		55				17-35	E35
		66				19-35	F35
		67				19-45	F45
		79				21-35	G35
		100				23-35	H35
		128				25-35	J35
Size #20 7.5 Amp Max. Current #20-#24 AWG 			3			9-98	A98
			4			11-4	B4
			5			11-5	B5
			6			11-98	B98
			7			11-99	B99
			8			13-8	C8
			10			13-98	C98
			18			15-18	D18
			19			15-19	D19
			26			17-26	E26
			32			19-32	F32
			24			21-24	G24
			25			21-25	G25
			27			21-27	G27
			41			21-41	G41
			32			23-32	H32
		34			23-34	H34	
		36			23-36	H36	
		53			23-53	H53	
		55			23-55	H55	
		61			25-61	J61	
Size #16 Contacts 13 Amp Max. Current #16-#20 AWG 				2		11-2	B2
				4		13-4	C4
				5		15-5	D5
				8		17-8	E8
				11		19-11	F11
				16		21-16	G16
				21		23-21	H21
				16		23-97	H97
				11		23-99	H99
				29		25-29	J29
Size #12 Contacts 23 Amp Max. Current #12-14 AWG 					6	17-6	E6
					11	21-11	G11
					19	25-19	J19

*Only contact arrangements specifically listed in the D38999 column are currently QPL'd

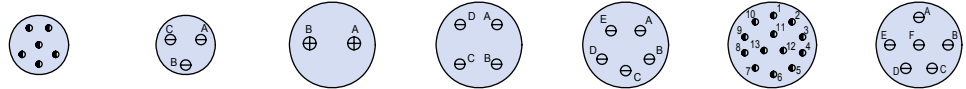
MIL-DTL-38999 Series III



MIL-STD-1560 contact arrangements - pin front view Reference information

Contact Legend

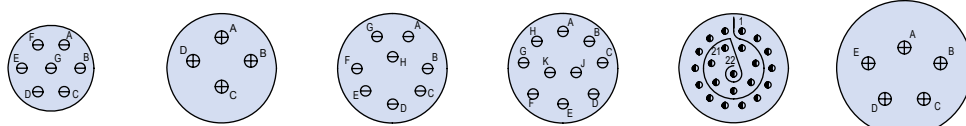
#22D • #16 ⊕
#20 ⊖ #12 ⊖



Insert Arrangement	233-105 D38999	9-35 A35	9-98 A98	11-2 B2	11-4 B4	11-5 B5	11-35 B35	11-98 B98
No. of Contacts		6	3	2	4	5	13	6
Contact Size		#22D	#20	#16	#20	#20	#22D	#20
Service Rating		M	I	I	I	I	M	I

Contact Legend

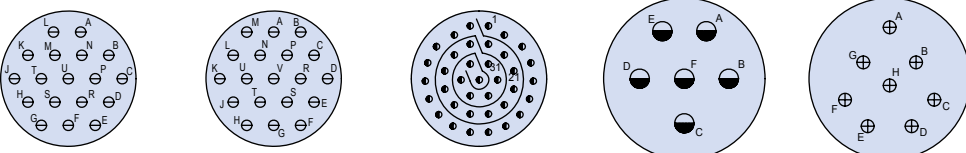
#22D • #16 ⊕
#20 ⊖ #12 ⊖



Insert Arrangement	233-105 D38999	11-99 B99	13-4 C4	13-8 C8	13-98 C98	13-35 C35	15-5 D5
No. of Contacts		7	4	8	10	22	5
Contact Size		#20	#16	#20	#20	#22D	#16
Service Rating		I	I	I	I	M	II

Contact Legend

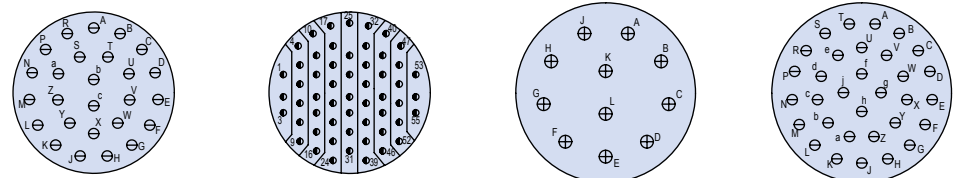
#22D • #16 ⊕
#20 ⊖ #12 ⊖



Insert Arrangement	233-105 D38999	15-18 D18	15-19 D19	15-35 D35	17-6 E6	17-8 E8
No. of Contacts		18	19	37	6	8
Contact Size		#20	#20	#22D	#12	#16
Service Rating		I	I	M	I	II

Contact Legend

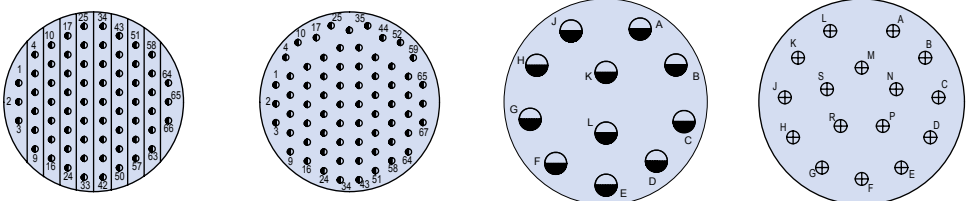
#22D • #16 ⊕
#20 ⊖ #12 ⊖



Insert Arrangement	233-105 D38999	17-26 E26	17-35 E35	19-11 F11	19-32 F32
No. of Contacts		26	55	11	32
Contact Size		#20	#22D	#16	#20
Service Rating		I	M	II	I

Contact Legend

#22D • #16 ⊕
#20 ⊖ #12 ⊖



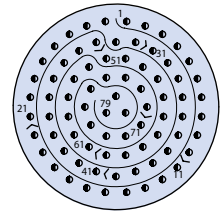
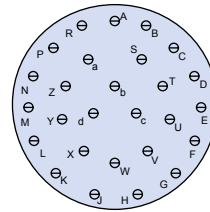
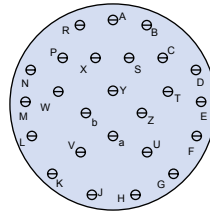
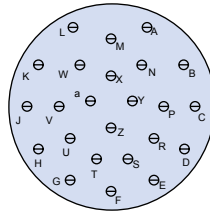
Insert Arrangement	233-105 D38999	19-35 F35	19-45 F45	21-11 G11	21-16 G16
No. of Contacts		66	67	11	16
Contact Size		#22D	#22D	#12	#16
Service Rating		M	M	I	II

MIL-DTL-38999 Series III



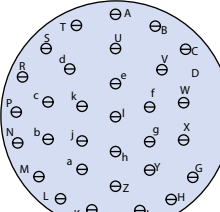
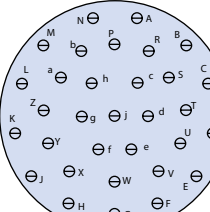
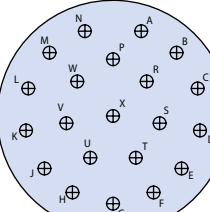
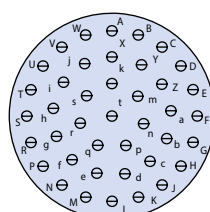
MIL-STD-1560 contact arrangements - pin front view Reference information

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



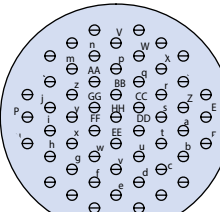
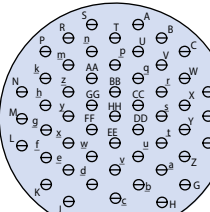
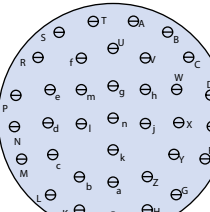
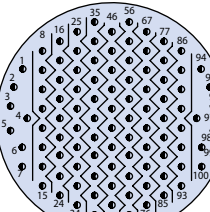
Insert Arrangement	233-105 D38999	21-24 G24	21-25 G25	21-27 G27	21-35 G35
No. of Contacts		24	25	27	79
Contact Size		#20	#20	#20	#22D
Service Rating		I	I	I	M

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



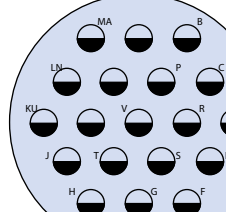
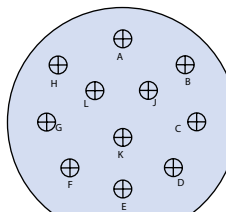
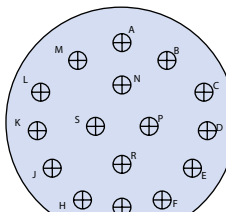
Insert Arrangement	233-105 D38999	21-41 G41	23-21 H21	23-32 H32	23-34 H34
No. of Contacts		41	21	32	34
Contact Size		#20	#16	#20	#20
Service Rating		I	II	I	I

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



Insert Arrangement	233-105 D38999	23-35 H35	23-36 H36	23-53 H53	23-55 H55
No. of Contacts		100	36	53	55
Contact Size		#22D	#20	#20	#20
Service Rating		M	I	I	I

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



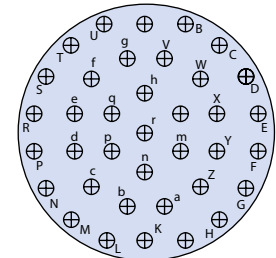
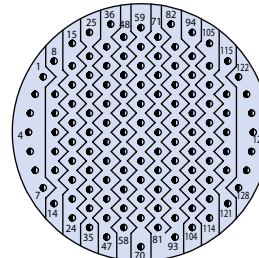
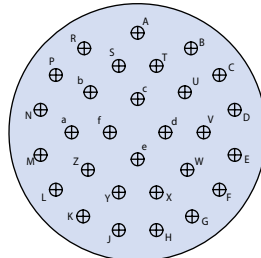
Insert Arrangement	233-105 D38999	23-97 H97	23-99 H99	25-19 J19
No. of Contacts		16	11	19
Contact Size		#16	#16	#12
Service Rating		I	II	I

MIL-DTL-38999 Series III



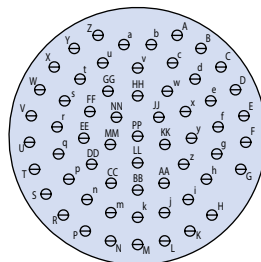
MIL-STD-1560 contact arrangements - pin front view Reference information

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



Insert Arrangement	233-105 D38999	25-29 J29	25-35 J35	25-37 J37
No. of Contacts		29	128	37
Contact Size		#16	#22D	#16
Service Rating		I	M	II

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



Insert Arrangement	233-105 D38999	25-61 J61
No. of Contacts		61
Contact Size		#20
Service Rating		I

Voltage Rating	Suggested Operating Voltage		Test Voltage AC RMS 60Hz							
	(Sea Level)		Sea Level		50,000 Ft.		70,000 Ft.		100,000 Ft	
Service Rating	AC (RMS)	DC	unmated	mated	unmated	mated	unmated	mated	unmated	mated
M	400	550	1300	1300	550	800	350	800	200	800
N	300	450	1000	1000	400	600	260	600	200	600
I	600	850	1800	1800	600	1000	400	1000	200	1000
II	900	1250	2300	2300	800	1000	500	1000	200	1000

Note: The establishment of electrical safety factors is left entirely to the designer, as he is in the position to know exactly what peak voltages, switching currents, transients, etc. can be expected in a particular circuit