

MIL-DTL-38999 SERIES III

POLARIZATION CHART (ORIENTATION)

Shell Size (Shell Code)	Key Polarization Identification Letter	Minor Key Orientation			
		AR° AP°	BR° BP°	CR° CP°	DR° DP°
9 (A)	N	105	140	215	265
	A	102	132	248	320
	B	80	118	230	312
	C	35	140	205	275
	D	64	155	234	304
	E	91	131	197	240
11, 13, & 15 (B, C, & D)	N	95	141	208	236
	A	113	156	182	292
	B	90	145	195	252
	C	53	156	220	255
	D	119	146	176	298
	E	51	141	184	242
17 & 19 (E & F)	N	80	142	196	293
	A	135	170	200	310
	B	49	169	200	244
	C	66	140	200	257
	D	62	145	180	280
	E	79	153	197	272
21, 23, & 25 (G, H & J)	N	80	142	196	293
	A	135	170	200	310
	B	49	169	200	244
	C	66	140	200	257
	D	62	145	180	280
	E	79	153	197	272

For alternate polarization A through E, the main key remains fixed, and minor key rotates
 The Polarization is used when same insert arrangement used for more than one connector. It avoids coupling with neighbour connector.

PANEL CUT-OUT

Shell Size (Shell Code)	H1 (4X)	H2 (4X)	ØH	G (4X)	ØF	G FLAT
	MAX	MAX	+ 0.25 -0.0	+0.25 -0.0	±0.2	+ 0.1 - 0.15
9 (A)	18.26	15.09	15.9	3.4	17.78	16.53
11 (B)	20.62	18.26	19.08	3.4	20.96	19.07
13 (C)	23.01	20.62	22.25	3.4	25.65	23.82
15 (D)	24.61	23.01	25.43	3.4	28.83	26.97
17 (E)	26.97	24.61	30.18	3.4	32	30.15
19 (F)	29.36	26.97	31.78	3.4	35.18	33.32
21 (G)	31.75	29.36	34.95	3.4	38.45	36.5
23 (H)	34.93	31.75	38.38	4.06	41.53	39.67
25 (J)	38.10	34.93	41.3	4.06	44.7	42.85

CONNECTOR CONTACTS

Contacts			Filler (Dummy) Plugs		Insertion & Extraction Tool		
Size	Type	Part No.	Mil-Spec	Color	Mil-Spec	Insertion colour	Extract Colour
22D	Pin	M39029/58-360	MS27488-22-2	Black	M81969/14-01	Green	White
	Socket	M39029/56-348					
20	Pin	M39029/58-363	MS27488-20-2	Red	M81969/14-02	red	White
	Socket	M39029/56-351					
16	Pin	M39029/58-364	MS27488-16-2	Blue	M81969/14-03	Blue	White
	Socket	M39029/56-352					
12	Pin	M39029/58-365	MS27488-12-2	Yellow	M81969/14-04	Yellow	White
	Socket	M39029/56-353					