

MIL-DTL-38999 Series III Type Environmental Connectors 233-220 Receptacle with SpeedMaster™ 10G PC tail contacts

Part Number Development	
Sample Part Number	233-220 -07 ME 25 -7 P N
Series / Basic Part No.	SuperNine Environmental High-Speed connector
Connector Style*	See connector type table
Material/Finish	NF = Cadmium Olive Drab ZR = Black Zinc Nickel MT = Nickel PTFE ME = Electroless Nickel
Shell Size	11, 19, 21, 25
Insert Arrangement	See Insert Arrangement Table
Module Type	P = Pin S = Socket
Alternate Polarization	A, B, C, D, E, N = Normal (IAW MIL-DTL-38999 Series III); See alternate positions table.



Connector Style	
Symbol	Description
00	Wall mount receptacle with slotted holes, standard standoff threads
10	Wall mount receptacle with slotted holes, metric standoff threads
CM	Wall mount receptacle with metric clinch nuts
CS	Wall mount receptacle with standard clinch nuts
HM	Wall mount receptacle with metric helicoils
HS	Wall mount receptacle with standard helicoils
07	Jam-nut receptacle

Alternate Positions						
Keyway Positions (Receptacle)						
Shell Size Code	Shell Size	Alternate Position Code	AR°	BR°	CR°	DR°
B	11	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
F G J	19 21 25	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

Insert Arrangements			
11-1	19-3	21-4	25-7

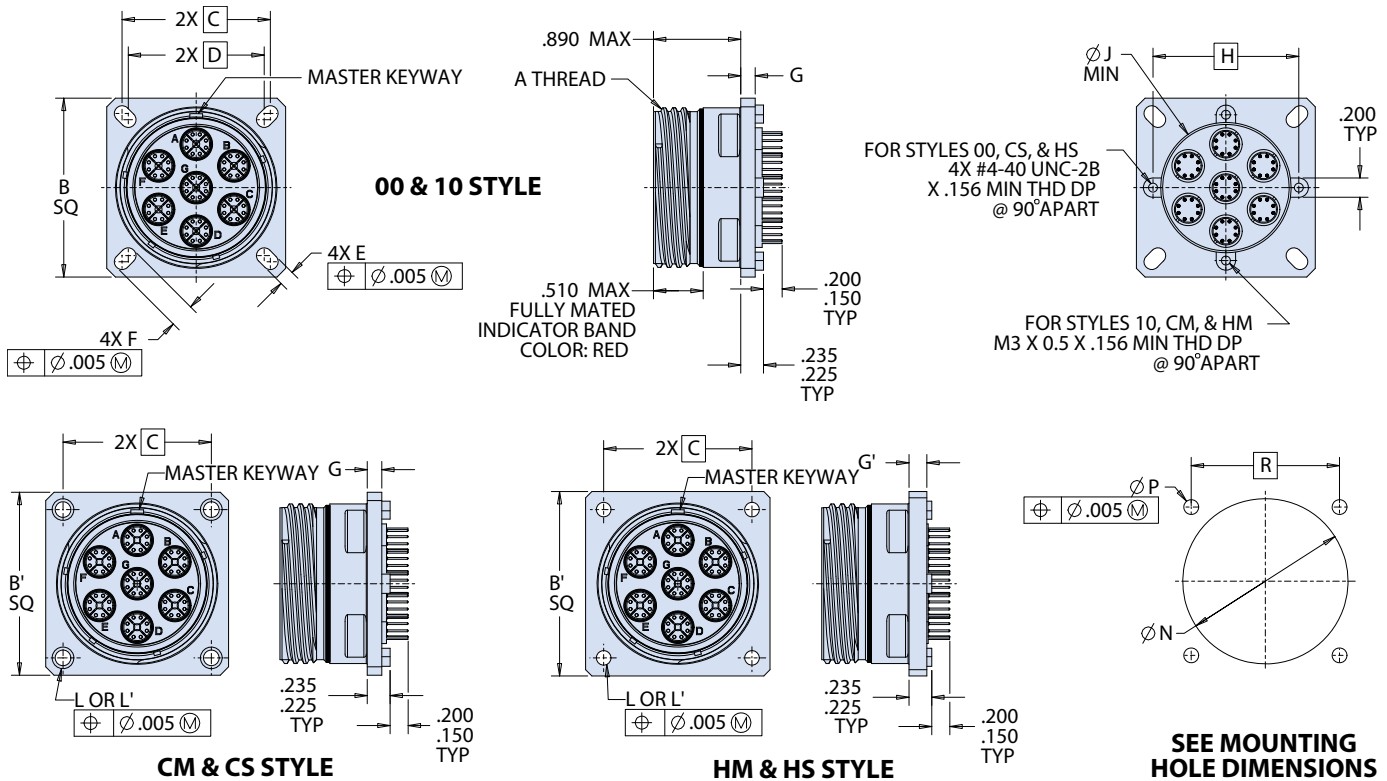
NOTES

- Mates with Glenair 233-216-G6, D38999 SpeedMaster plug of same keying and insert arrangement. Mating connector must be 1.5 meter minimum cable length
- Material/finish
 - Shell, jam-nut: see part number development
 - Insert: Aluminum alloy/ silver
 - Seals, o-ring: Fluorosilicone blend/n.a.
 - Insulators: rigid dielectric/n.a.
 - Contacts: copper alloy/gold
 - Potting: epoxy/n.a.

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HIGH-SPEED CONNECTORS

233-263 WALL MOUNT WITH SLOTTED HOLES AND STANDARD (00) OR METRIC (10) STANDOFF THREADS, STANDARD (CS) OR METRIC (CM) CLINCH NUTS, OR STANDARD HELICOILS (HS) OR METRIC HELICOILS (HM)



Dimensions													
Shell Size	A Thread	B Sq	B' Sq	C Bsc	D Bsc	E	F	G	G'	H	ØJ Min	Thread	
												L	L'
11	.7500	1.043 (26.49)	1.187 (30.15)	.812 (20.62)	.719 (18.26)			.122 (3.10)					
	-0.1P-0.3L-TS-2A	1.019 (25.88)	1.147 (29.13)					.083 (2.11)					
19	1.2500	1.449 (36.80)	1.531 (38.89)	1.156 (29.36)	1.062 (26.97)	.136 (3.45)	.202 (5.13)		.179 (4.55)				
	-0.1P-0.3L-TS-2A	1.425 (36.20)	1.491 (37.87)			.120 (3.05)	.186 (4.72)						
21	1.3750	1.575 (40.00)	1.625 (41.28)	1.250 (31.75)	1.156 (29.36)			.153 (3.89)					
	-0.1P-0.3L-TS-2A	1.551 (39.40)	1.585 (40.26)					.114 (2.90)					
25	1.6250	1.823 (46.30)	1.875 (47.63)	1.500 (38.10)	1.375 (34.92)	.162 (4.11)	.250 (6.35)		.190 (4.83)				
	-0.1P-0.3L-TS-2A	1.799 (45.69)	1.835 (46.61)			.146 (3.71)	.235 (5.97)						

Mounting Hole Dimensions			
Shell Size	ØN Min	Ø P Holes	R Bsc
11	0.796 (20.22)	0.133 (3.38) 0.123 (3.12)	0.812 (20.62)
19	1.297 (32.94)		1.156 (29.36)
21	1.422 (36.12)		1.250 (31.75)
25	1.672 (42.47)	0.155 (3.94) 0.145 (3.68)	1.500 (38.10)

