

SERIES 23 SUPERNINE Better-than-QPL SuperNine D38999 Connectors with SpeedMaster™ 10G high-speed contacts



23-220 PC Tail Receptacle

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 Style Table						
Material/Finish	NF = Cadmium Olive Drab MT = Nickel PTFE Z1 = Passivated ME = Electroless Nickel ZR = Black Zinc Nickel ZL = Electrodeposited Nickel						
Shell Size	11, 19, 21, 25						
Insert Arrangement	See Insert Arrangements Table						
Contact Gender	P = Pin S = Socket						
Alternate Polarization	A, B, C, D, E, N = Normal (IAW MIL-DTL-38999 Series III); See Alternate Positions Table						



Socket SpeedMaster

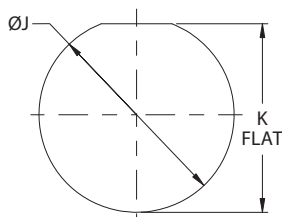
Pin SpeedMaster

NOTES

- Only mates with Glenair SpeedMaster plug of same keying insert arrangement. Mating connector must have 1.5 meters minimum of cable length

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

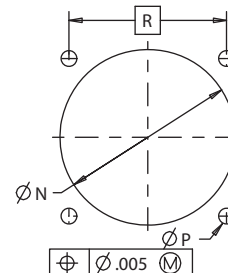
JAM NUT PANEL MOUNTING HOLES



Mounting Hole Dimensions		
Shell Size	Ø J	K Flat
11	.835 (21.21)	.771 (19.58)
	.825 (20.96)	.761 (19.33)
19	1.395 (35.43)	1.335 (33.91)
	1.385 (35.18)	1.325 (33.65)
21	1.520 (38.61)	1.460 (37.08)
	1.510 (38.35)	1.450 (36.83)
25	1.770 (44.96)	1.710 (43.43)
	1.760 (44.70)	1.700 (43.18)

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
		E	51	141	184	242
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

WALL MOUNT PANEL MOUNTING HOLES



Mounting Hole Dimensions			
Shell Size	ØN Min	ØP Holes	R Typ
11	.796 (20.2)	.133 (3.4)	.812 (20.6)
19	1.297 (32.9)		1.156 (29.4)
21	1.422 (36.1)		1.250 (31.8)
25	1.672 (42.5)	.155 (3.9)	1.500 (38.1)
		.145 (3.7)	

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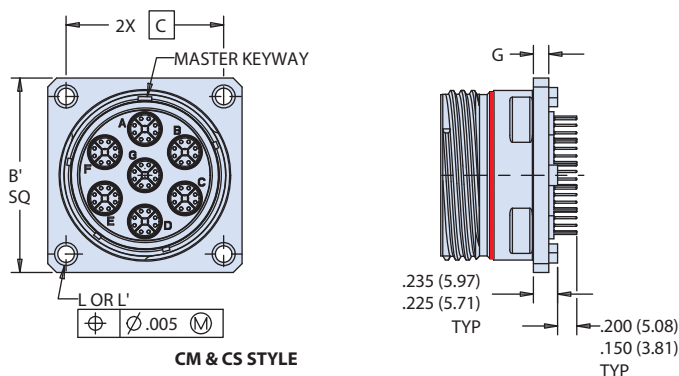
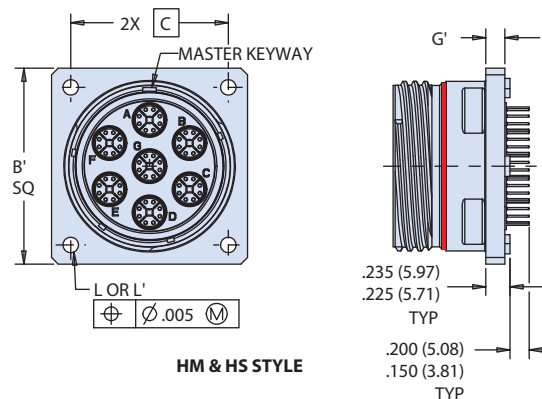
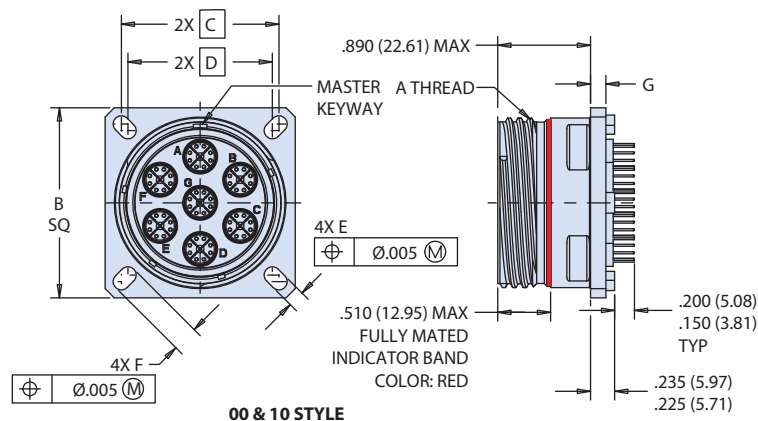
Insert Arrangements			
11-1 1X SpeedMaster	19-3 3X SpeedMaster	21-4 4X SpeedMaster	25-7 7X SpeedMaster
25-6A23 6X SpeedMaster 9X Size 23	25-6A35 6X SpeedMaster 6X Size 22D	25-6A98 6X SpeedMaster 3X Size 20	25-6AG5 6X SpeedMaster 1X Size 8
25-4C14 4X SpeedMaster 14X Size 23 1X Size 8	25-4C23 4X SpeedMaster 32X Size 23	25-4C35 4X SpeedMaster 22X Size 22D	25-4C4 4X SpeedMaster 4X Size 16
	25-4C8 4X SpeedMaster 8X Size 20	25-4C98 4X SpeedMaster 10X Size 20	

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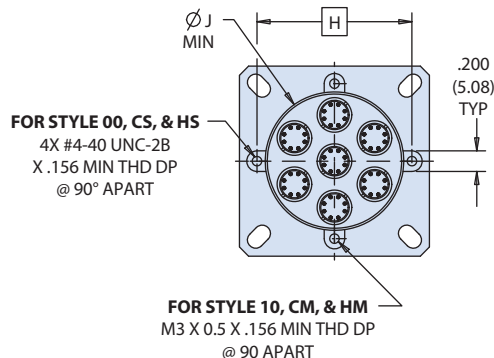


233-220 PC Tail, Wall Mount Receptacle

00, 10, CM, CS, HM, AND HS - WALL MOUNT RECEPTACLES WITH SLOTTED HOLES D38999/20 TYPE



Rear view applies to all connector styles



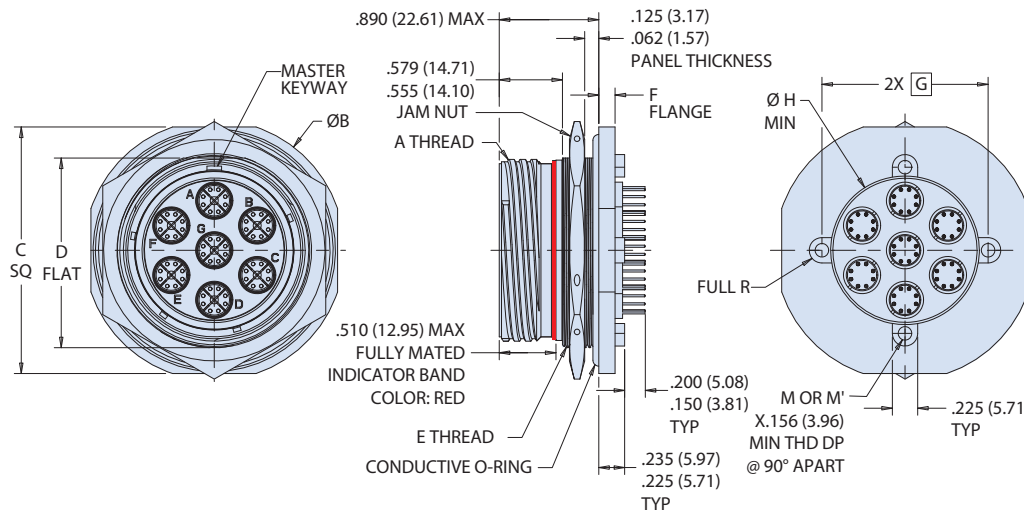
Dimensions													
Shell Size	A Thread -0.1P-0.3L-TS-2A	B Sq	B' Sq	C Bsc	D Bsc	E	F	G	G'	H Bsc	Ø J Min	L	L'
11	.7500	1.043 (26.49) 1.019 (25.88)	1.187 (30.15) 1.147 (29.13)	.812 (20.62)	.719 (18.26)	.136 (3.45) .120 (3.05)	.202 (5.13) .186 (4.72)	.122 (3.10) .083 (2.11)	.179 (4.55)	.719 (18.26)	.468 (11.89)	.112-40 UNC-2B	M3x0.5
19	1.2500	1.449 (36.80) 1.425 (36.20)	1.531 (38.89) 1.491 (37.87)	1.156 (29.36)	1.062 (26.97)			.153 (3.89) .114 (2.90)	1.15 (29.21)	1.15 (29.21)	.934 (23.72)		
21	1.3750	1.575 (40.00) 1.551 (39.40)	1.625 (41.28) 1.585 (40.26)	1.250 (31.75)	1.156 (29.36)								
25	1.6250	1.823 (46.30) 1.799 (45.69)	1.875 (47.63) 1.835 (46.61)	1.500 (38.10)	1.375 (34.92)			.250 (6.35) .234 (5.94)	.250 (6.35) .234 (5.94)	1.475 (37.47)	1.745 (44.32)	1.307 (33.20)	.138-32 UNC-2B

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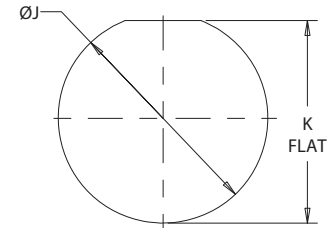


233-220 PC Tail Jam-Nut Receptacle

07- JAM-NUT MOUNT RECEPTACLE D38999/24 TYPE



PANEL CUT-OUT



Dimensions		
Shell Size	ØJ ±0.010	K Flat
11	.830 (21.08)	.766 (19.46)
19	1.390 (35.31)	1.330 (33.78)
21	1.515 (38.48)	1.455 (36.96)
25	1.765 (44.83)	1.705 (43.31)

Dimensions										
Shell Size	A Thread -0.1P-0.3L-TS-2A	Ø B	C Sq	D Flat	E Thread ISO Metric	F	G	ØH Min	Threads	
									M	M'
11	.7500	1.386 (35.20) 1.362 (34.59)	1.268 (32.21) 1.263 (32.08)	0.755 (19.18) 0.745 (18.92)	M20 X 1.0-6g	0.122 (3.10) 0.083 (2.11)	0.719 (18.26)	0.468 (11.89)	.112-40 UNC-2B	M3 X .05
19	1.2500	1.949 (49.50) 1.925 (48.90)	1.827 (46.41) 1.795 (45.59)	1.316 (33.43) 1.306 (33.17)	M35 X 1.0-6g	0.153 (3.89) 0.114 (2.90)	1.150 (29.21)	0.934 (23.72)		
21	1.3750	2.075 (52.71) 2.051 (52.10)	1.953 (49.61) 1.921 (48.79)	1.441 (36.60) 1.431 (36.35)	M38 X 1.0-6g		1.221 (31.01)	1.055 (26.80)		
25	1.6250	2.323 (59.00) 2.299 (58.39)	2.205 (56.01) 2.173 (55.19)	1.691 (42.95) 1.681 (42.70)	M44 X 1.0-6g		1.475 (37.47)	1.307 (33.20)		

PCB FOOTPRINTS

