

MIL-DTL-38999 Series I Type

231-250 Code Red Lightweight Hermetic Receptacle



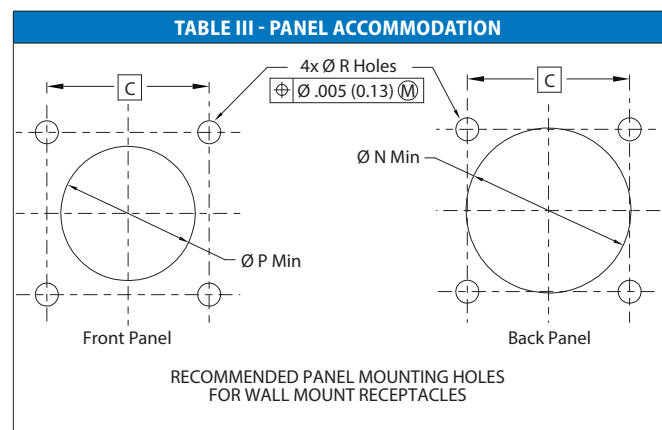
CONNECTOR FEATURES

- Bayonet coupling for rapid mating
- Scoop proof technology
- MIL-STD-1560 insert arrangements
- Same EMI performance as D38999 Series III
- Quick turn, positive lock, full mate indicator
- 500 cycles per D38999
- Enhanced finishes like Passivated stainless steel and Electrodeposited Nickel over stainless steel
- Available in jam nut, solder and box mount
- Meets 1×10^{-7} cc/sec He leak requirement
- Hi-reliability stainless steel bayonets utilized

HOW TO ORDER							
Sample Part Number	231-250	-D0	NF	17	-8	P	N
Basic Part Number	231-250						
Connector Style	07 = Receptacle, Jam Nut D0 = Receptacle, Wall Mount Front Panel, Standard Holes E0 = Receptacle, Extended Wall Mount, Back Panel, Standard Holes (MS27656T)						
Material / Finish	See Table I						
Connector Size	9, 11, 13, 15, 17, 19, 21, 23, 25						
Insert Arrangement	Per MIL-STD-1560						
Contact Style	P = Pin, Solder Cup S = Socket, Solder Cup C = Pin, PC Tail D = Socket, PC Tail						
Alternate Polarization	A, B, C, D (N = Normal)						

TABLE I - MATERIAL/FINISH			
SYM	Material	Finish	Temp. Range
AB	Marine Bronze	None (Clean Only)	-65° to +200°C
MA	Aluminum Alloy	Electroless Nickel, Matte Finish	
ME		Electroless Nickel	
NF		Cad/O.D. Over Electroless Nickel	-65° to +175°C
ZN		Zinc Ni, Olive Drab	
ZR		Zinc Ni, Black (Tri-Valent Cr)	
Z1	Stainless Steel	CRES, Passivated	-65° to +200°C
ZL		CRES, Nickel Finish	

TABLE II - PC TAIL	
Contact Size	Ø CC
22D	.020 .018
20	.030 .028
16	.040 .038
12	.072 .070



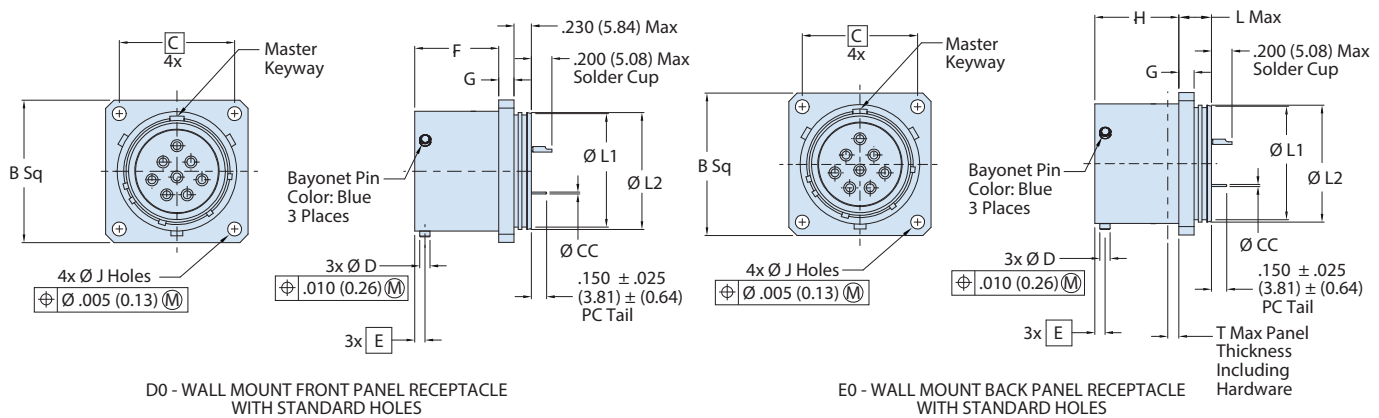
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HERMETIC CONNECTORS

231-250-D0 WALL MOUNT FRONT PANEL RECEPTACLE WITH STANDARD HOLES

231-250-E0 WALL MOUNT BACK PANEL RECEPTACLE WITH STANDARD HOLES

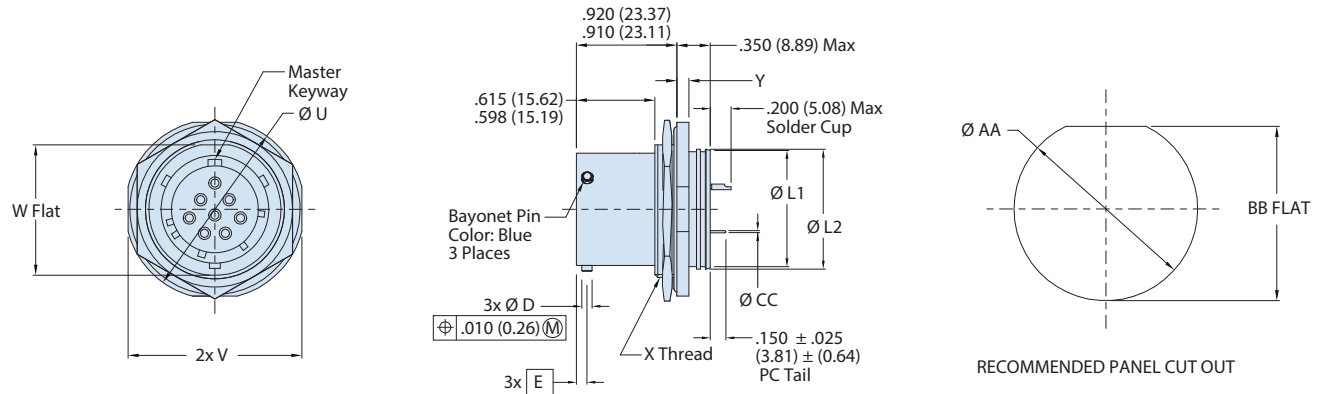


CONNECTOR AND PANEL MOUNT DIMENSIONS																					
Shell Size Code	Shell Size	B Sq	C Bsc	ØD	E Bsc	F	G	G'	H	ØJ Holes	K	K'	L Max	ØL1 ±.012	ØL2 0.012 0.000	ØN Min	ØP Min	ØR Holes	T Max		
A	9	0.958 (24.33) 0.918 (23.32)	0.719 (18.26)	0.084 (2.13) 0.076 (1.93)	0.100 (2.54)	0.632 (16.05) 0.627 (15.93)	0.100 (2.54) (2.16)	0.179 (4.55) (3.56)	0.820 (20.83) (20.70)	0.138 (3.51) 0.123 (3.12)	.112-40 UNC-3B	M3X0.5	0.300 (7.62)	0.602 (15.29)	0.642 (16.31)	0.656 (16.66)	0.658 (16.71)	0.133 (3.38) 0.123 (3.12)	0.234 (5.94)		
B	11	1.051 (26.70) 1.011 (25.68)	0.812 (20.62)											0.724 (18.39)	0.764 (19.41)	0.796 (20.22)	0.780 (19.81)				
C	13	1.145 (29.08) 1.105 (28.07)	0.906 (23.01)											0.850 (21.59)	0.894 (22.71)	0.922 (23.42)	0.910 (23.11)				
D	15	1.239 (31.47) 1.199 (30.45)	0.969 (24.61)											0.976 (24.79)	1.020 (25.91)	1.047 (26.59)	1.036 (26.31)				
E	17	1.332 (33.83) 1.292 (32.82)	1.062 (26.97)			1.102 (27.99)	1.142 (29.01)	1.219 (30.96)	1.158 (29.41)												
F	19	1.458 (37.03) 1.418 (36.02)	1.156 (29.36)			1.228 (31.19)	1.268 (32.21)	1.297 (32.94)	1.284 (32.61)												
G	21	1.582 (40.18) 1.542 (39.17)	1.250 (31.75)			1.350 (34.29)	1.394 (35.41)	1.422 (36.12)	1.410 (35.81)				0.330 (8.38)	1.602 (40.69)	1.642 (41.71)	1.672 (42.47)	1.658 (42.11)			0.155 (3.94) 0.145 (3.68)	0.193 (4.90)
H	23	1.708 (43.38) 1.668 (42.37)	1.375 (34.93)			0.602 (15.29) 0.597 (15.16)	0.130 (3.30) (2.92)	0.190 (4.83) (4.32)	0.790 (20.07) (19.94)					0.157 (3.99) 0.142 (3.61)	1.476 (37.49)	1.520 (38.61)	1.547 (39.29)			1.536 (39.01)	0.159 (4.04) 0.149 (3.78)
J	25	1.832 (46.53) 1.792 (45.52)	1.500 (38.10)	0.131 (3.33) 0.123 (3.12)	0.109 (2.77)						.138-32 UNC-3B	M4X0.7									

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231-250-07 JAM NUT MOUNT RECEPTACLE



07 - JAM NUT MOUNT RECEPTACLE (MS27470 REF)

CONNECTOR AND PANEL MOUNT DIMENSIONS								
Shell Size Code	Shell Size	ØU	V	W Flat	X Thread	Y	ØAA	BB Flat
A	9	1.204 (30.58)	1.078 (27.38)	0.655 (16.64)	.6875-24 UNEF-2A	.120 (3.05) .099 (2.51)	0.703 (17.86)	0.661 (16.79)
		1.172 (29.77)	1.046 (26.57)	0.645 (16.38)			0.693 (17.60)	0.654 (16.61)
B	11	1.391 (35.33)	1.266 (32.16)	.755 (19.18)	.8125-20 UNEF-2A		.835 (21.21)	.771 (19.58)
		1.359 (34.52)	1.234 (31.34)	.745 (18.92)			.825 (20.96)	.761 (19.33)
C	13	1.516 (38.51)	1.391 (35.33)	0.942 (23.93)	1.000-20 UNEF-2A		1.020 (25.91)	0.955 (24.26)
		1.484 (37.69)	1.359 (34.52)	0.932 (23.67)			1.010 (25.65)	0.945 (24.00)
D	15	1.641 (41.68)	1.516 (38.51)	1.066 (27.08)	1.1250-18 UNEF-2A		1.145 (29.08)	1.085 (27.56)
		1.609 (40.87)	1.484 (37.69)	1.056 (26.82)			1.135 (28.83)	1.075 (27.31)
E	17	1.766 (44.86)	1.641 (41.68)	1.191 (30.25)	1.2500-18 UNEF-2A		1.270 (32.26)	1.210 (30.73)
		1.734 (44.04)	1.609 (40.87)	1.181 (30.00)			1.260 (32.00)	1.200 (30.48)
F	19	1.954 (49.63)	1.828 (46.43)	1.316 (33.43)	1.3750-18 UNEF-2A		1.395 (35.43)	1.335 (33.91)
		1.922 (48.82)	1.796 (45.62)	1.306 (33.17)			1.385 (35.18)	1.325 (33.66)
G	21	2.078 (52.78)	1.954 (49.63)	1.441 (36.60)	1.5000-18 UNEF-2A	.151 (3.84) .130 (3.30)	1.520 (38.61)	1.460 (37.08)
		2.046 (51.97)	1.922 (48.82)	1.431 (36.35)			1.510 (38.35)	1.450 (36.83)
H	23	2.204 (55.98)	2.078 (52.78)	1.566 (39.78)	1.6250-18 UNEF-2A		1.645 (41.78)	1.585 (40.26)
		2.172 (55.17)	2.046 (51.97)	1.556 (39.52)			1.635 (41.53)	1.575 (40.01)
J	25	2.328 (59.13)	2.204 (55.98)	1.691 (42.95)	1.7500-18 UNEF-2A		1.770 (44.96)	1.710 (43.43)
		2.296 (58.32)	2.172 (55.17)	1.681 (42.70)			1.760 (44.70)	1.700 (43.18)