SuperNine® Series IV Environmental

MIL-DTL-38999 Series IV Type
234-210 Panel mount and Jam nut receptacles with PC tails, threaded standoff

"BETTER-THAN-QPL" FEATURES AND BENEFITS

- Secure breech-lock mating connector meets D38999 shock and vibe
- Glenair Signature Tin Zinc finish class is RoHS compliant and cadmium compatible
- Precision-machined key/keyway polarization for reliable mismating protection
- Scoop-proof design prevents pin damage and short circuits
- Fully tooled for all MIL-STD-1560 insert arrangements
- Contact options include size #22D, #20, #16, and #12 (see High-Speed series for Size #8)
- 500 mating cycles exceeds MIL-DTL-38999 specification

HOW TO ORDER

Sample Part Number	234-210	-D0	NF	11	-35	P	N
Basic Part Number	**234-210**						
Connector Style	(See Table II)						
Material/Finish	(See Table I)						
Shell Size	**11**, **13**, **15**, **17**, **19**, **21**, **23**, **25**						
Insert Arrangement	PER MIL-STD-1560						
Insert Designator	**P** = Pin, Gold **S** = Socket, Gold **H** = Pin, Pd/Ni **J** = Socket, Pd/Ni						
Alternate Polarization	**A**, **B**, **C**, **D**, **K**, **L**, **M**, **R**, **N** = Normal						

TABLE I - MATERIAL/FINISH

Equiv Class	Sym	Material	Finish
W	**NF**	Aluminum Alloy	Cad/O.D. over Electroless Nickel
G*	**MA****		Electroless Nickel, Matte
T*	**MT**		Nickel-PTFE
F	**ME**		Electroless Nickel
AA	**MN**		MegaNickel
V	**TZ**		Tin-Zinc
Z*	**ZR**		Zinc Ni, Black (Tri-Valent CR)
K*	**Z1**	Stainless Steel	Passivate
L*	**ZL**		Electrodeposited Nickel

* = Glenair Equivalent Only

** = Connectors for space applications must be ordered with "MA" finish and mod code "-186T" to conform to the thermal vacuum outgassing requirements of class G.

TABLE II - CONNECTOR STYLE

Sym	Description
D0	Receptacle, wall-mount with round holes, standard stand-off thread
M0	Receptacle, wall-mount with round holes, metric stand-off thread
CM	Receptacle, wall-mount with metric clinch nuts
CS	Receptacle, wall-mount with standard clinch nuts
HM	Receptacle, wall-mount with metric helicoil
HS	Receptacle, wall-mount with standard helicoils
07	Receptacle, jam nut mount standard stand-off thread
17	Receptacle, jam nut mount metric stand-off thread

TABLE VI - PC TAIL

Contact Size	PC Tail ØM
#23	.020 (0.51) .018 (0.46)
#22	.020 (0.51) .018 (0.46)
#20	.030 (0.76) .028 (0.71)
#16	.040 (1.02) .038 (0.97)
#12	.072 (1.83) .070 (1.78)

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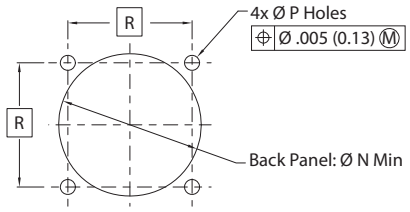
TABLE IV - MOUNTING HOLES



RECOMMENDED MOUNTING HOLES
FOR WALL MOUNT RECEPTACLES

Size Code	Shell Size	ØN Min	ØP Holes	R Bsc
B	11	0.796 (20.22)	.133 (3.38) .123 (3.12)	0.812 (20.62)
C	13	0.922 (23.42)		0.906 (23.01)
D	15	1.047 (26.59)		0.969 (24.61)
E	17	1.219 (30.96)		1.062 (26.97)
F	19	1.297 (32.94)		1.156 (29.36)
G	21	1.422 (36.12)		1.250 (31.75)
H	23	1.547 (39.29)	.159 (4.04) .149 (3.78)	1.375 (34.93)
J	25	1.672 (42.47)	.155 (3.94) .145 (3.68)	1.500 (38.10)

TABLE V - SHELL SIZE

Size Code	Shell Size	ØA	B Sq	B' Sq	C Bsc	D	D'	ØE	E' HS/CS	E' HM/CM	ØF Min	G Bsc
B	11	.793 (20.14) .778 (19.76)	1.051 (26.70) 1.008 (25.60)	1.187 (30.15) 1.147 (29.13)	0.812 (20.62)	.102 (2.59) .083 (2.11)	.180 (4.57) .150 (3.81)	.137 (3.48) .123 (3.12)	#4-40 UNC	M3 X0.5	0.468 (11.89)	0.719 (18.26)
C	13	.919 (23.34) .904 (22.96)	1.145 (29.08) 1.103 (28.02)	1.281 (32.54) 1.241 (31.52)	0.906 (23.01)						0.572 (14.53)	0.812 (20.62)
D	15	1.044 (26.52) 1.029 (26.14)	1.240 (31.50) 1.197 (30.40)	1.344 (34.14) 1.304 (33.12)	0.969 (24.61)						0.705 (17.91)	0.906 (23.01)
E	17	1.170 (29.72) 1.155 (29.34)	1.334 (33.88) 1.292 (32.82)	1.437 (36.50) 1.397 (35.48)	1.062 (26.97)						0.830 (21.08)	1.030 (26.16)
F	19	1.294 (32.87) 1.279 (32.49)	1.460 (37.08) 1.418 (36.02)	1.531 (38.89) 1.491 (37.87)	1.156 (29.36)						0.934 (23.72)	1.150 (29.21)
G	21	1.419 (36.04) 1.404 (35.66)	1.582 (40.18) 1.540 (39.12)	1.625 (41.28) 1.585 (40.26)	1.250 (31.75)						1.055 (26.80)	1.221 (31.01)
H	23	1.544 (39.22) 1.529 (38.84)	1.708 (43.38) 1.666 (42.32)	1.750 (44.45) 1.710 (43.43)	1.375 (34.93)	.133 (3.38) .115 (2.92)	.190 (4.83) .170 (4.32)	.157 (3.99) .142 (3.61)	#6-32 UNC	M4 X0.7	1.160 (29.46)	1.360 (34.54)
J	25	1.669 (42.39) 1.654 (42.01)	1.834 (46.58) 1.792 (45.52)	1.875 (47.63) 1.835 (46.61)	1.500 (38.10)						1.307 (33.20)	1.475 (37.47)

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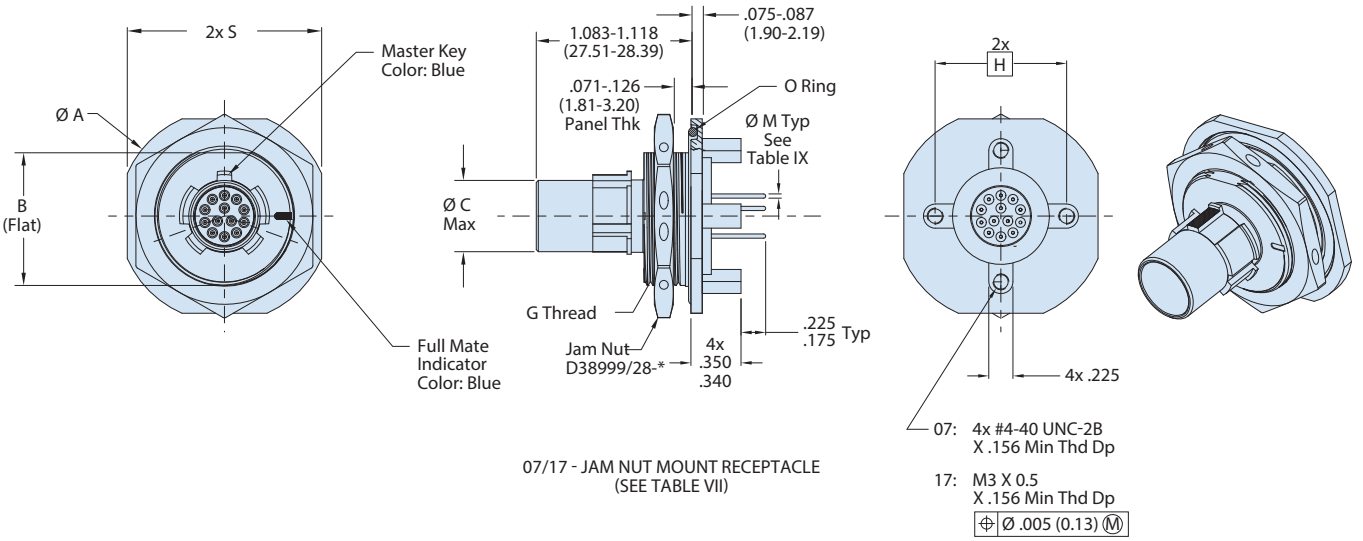
TABLE VII - JAM NUT MOUNT CONFIGURATION

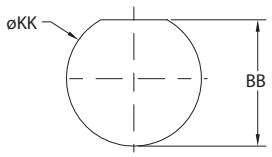


07/17 - JAM NUT MOUNT RECEPTACLE
(SEE TABLE VII)

Shell Size	Shell Size Code	ØA	B (Flat)	ØC Max	G Thread	H Basic	S	O-Ring P/N
11	B	1.520 (38.6) 1.480 (37.6)	.942 (23.93) .935 (23.74)	.509 (12.93)	M25 X 1.0-6g 0.100R	0.719	1.394 (35.4) 1.354 (34.4)	AS3582-024
13	C	1.642 (41.7) 1.602 (40.7)	1.066 (27.08) 1.059 (26.89)	.634 (16.10)	M28 X 1.0-6g 0.100R	0.812	1.520 (38.6) 1.480 (37.6)	AS3582-026
15	D	1.768 (44.9) 1.728 (43.9)	1.191 (30.26) 1.184 (30.07)	.759 (19.28)	M31 X 1.0-6g 0.100R	0.906	1.642 (41.7) 1.602 (40.7)	AS3582-028
17	E	1.957 (49.7) 1.917 (48.7)	1.321 (33.56) 1.314 (33.37)	.885 (22.48)	M34 X 1.0-6g 0.100R	1.030	1.799 (45.7) 1.760 (44.7)	AS3582-029
19	F	2.035 (51.7) 1.996 (50.7)	1.441 (36.61) 1.434 (36.42)	1.009 (25.63)	M38 X 1.0-6g 0.100R	1.150	1.909 (48.5) 1.870 (47.5)	AS3582-030
21	G	2.157 (54.8) 2.118 (53.8)	1.566 (39.78) 1.559 (39.59)	1.134 (28.80)	M41 X 1.0-6g 0.100R	1.221	2.035 (51.7) 1.996 (50.7)	AS3582-031
23	H	2.283 (58.0) 2.244 (57.0)	1.691 (42.96) 1.684 (42.77)	1.259 (31.98)	M44 X 1.0-6g 0.100R	1.360	2.157 (54.8) 2.118 (53.8)	AS3582-032
25	J	2.409 (61.2) 2.370 (60.2)	1.816 (46.13) 1.809 (45.94)	1.384 (35.15)	M47 X 1.0-6g 0.100R	1.475	2.283 (58.0) 2.244 (57.0)	AS3582-033

TABLE VIII - PANEL CUT-OUT

Shell Size	Shell Size Code	ØKK	BB
11	B	1.020 (25.91) 1.010 (25.65)	0.955 (24.26) 0.945 (24.00)
13	C	1.145 (29.08) 1.135 (28.83)	1.085 (27.56) 1.075 (27.31)
15	D	1.270 (32.26) 1.260 (32.00)	1.210 (30.73) 1.200 (30.48)
17	E	1.395 (35.43) 1.385 (35.18)	1.335 (33.91) 1.325 (33.66)
19	F	1.520 (38.61) 1.510 (38.35)	1.460 (37.08) 1.450 (36.83)
21	G	1.645 (41.78) 1.635 (41.53)	1.585 (40.26) 1.575 (40.01)
23	H	1.770 (44.96) 1.760 (44.70)	1.710 (43.43) 1.700 (43.18)
25	J	1.895 (48.13) 1.885 (47.88)	1.835 (46.61) 1.825 (46.36)



Jam-Nut Receptacle
Recommended panel cut-out

TABLE IX - PC TAIL

Contact Size	PC Tail ØM
#23	.020 (0.51) .018 (0.46)
#22	.020 (0.51) .018 (0.46)
#20	.030 (0.76) .028 (0.71)
#16	.040 (1.02) .038 (0.97)
#12	.072 (1.83) .070 (1.78)

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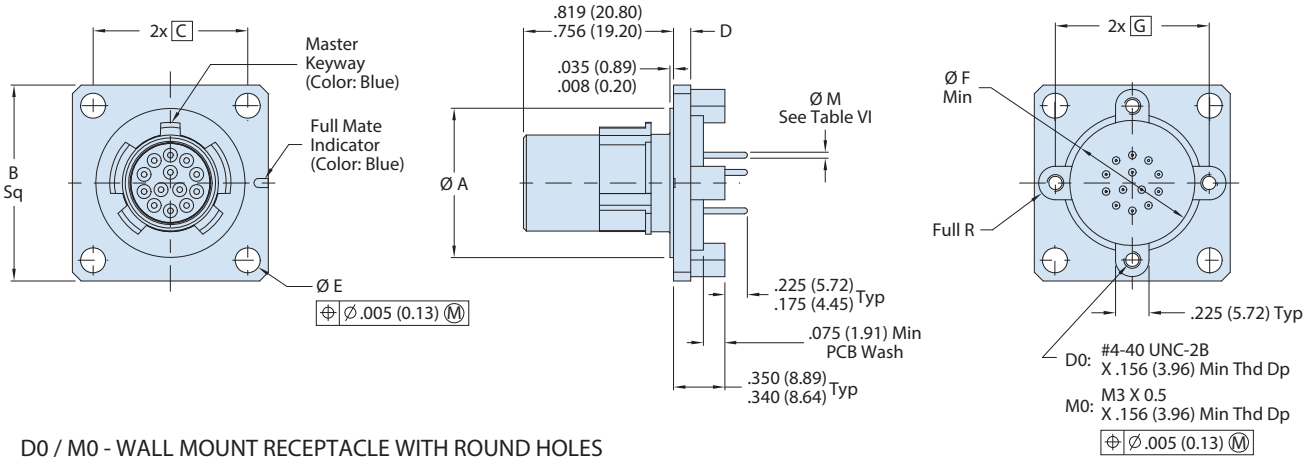
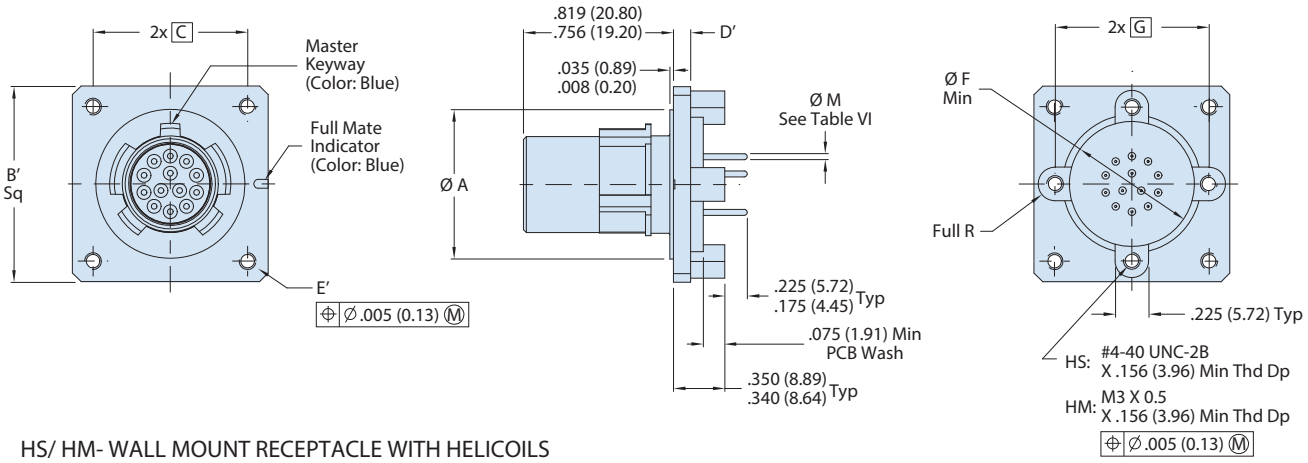
WALL MOUNT RECEPTACLE 234-210 -D0/M0



D0 / M0 - WALL MOUNT RECEPTACLE WITH ROUND HOLES

WALL MOUNT RECEPTACLE 234-210 -HS/HM



HS/ HM- WALL MOUNT RECEPTACLE WITH HELICOILS

NOTES

1. Material/Finish:
   - Shell, Jam Nut - See Table I
   - Contacts - Copper Alloy / See Table III
   - Insulators - High Grade Rigid Dielectric.
   - Seals - Fluorosilicone Blend.
   - Potting - Epoxy.
2. Glenair's 234-210 receptacle connector is designed to meet the applicable performance and interface requirements of MIL-DTL-38999 Series IV except as shown and/or noted. Receptacle mates with any QPL manufacturer's MIL-DTL-38999, Series IV plug having complimentary features (shell size, insert arrangement, polarization, and contact gender).
3. Glenair's 234-210 receptacle connector is designed with fixed PC tail contacts. Connector potting process meets or exceeds ingress protection rating IP67 and is environmentally sealed with a leak rate of < 1 X 10^ -4 ccHe/sec in an unmated condition.
4. Insert arrangement is in accordance with MIL-STD-1560. Arrangement shown for reference only.

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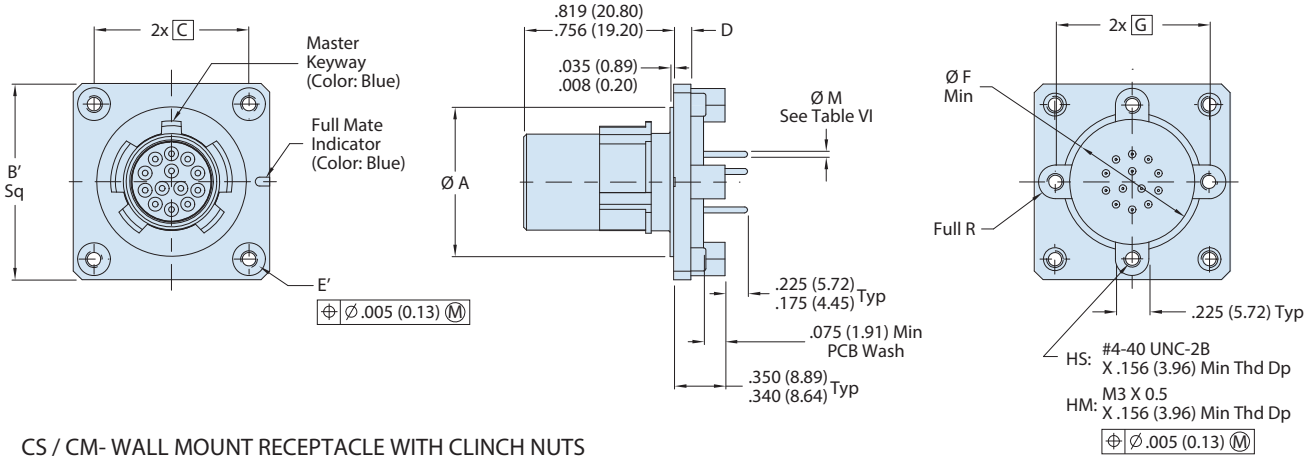
WALL MOUNT RECEPTACLE 234-210 -CS/CM



CS / CM- WALL MOUNT RECEPTACLE WITH CLINCH NUTS