SuperNine® Series IV Environmental

MIL-DTL-38999 Series IV Type
234-206 Breech-lock mating plug and receptacles

"BETTER-THAN-QPL" FEATURES AND BENEFITS

- Secure breech-lock mating connector meets D38999 shock and vibe
- Integral banding porch on plug eliminates need for add-on accessories
- Improved plug ground fingers deliver outstanding EMI performance—equal to D38999 Series III
- 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	234-206	-D0	NF	11	-35	P	N	-T
Basic Part Number	**234-206**							
Connector Style	(See Table II)							
Material/Finish	(See Table I)							
Connector Size	**B, C, D, E, F, G, H, J**							
Insert Arrangement	PER MIL-STD-1560							
Contact Style	(See Table III)							
Alternate Polarization	**A, B, C, D, K, L, M, R, N** = Normal							
Wing Nut Profile	**-T** = For shrink boot option (See Table VI) Omit for no boot							

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,
05	In-line receptacle
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
G6	Plug, EMI spring

TABLE III - CONTACT STYLE

Sym	Description
P	Pin, Gold
S	Socket, Gold
H	Pin, Pd/Ni
J	Socket, Pd/Ni
A	Pin Insert, Less Pin Contacts
B	Socket Insert, Less Socket Contacts

TABLE VI - SHRINK BOOTS

Shell Size Code	Shell Size	Part Number
B	11	770-003S103W1
C	13	770-003S103W1
D	15	770-003S105W1
E	17	770-003S105W1
F	19	770-003S106W1
G	21	770-003S106W1
H	23	770-003S107W1
J	25	770-003S107W1

MIL-DTL-38999 Series IV Type
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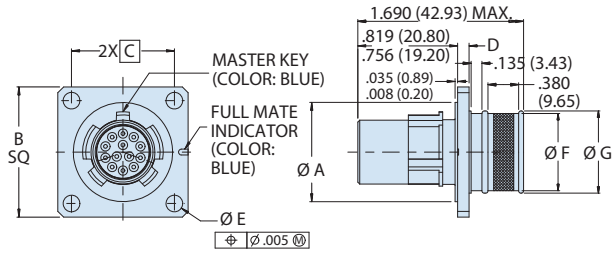
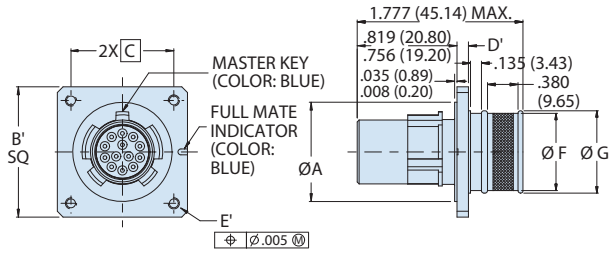
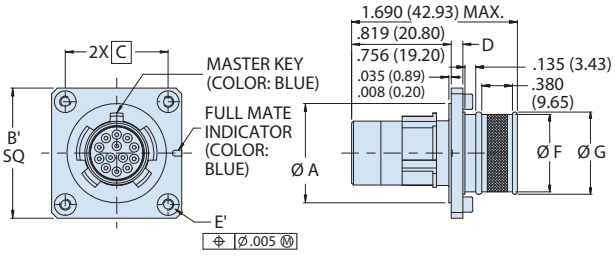
TABLE V - WALL-MOUNT AND IN-LINE RECEPTACLE DIMENSIONS



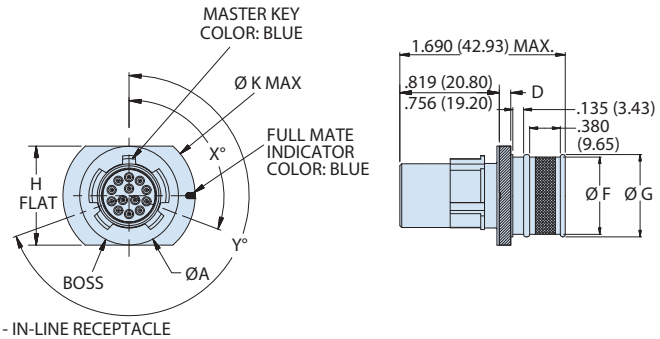
D0 - WALL MOUNT RECEPTACLE WITH ROUND HOLES



HS / HM - WALL MOUNT RECEPTACLE WITH HELICOILS



CS / CM - WALL MOUNT RECEPTACLE WITH CLINCH NUTS

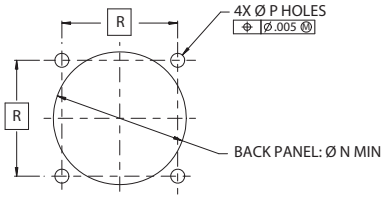


05 - IN-LINE RECEPTACLE

Size Code	Shell Size	ØA	B SQ	B' SQ	C BSC	D	D'	ØE	E'		ØF	ØG	H Flat	ØK Max.
									HS/CS	HM/CM				
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	0.600 (15.24)	0.648 (16.46)	0.785 (19.94)	1.054 (26.77)
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)						0.700 (17.78)	0.762 (19.35)	0.911 (23.14)	1.226 (31.14)
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)						0.835 (21.21)	0.898 (22.81)	1.036 (26.31)	1.351 (34.32)
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)						0.960 (24.38)	1.022 (25.96)	1.162 (29.51)	1.476 (37.49)
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)						1.062 (26.97)	1.125 (28.58)	1.286 (32.66)	1.586 (40.28)
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)	.133 (3.38) .115 (2.92)					1.188 (30.18)	1.250 (31.75)	1.411 (35.84)	1.711 (43.46)
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)		.190 (4.83) .170 (4.32)	.157 (3.99) .142 (3.61)	#6-32 UNC	M4 X0.7	1.275 (32.39)	1.338 (33.99)	1.536 (39.01)	1.836 (46.63)
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)						1.475 (37.47)	1.528 (38.81)	1.661 (42.19)	1.964 (49.89)

TABLE IV - MOUNTING HOLES

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)



RECOMMENDED MOUNTING HOLES FOR WALL MOUNT RECEPTACLES

MIL-DTL-38999 Series IV Type
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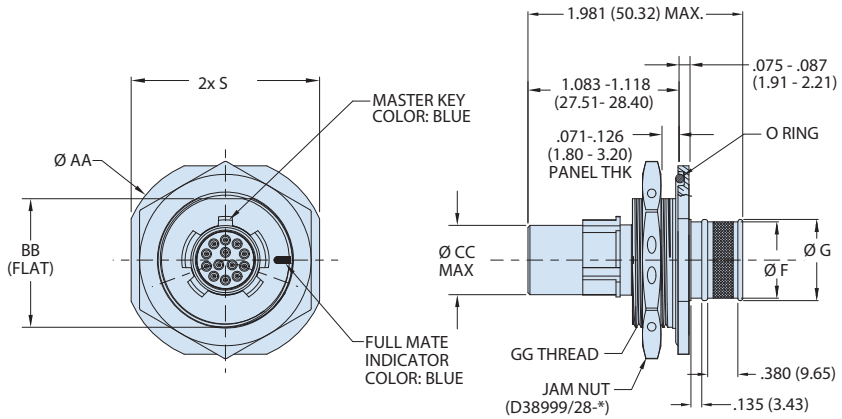
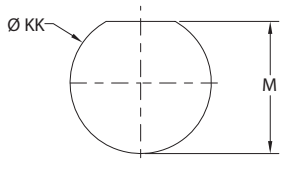
TABLE VII - JAM NUT MOUNT RECEPTACLE DIMENSIONS



07 - JAM NUT MOUNT RECETPACLE

Shell Size	Shell Size Code	ØAA	BB (Flat)	ØCC Max	GG Thread	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	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	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	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	1.799 (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	1.909 (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	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	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	2.283 (58.0) 2.244 (57.0)	AS3582-033

TABLE VIII - JAM-NUT MOUNT RECEPTACLE PANEL CUT-OUT



JAM-NUT RECEPTACLE
RECOMMENDED PANEL CUT-OUT

Shell Size	Shell Size Code	ØKK	M
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)

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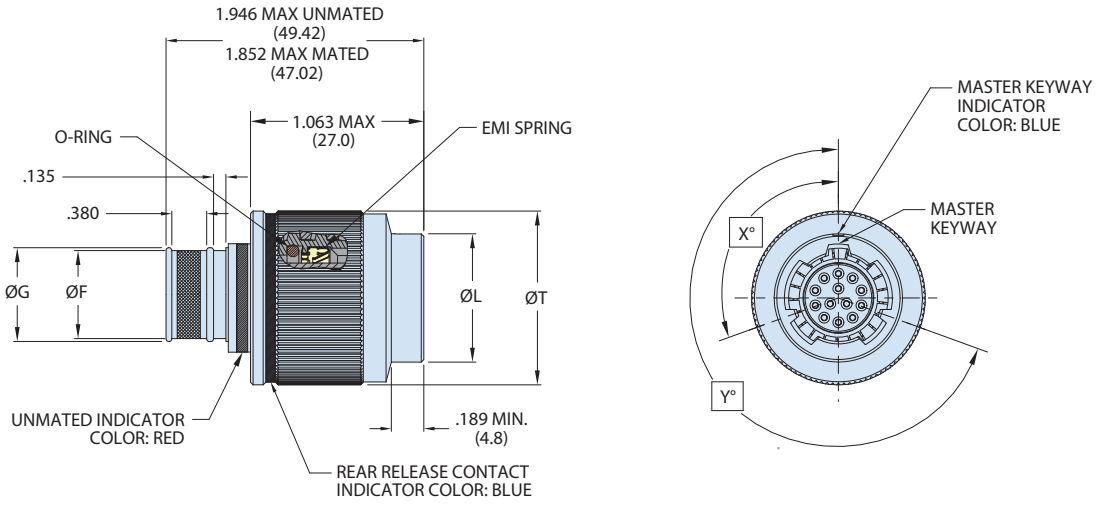
PLUG, BREECH COUPLING DIMENSIONS



G6 - PLUG, EMI SPRING

Shell Size	Shell Size Code	ØL Max	ØT Max
11	B	.776 (19.7)	1.047 (26.6)
13	C	.902 (22.9)	1.220 (31.0)
15	D	1.039 (26.4)	1.346 (34.2)
17	E	1.150 (29.2)	1.472 (37.4)
19	F	1.276 (32.4)	1.583 (40.2)
21	G	1.402 (35.6)	1.705 (43.3)
23	H	1.528 (38.8)	1.831 (46.5)
25	J	1.650 (41.9)	1.957 (49.7)

TABLE B - POLARIZING POSITIONS

	N	A	B	C	D	K	L	M	R	U
X	110°	100°	90°	80°	70°	120°	120°	120°	120°	N/A
Y	250°	260°	270°	280°	290°	255°	265°	275°	285°	N/A

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 234-206 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 234-206 connectors are designed to withstand a minimum of 1500 mating durability cycles when mated to a "super nine" mating connector and appropriate contacts applicable to all signal contact layouts only. High speed contacts are not intended for extended durability. Finish should be the same for both mating connectors to optimize performance..
4. Insert arrangement is in accordance with MIL-STD-1560. Arrangement shown for reference only.
5. Connector is supplied with contacts (including spares), insertion/removal tool, and sealing plugs where inidcated in Table III.