SuperNine® Series IV Environmental

MIL-DTL-38999 Series IV Type
234-207-07 Jam nut receptacle with PC tails, no standoff

ENVIRONMENTAL CONNECTORS

HOW TO ORDER								
Sample Part Number	**234-207**	**-07**	**NF**	**11**	**-35**	**P**	**N**	
Basic Part Number	**234-207**							
Connector Style	07- Receptacle, Jam Nut							
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 Contacts, Gold Plate, 1500 Cycles **S** = Socket Contact Gold Plate, 1500 Cycles **H** = Pin Contacts Pd/Ni, 1500 Cycles **J** = Socket Contact Pd/Ni, 1500 Cycles							
Alternate Polarization	**A**, **B**, **C**, **D**, **K**, **L**, **M**, **R**, **N** = Normal, **U** = Universal (Glenair Equivalent Only)							

TABLE III

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)

"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

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

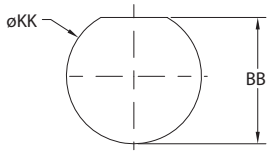
** = Connectors for space applications must be ordered with "MA" finish and mod code "-186T" to conform to the thermal vacuum outgassing requirements of class G.

TABLE IV - 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

TABLE V - 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

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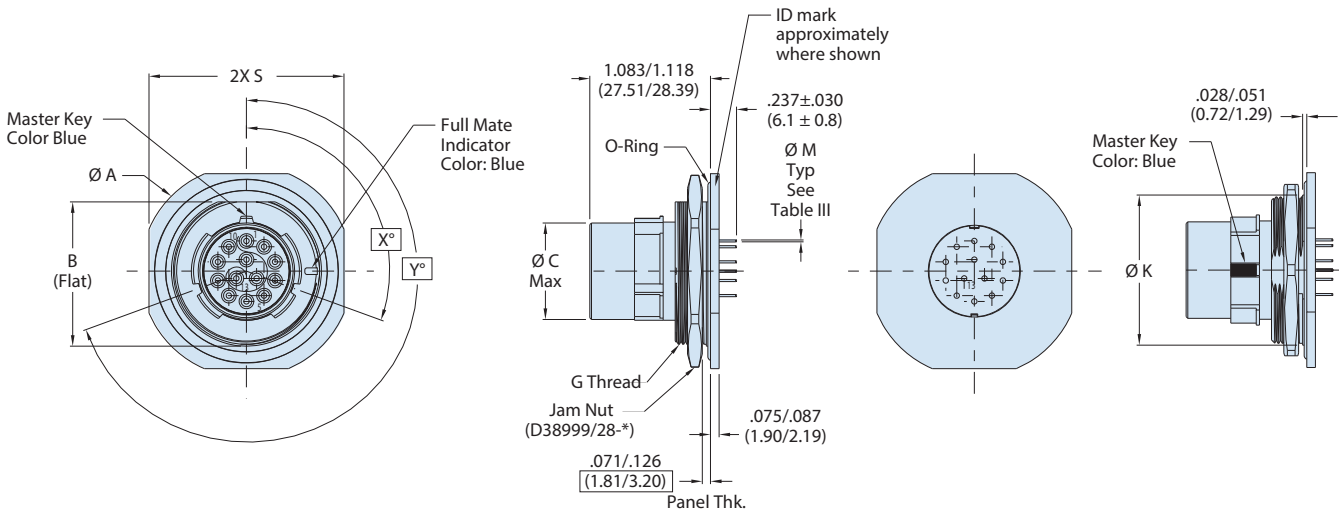
TABLE II - JAM NUT RECEPTACLE 234-207-07 DIMENSIONS



Jam-Nut Receptacle
(REF: MIL-DTL-38999/44)

Shell Size	Shell Size Code	ØA	B (Flat)	ØC Max	G Thread	ØK	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 1.0-6g 0.100R	1.000 (25.40) .990 (25.15)	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 1.0-6g 0.100R	1.125 (28.58) 1.115 (28.33)	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 1.0-6g 0.100R	1.250 (31.75) 1.240 (31.50)	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 1.0-6g 0.100R	1.375 (34.92) 1.365 (34.67)	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 1.0-6g 0.100R	1.500 (38.10) 1.490 (37.85)	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 1.0-6g 0.100R	1.625 (41.28) 1.615 (41.03)	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 1.0-6g 0.100R	1.750 (44.45) 1.740 (44.20)	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 1.0-6g 0.100R	1.875 (47.63) 1.865 (47.38)	2.283 (58.0) 2.244 (57.0)	AS3582-033

NOTES

1. Material/Finish:
   - Shell Finish - See Table I
   - Insulator - High Grade Rigid Dielectric
   - Contacts - Copper Alloy
   - Potting - Epoxy.
2. Insert arrangement in accordance with MIL-STD-1560. Contact factory for additional insert arrangements.
3. Insert arrangement shown is for reference only.
4. Glenair 234-207-07 series connectors are designed to meet the applicable performance and interface requirements of MIL-DTL-38999, Series IV except as noted. Connector mates with any QPL manufacturer's MIL-DTL-38999 Series IV connectors with the same size insert, arrangement, and polarization.
5. Glenair's 234-207-07 receptacle connector is designed to withstand a minimum of 1500 mating durability cycles when mate to a "Super Nine" plug and appropriate contacts finish should be the same for both mating connectors to optimize performance.