231-104-E9
Jam Nut Mount Environmental Plug/Receptacle Bulkhead Feed-Thru
for MIL-DTL-38999 Series I Type

Glenair®

Connector Series
231 - D38999 Series I Type

Connector Type
104 - Env. Bulkhead Feed-Thru

Shell Size
09
11
13
15
17
19
21
23
25

Insert Arrangement
Per MIL-DTL-38999 Series I
MIL-STD-1560

Contact Termination
P - Pin on jam-nut side
S - Socket on jam-nut side
PP - Pins on both sides
SS - Sockets on both sides

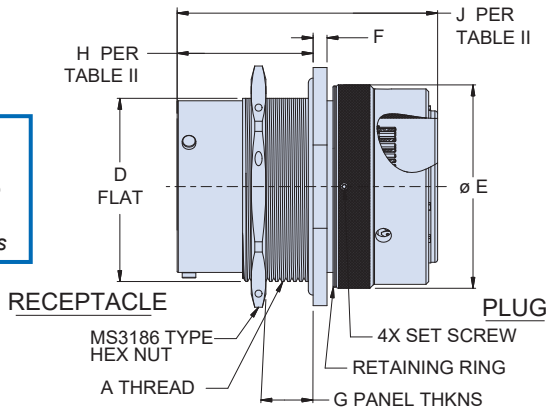
231 - 104 - E9 M 11 - 35 P N - 01

Shell Style
E9 - Jam Nut Mount "Sav-Con"

Alternate Key Position
A, B, C, D
(*N* = Normal)

Connector Material and Finish
M - Aluminum / Electroless Nickel (Inactive for new design)
ME - Aluminum/Electroless Nickel
ZR - Aluminum/Nickel PTFE
NF - Cad / O.D. Over Electroless Nickel
MT - Aluminum / Ni-PTFE
TZ - Aluminum / Tin Zinc
MN - Aluminum / Mega Nickel

Panel Thickness
SEE TABLE II



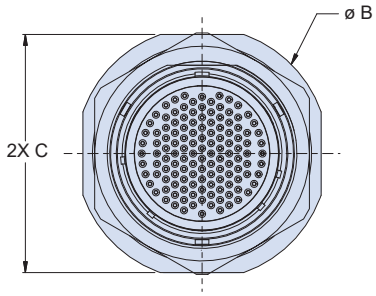


TABLE II: PANEL ACCOMMODATION

SYM	G	H MAX	J MAX
01	.062-.125	.920	2.050
02	.062-.250	1.050	2.250
03	.062-.500	1.300	2.400

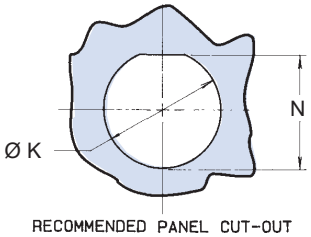


TABLE I: CONNECTOR DIMENSIONS

SHELL SIZE	A THREAD CLASS 2A	Ø B	C A/F	D Flat	Ø E Max	F	Ø K	N
9	.6875-24 UNEF	1.204 (30.58) 1.172 (29.77)	1.078 (27.38) 1.046 (26.57)	.655 (16.64) .645 (16.38)	.859 (21.82)	.125 (3.18) .093 (2.36)	.703 (17.86) .693 (17.60)	.661 (16.79) .653 (16.59)
11	.8125-20 UNEF	1.391 (35.33) 1.359 (34.52)	1.266 (32.16) 1.234 (31.34)	0.755 (19.18) 0.745 (18.92)	0.984 (24.99)	0.125 (3.18) 0.093 (2.36)	0.835 (21.21) 0.825 (20.96)	0.771 (19.58) 0.761 (19.33)
13	1.000-20 UNEF	1.516 (38.51) 1.484 (37.69)	1.391 (35.33) 1.359 (34.52)	0.942 (23.93) 0.932 (23.67)	1.156 (29.36)	0.125 (3.18) 0.093 (2.36)	1.020 (25.91) 1.010 (25.65)	0.955 (24.26) 0.945 (24.00)
15	1.125-18 UNEF	1.641 (41.68) 1.609 (40.87)	1.516 (38.51) 1.484 (37.69)	1.066 (27.08) 1.056 (26.82)	1.281 (32.54)	0.125 (3.18) 0.093 (2.36)	1.145 (29.08) 1.135 (28.83)	1.085 (27.56) 1.075 (27.31)
17	1.250-18 UNEF	1.766 (44.86) 1.734 (44.04)	1.641 (41.68) 1.609 (40.87)	1.191 (30.25) 1.181 (30.00)	1.406 (35.71)	0.125 (3.18) 0.093 (2.36)	1.270 (32.26) 1.260 (32.00)	1.210 (30.73) 1.200 (30.48)
19	1.375-18 UNEF	1.954 (49.63) 1.922 (48.82)	1.828 (46.43) 1.796 (45.62)	1.316 (33.43) 1.306 (33.17)	1.516 (38.51)	0.156 (3.96) 0.093 (2.36)	1.395 (35.43) 1.385 (35.18)	1.335 (33.91) 1.325 (33.66)
21	1.500-18 UNEF	2.078 (52.78) 2.046 (51.97)	1.954 (49.63) 1.922 (48.82)	1.441 (36.60) 1.431 (36.35)	1.641 (41.68)	0.156 (3.96) 0.093 (2.36)	1.520 (38.61) 1.510 (38.35)	1.460 (37.08) 1.450 (36.83)
23	1.625-18 UNEF	2.204 (55.98) 2.172 (55.17)	2.078 (52.78) 2.046 (51.97)	1.566 (39.78) 1.556 (39.52)	1.766 (44.86)	0.156 (3.96) 0.093 (2.36)	1.645 (41.78) 1.635 (41.53)	1.585 (40.26) 1.575 (40.01)
25	1.750-18 UNS	2.328 (59.13) 2.296 (58.32)	2.204 (55.98) 2.172 (55.17)	1.691 (42.95) 1.681 (42.70)	1.891 (48.03)	0.156 (3.96) 0.093 (2.36)	1.770 (44.96) 1.760 (44.70)	1.710 (43.43) 1.700 (43.18)

APPLICATION NOTES

1. Material/finish:
   Shell assembly, coupling nut, jam nut, lock ring—Aluminum Alloy, See Part Number Development
   Retaining ring—Ni-Al bronze/clean only
   Contacts—Copper alloy/gold plate
   Bayonet pins, wave washer—CRES/passivate
   O-Ring, interfacial and peripheral seals—fluorosilicone blend/N.A.
   Insulators—High grade rigid dielectric/N/A.
   Ground Ring—Beryllium copper/gold plate
2. Metric Dimensions (mm) are indicated in parentheses.

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