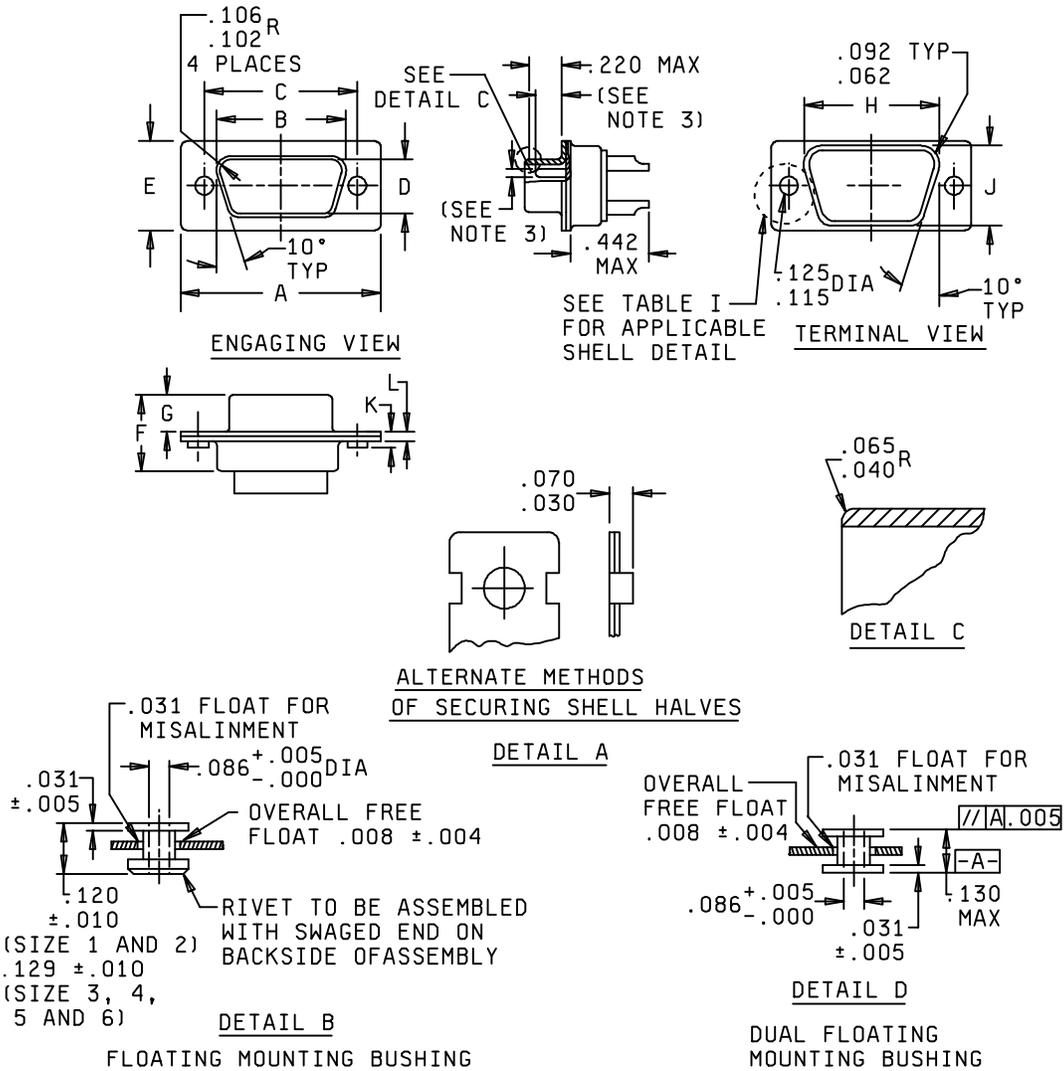


DETAIL SPECIFICATION SHEET

CONNECTORS, ELECTRIC, RECTANGULAR, MINIATURE,
 POLARIZED SHELL, RACK AND PANEL, PIN CONTACTS,
 GENERAL PURPOSE, CLASS D AND G, SOLDER TYPE

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification sheet and MIL-DTL-24308.



MIL-DTL-24308/3G

Detail 1/	Shell size	Dimensions											
		A	B	C	D	E	F	G	H	J	K	L	
A	1	1.228 (31.19)	.671 (17.04)	.989 (25.12)	.334 (8.48)	.509 (12.93)	.432 (10.97)	.238 (6.05)	.769 (19.53)	.432 (10.97)	.060 (1.52)	.040 (1.02)	
		1.198 (30.43)	.661 (16.79)	.979 (24.87)	.324 (8.23)	.479 (12.17)	.412 (10.46)	.229 (5.82)	.749 (19.02)	.412 (10.46)	.035 (.89)	.020 (.51)	
		1.556 (39.52)	.999 (25.37)	1.317 (33.45)	.334 (8.48)	.509 (12.93)	.432 (10.97)	.238 (6.05)	1.093 (27.76)	.432 (10.97)	.060 (1.52)	.040 (1.02)	
	2	1.526 (38.76)	.989 (25.12)	1.307 (33.20)	.324 (8.23)	.479 (12.17)	.412 (10.46)	.229 (5.82)	1.073 (27.25)	.412 (10.46)	.035 (.89)	.020 (.51)	
		2.103 (53.42)	1.539 (39.09)	1.857 (47.17)	.334 (8.48)	.509 (12.93)	.436 (11.07)	.238 (6.05)	1.635 (41.53)	.432 (10.97)	.070 (1.78)	.049 (1.25)	
		2.073 (52.65)	1.529 (38.84)	1.847 (46.91)	.324 (8.23)	.479 (12.17)	.416 (10.57)	.229 (5.82)	1.615 (41.02)	.412 (10.46)	.050 (1.27)	.029 (.74)	
	3	2.744 (69.76)	2.187 (55.55)	2.505 (63.63)	.334 (8.48)	.509 (12.93)	.436 (11.07)	.238 (6.05)	2.282 (57.96)	.432 (10.97)	.070 (1.78)	.049 (1.25)	
		2.714 (68.94)	2.177 (55.30)	2.495 (63.37)	.324 (8.23)	.479 (12.17)	.416 (10.57)	.229 (5.82)	2.262 (57.45)	.412 (10.46)	.050 (1.27)	.029 (.74)	
		2.650 (67.31)	2.084 (52.93)	2.411 (61.24)	.446 (11.33)	.620 (15.75)	.436 (11.07)	.238 (6.05)	2.188 (55.58)	.544 (13.82)	.070 (1.78)	.049 (1.25)	
	4	2.620 (66.55)	2.074 (52.68)	2.401 (60.99)	.436 (11.07)	.590 (14.99)	.416 (10.57)	.229 (5.82)	2.168 (55.07)	.524 (13.31)	.050 (1.27)	.029 (.74)	
		2.744 (69.70)	2.217 (56.31)	2.505 (63.63)	.508 (12.90)	.683 (17.35)	.436 (11.07)	.238 (6.05)	2.312 (58.72)	.606 (15.39)	.070 (1.78)	.049 (1.25)	
		2.714 (68.94)	2.207 (56.06)	2.495 (63.37)	.498 (12.65)	.653 (16.59)	.416 (10.57)	.229 (5.82)	2.292 (58.22)	.586 (14.88)	.050 (1.27)	.029 (.74)	
	B 2/	1	Same as detail A, shell size 1 except in accordance with detail B.										
		2	Same as detail A, shell size 2 except in accordance with detail B.										
		3	Same as detail A, shell size 3 except in accordance with detail B.										
		4	Same as detail A, shell size 4 except in accordance with detail B.										
		5	Same as detail A, shell size 5 except in accordance with detail B.										
		6	Same as detail A, shell size 6 except in accordance with detail B.										
D	1	Same as detail A, shell size 1 except in accordance with detail D.											
	2	Same as detail A, shell size 2 except in accordance with detail D.											
	3	Same as detail A, shell size 3 except in accordance with detail D.											
	4	Same as detail A, shell size 4 except in accordance with detail D.											
	5	Same as detail A, shell size 5 except in accordance with detail D.											
	6	Same as detail A, shell size 6 except in accordance with detail D.											

1/ See table II for supersession data.

2/ Detail B is inactive for new design, use detail D.

FIGURE 1. Shell, plug, solder type.

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are in parentheses and are for general information only.
3. Pin diameter .041/.039 (1.04/0.99mm) for arrangements A-1-1, A-2-1, A-3-1, A-4-1, A-5-1. Pin diameter .0305/.0295 (0.775/0.749mm) for arrangements A-1-2, A-2-2, A-3-2, A-4-2, A-5-2 and A-6-1.
4. Patent notice. The Government has a royalty free license under the U.S. Patents listed below for the benefit of manufacturers of the items disclosed and described herein, either for the Government or for use in equipment delivered to the Government.

Patent numbers

2790153 expires April 23, 1974
 3110093 expires November 12, 1980
 3158424 expires November 24, 1981

5. Copyright notice. All information disclosed in this military specification which is of may be copyrighted by ITT Cannon Electric is reproduced herein with the express permission of the copyright owner.
6. Dimensions are .150 (3.81 mm) minimum full pin diameter extension (sizes 3 through 6) and .159 (4.04 mm) minimum full pin diameter extension (sizes 1 and 2).

Inches	mm	Inches	mm	Inches	mm
.004	0.10	.062	1.57	.115	2.92
.005	0.13	.065	1.65	.120	3.05
.008	0.20	.070	1.78	.125	3.18
.010	0.25	.086	2.18	.129	3.28
.030	0.76	.092	2.34	.130	3.30
.031	0.79	.102	2.59	.220	5.59
.040	1.02	.106	2.69	.422	10.72

FIGURE 1. Shell plug solder type – Continued.

MIL-DTL-24308/3G

REQUIREMENTS:

The connectors shall conform to figure 1 and the specification Part or Identifying Numbers (PIN) indicated in table I.

TABLE I. Design standards. 1/

PIN Class G	PIN Class D	Shell size	Shell Detail (see figure 1)	Insert arrangement reference number 3/	Contact PIN 4/
M24308/3-1	M24308/3-23	1	A	A-1-1	B2
M24308/3-2	M24308/3-24	2	A	A-2-1	B2
M24308/3-3	M24308/3-25	3	A	A-3-1	B2
M24308/3-4	M24308/3-26	4	A	A-4-1	B2
M24308/3-5	M24308/3-27	5	A	A-5-1	B2
2/					
M24308/3-12	M24308/3-34	1	B	A-1-1	B2
M24308/3-13	M24308/3-35	2	B	A-2-1	B2
M24308/3-14	M24308/3-36	3	B	A-3-1	B2
M24308/3-15	M24308/3-37	4	B	A-4-1	B2
M24308/3-16	M24308/3-38	5	B	A-5-1	B2
2/					
M24308/3-17	M24308/3-39	1	D	A-1-1	B2
M24308/3-18	M24308/3-40	2	D	A-2-1	B2
M24308/3-19	M24308/3-41	3	D	A-3-1	B2
M24308/3-20	M24308/3-42	4	D	A-4-1	B2
M24308/3-21	M24308/3-43	5	D	A-5-1	B2

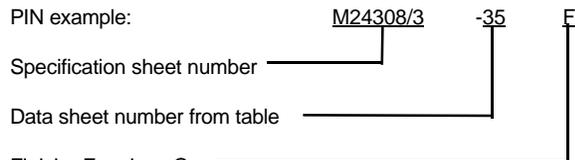
1/ These connectors mate with connectors specified in MIL-DTL-24308/1, MIL-DTL-24308/2, and MIL-DTL-24308/23.

2/ PINs M24308/3-12 through M24308/3-16 and M24308/3-34 through M24308/3-38 are inactive for new design, see M24308/3-17 through M24308/3-21 and M24308/3-39 through M24308/3-43.

3/ For insert arrangement see MIL-DTL-24308, Appendix A.

4/ For contact see MIL-DTL-24308, Appendix B.

PIN: Consists of the letter M, the basic number of the specification sheet, and a dash number compiled from the code.



Finish: For class G:
 F = Cadmium.
 No suffix = Zinc
 For class D:
 Class D connectors have a nickel finish, no suffix is required.

Supersession data: See table II.

TABLE II. Shell supersession data.

Shell detail (see figure 1)	Superseded MS sheet
Detail A	MS18268-1 through -5
Detail B	MS18268-7 through -11
Detail C	MS18268-13 through -17

CONCLUDING MATERIAL

Custodians:

Army - CR
Navy - EC
Air Force - 11
NASA - NA
DLA - CC

Review activities:

Army - AV, MI, AT, CR-4
Navy - AS, CG, MC, SH
Air Force - 99

Preparing activity:
DLA - CC

(Project: 5935-4249)