INCH-POUND

MIL-DTL-24308/1H
2 November 1999
SUPERSEDING
MIL-PRF-24308/1G
2 December 1996

DETAIL SPECIFICATION SHEET

CONNECTORS, ELECTRIC, RECTANGULAR, MINIATURE, POLARIZED SHELL, RACK AND PANEL, RECEPTACLE, SOCKET 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.

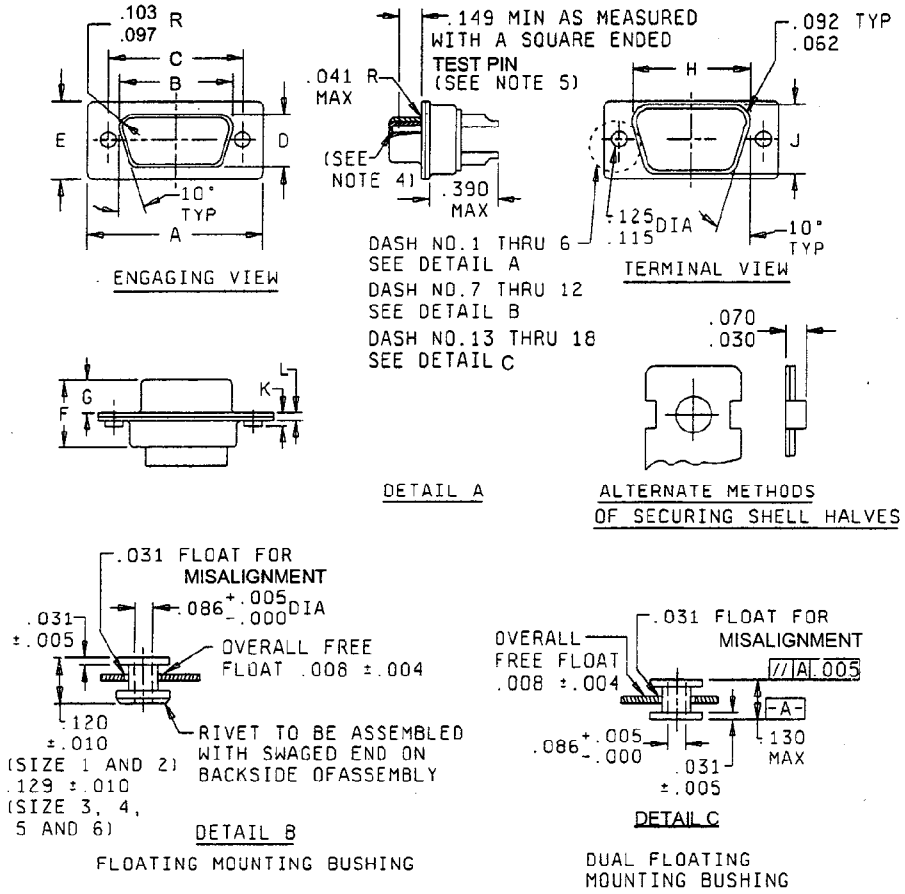

FIGURE 1. Shell, receptacle

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Detail 1/	Shell size	Dimensions										
		A	B	C	D	E	F	G	H	J	K	L
A	1	1.228 (31.19) 1.198 (30.43)	.648 (16.46) .638 (16.21)	.989 (25.12) .979 (24.87)	.316 (8.03) .302 (7.77)	.509 (12.93) .479 (12.17)	.439 (11.15) .419 (10.54)	.248 (6.30) .238 (6.05	.769 (19.53) .749 (19.02)	.432 (10.97) .412 (10.46)	.060 (1.52) .035 (.89)	.040 (1.02) .020 (.51)
	2	1.556 (39.52) 1.526 (38.76)	.976 (24.79) .966 (24.79)	1.317 (33.45) 1.307 (33.20)	.316 (8.03) .302 (7.77)	.509 (12.93) .479 (12.17)	.439 (11.15) .419 (10.54)	.248 (6.30) .238 (6.05	1.093 (27.76) 1.073 (27.25)	.432 (10.97) .412 (10.46)	.060 (1.52) .035 (.89)	.040 (1.02) .020 (.51)
	3	2.103 (53.42) 2.073 (52.65)	1.516 (38.51) 1.506 (38.25)	1.857 (47.17) 1.847 (46.91)	.316 (8.03) .302 (7.77)	.509 (12.93) .479 (12.17)	.439 (11.15) .419 (10.54)	.248 (6.30) .238 (6.05	1.635 (41.53) 1.615 (41.02)	.432 (10.97) .412 (10.46)	.060 (1.52) .035 (.89)	.040 (1.02) .020 (.51)
	4	2.744 (69.76) 2.714 (68.94)	2.164 (54.97) 2.154 (54.7[illegible])	2.505 (63.63) 2.495 (63.37)	.316 (8.03) .302 (7.77)	.509 (12.93) .479 (12.17)	.439 (11.15) .419 (10.54)	.248 (6.30) .238 6.05	2.282 (57.96) 2.262 57.45	.432 (10.97) .412 [illegible]	.060 (1.52) 035 [illegible]	.040 (1.02) .020 [illegible]
	5	2.650 (67.31) 2.620 (66.55)	2.069 (52.55) 2.059 (52.30)	2.411 (61.24) 2.401 (60.99)	.428 (10.87) .418 (10.62)	.620 (15.75) .590 (14.99)	.439 (11.15) .419 (10.54)	.248 (6.30) .238 (6.05	2.188 (55.58) 2.168 (55.07)	.544 (13.82) .524 (13.31)	.060 (1.52) .035 (.89)	.040 (1.02) .020 (.51)
B 2/	1	Same as -1 except per detail B										
	2	Same as -2 except per detail B										
	3	Same as -3 except per detail B										
	4	Same as -4 except per detail B										
	5	Same as -5 except per detail B										
C	1	Same as -1 except per detail C										
	2	Same as -2 except per detail C										
	3	Same as -3 except per detail C										
	4	Same as -4 except per detail C										
	5	Same as -5 except per detail C										

1/ See table II for supersession data.
2/ Detail B is inactive for new design, usedetail C.

FIGURE 1. Shell, receptacle - Continued.

NOTES:

1. Dimensions are in inches.
2. Millimeters are in parenthesis.
3. Metric equivalents are given for general information only.
4. Accommodates a .040 (1.02) diameter pin.
5. Use .041/.039 (1.04/.99) diameter pin.
6. 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 of for use in equipment delivered to the government.

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

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Inches	mm
.004	.10
.005	.13
.008	.20
.010	.25
.030	.76
.031	.79
.041	1.04
.062	1.57
.070	1.78
.086	2.18
.092	2.34
.097	2.46
.103	2.62
.115	2.92
.120	3.05
.125	3.18
.129	3.28
.149	3.78
.390	9.91

FIGURE 1. Shell, receptacle - Continued.

REQUIREMENTS:

The connectors shall conform to figure 1 of this specification and Appendix A and B of MIL-DTL-24308 as indicated in table I.

TABLE I. Design standards 1/

Part or Identifying Number (PIN) Class G	PIN Class D	Shell size	Shell detail (see figure 1)	Insert arrangement reference number 3/	Contact Figure no. 4/
M24308/1-1	M24308/1-34	1	A	A-1-1	B1
M24308/1-2	M24308/1-35	2	A	A-2-1	B1
M24308/1-3	M24308/1-36	3	A	A-3-1	B1
M24308/1-4	M24308/1-37	4	A	A-4-1	B1
M24308/1-5	M24308/1-38	5	A	A-5-1	B1
M24308/1-12 2/	M24308/1-45	1	B	A-1-1	B1
M24308/1-13 2/	M24308/1-46	2	B	A-2-1	B1
M24308/1-14 2/	M24308/1-47	3	B	A-3-1	B1
M24308/1-15 2/	M24308/1-48	4	B	A-4-1	B1
M24308/1-16 2/	M24308/1-49	5	B	A-5-1	B1
M24308/1-23	M24308/1-56	1	C	A-1-1	B1
M24308/1-24	M24308/1-57	2	C	A-2-1	B1
M24308/1-25	M24308/1-58	3	C	A-3-1	B1
M24308/1-26	M24308/1-59	4	C	A-4-1	B1
M24308/1-27	M24308/1-60	5	C	A-5-1	B1

1/ These connectors mate with connectors specified in MIL-DTL-24308/3, MIL-DTL-24308/4, MIL-DTL-24308/9, and MIL-DTL-24308/24.
2/ PINs M24308/1-12 through M24308/1-16 and M24308/1-45 through M24308/1-49 are inactive for new design, use M24308/1-23 through M24308/1-27 and M24308/1-56 through M24308/1-60.
3/ For insert arrangement see MIL-DTL-24308 Appendix A
4/ For contact see MIL-DTL-24308E Appendix B.

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

PIN example: M24308/1 -26 F

Specification sheet number

Data sheet number from table I

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

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Supersession data: See table II.

TABLE II. Shell supersession data.

Shell detail (see figure 1)	Superseded MS sheet
Detail A	MS18269-1 through –5
Detail B	MS18269-7 through –11
Detail C	MS18269-13 through -17

CONCLUDING MATERIAL

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

Review activities:
Army - AT, AV, ME, MI
Navy - AS, CG, MC, SH
Air Force - 99

Preparing activity:
DLA - CC

(Project: 5935-4176-01)