

DETAIL SPECIFICATION SHEET

CONNECTORS, ELECTRIC, RECTANGULAR, MINIATURE,
POLARIZED SHELL, RACK AND PANEL, RECEPTACLE, SOCKET CONTACTS,
NONMAGNETIC, CLASS M AND N, 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.

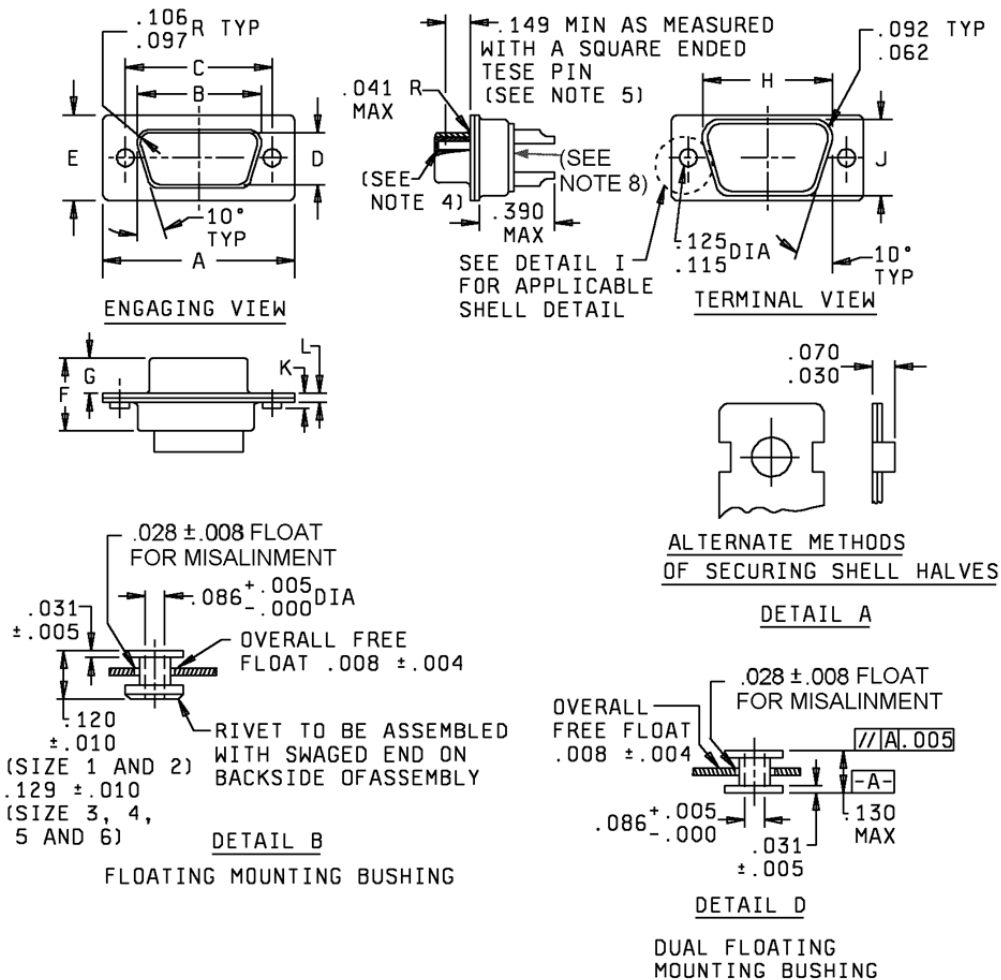


FIGURE 1. Shell, receptacle.

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Detail (See Note 8)	Shell size	Dimensions											
		A	B	C	D	E	F	G	H	J	K	L	
A	1	1.228	.648	.989	.316	.509	.439	.248	.769	.432	.060	.040	
		(31.19)	(16.46)	(25.12)	(8.03)	(12.93)	(11.15)	(6.30)	(19.53)	(10.97)	(1.52)	(1.02)	
		1.198	.638	.979	.302	.479	.419	.238	.749	.412	.035	.020	
	2	(30.43)	(16.21)	(24.87)	(7.77)	(12.17)	(10.54)	(6.05)	(19.02)	(10.46)	(.89)	(.51)	
		1.556	.976	1.317	.316	.509	.439	.248	1.093	.432	.060	.040	
		(39.52)	(24.79)	(33.45)	(8.03)	(12.93)	(11.15)	(6.30)	(27.76)	(10.97)	(1.52)	(1.02)	
	3	1.526	.966	1.307	.302	.479	.419	.238	1.073	.412	.035	.020	
		(38.76)	(24.79)	(33.20)	(7.77)	(12.17)	(10.54)	(6.05)	(27.25)	(10.46)	(.89)	(.51)	
		2.103	1.516	1.857	.316	.509	.439	.248	1.635	.432	.060	.040	
	4	(53.42)	(38.51)	(47.17)	(8.03)	(12.93)	(11.15)	(6.30)	(41.53)	(10.97)	(1.52)	(1.02)	
		2.073	1.506	1.847	.302	.479	.419	.238	1.615	.412	.035	.020	
		(52.65)	(38.25)	(46.91)	(7.77)	(12.17)	(10.54)	(6.05)	(41.02)	(10.46)	(.89)	(.51)	
	5	2.744	2.164	2.505	.316	.509	.439	.248	2.282	.432	.060	.040	
		(69.76)	(54.97)	(63.63)	(8.03)	(12.93)	(11.15)	(6.30)	(57.96)	(10.97)	(1.52)	(1.02)	
		2.714	2.154	2.495	.302	.479	.419	.238	2.262	.412	.035	.020	
	B (See note 9)	1	(68.94)	(54.71)	(63.37)	(7.77)	(12.17)	(10.54)	(6.05)	57.45	(10.46)	(.89)	(.51)
			2.650	2.069	2.411	.428	.620	.439	.248	2.188	.544	.060	.040
			(67.31)	(52.55)	(61.24)	(10.87)	(15.75)	(11.15)	(6.30)	(55.58)	(13.82)	(1.52)	(1.02)
	C	2	2.620	2.059	2.401	.418	.590	.419	.238	2.168	.524	.035	.020
			(66.55)	(52.30)	(60.99)	(10.62)	(14.99)	(10.54)	(6.05)	(55.07)	(13.31)	(.89)	(.51)
1			Same as -1 except per detail B										
2			Same as -2 except per detail B										
3			Same as -3 except per detail B										
C	3	4	Same as -4 except per detail B										
		5	Same as -5 except per detail B										
		1	Same as -1 except per detail C										
		2	Same as -2 except per detail C										
		3	Same as -3 except per detail C										
C	4	4	Same as -4 except per detail C										
		5	Same as -5 except per detail C										

FIGURE 1. Shell, receptacle - Continued.

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NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Accommodates a .040 (1.02) diameter pin.
4. Use .041/.039 (1.04/.99) diameter pin.
5. 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.

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

6. Copyright notice. All information disclosed in this military specification sheet which is or may be copyrighted by ITT Cannon Electric is reproduced herein with the express permission of the copyright owner.
7. Indentation on the ends of the termination side of the shell, for the purpose of securing the insulator in the shell, is permitted. This may result in the "F" dimension being undersized in these areas. However the "F" dimension shall be maintained for the remainder of the connector.
8. See table II for supersession data.
9. Detail B is inactive for new design, use detail C.

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.

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REQUIREMENTS:

The connectors shall conform to the design standards (MS standards) indicated in table I.

TABLE I. Design standards. ^{1/}

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

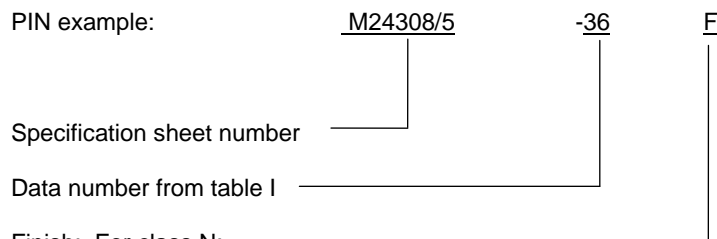
^{1/} These connectors mate with connectors specified in MIL-DTL-24308/7, MIL-DTL-24308/8, MIL-DTL-24308/9, and MIL-DTL-24308/24.

^{2/} PINs M24308/5-12 through M24308/5-16 and M24308/5-45 through M24308/5-49 are inactive for new design, use M24308/5-23 through M24308/5-27 and M24308/5-56 through M24308/5-60.

^{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 N:

- A = Pure electrodeposited aluminum.
- F = Cadmium. (Navy-SH prohibits the use of cadmium finished connectors for shipboard application)
- K = Zinc nickel.
- P = Passivated stainless steel.
- T = Nickel Fluorocarbon Polymer.
- Z or No suffix = zinc. (See MIL-DTL-24308 for disposition of stock for "No suffix" finish)

For class M:

Class M connectors have a gold 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

Amendment notations. The margins of this specification are marked with vertical lines to indicate modifications generated by this amendment. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations.

Referenced documents. In addition to MIL-DTL-24308, this document references the following:

MIL-DTL-24308/7
MIL-DTL-24308/8
MIL-DTL-24308/9
MIL-DTL-24308/24

CONCLUDING MATERIAL

Custodians:
Army - CR
Navy - EC
Air Force - 85
NASA - NA
DLA - CC

Preparing activity:
DLA - CC

(Project: 5935-2010-076)

Review activities:
Army - AV, AT, CR4, MI
Navy - AS, CG, MC, SH
Air Force - 99

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <https://assist.daps.dla.mil/>.