INCH-POUND
MIL-DTL-24308/28E
w/AMENDMENT 1
8 March 2013
SUPERSEDING
MIL-DTL-24308/28E
1 December 2009

DETAIL SPECIFICATION SHEET

CONNECTORS, ELECTRIC, RECTANGULAR, MINIATURE, POLARIZED SHELL, RACK AND PANEL, INSULATION DISPLACEMENT, PIN CONTACTS, NONENVIRONMENTAL, CLASS G

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.

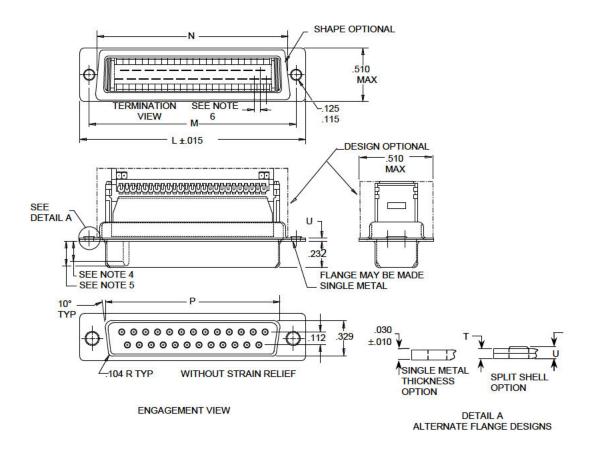
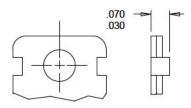


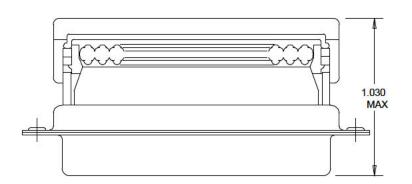
FIGURE 1. Dimensions and configuration.

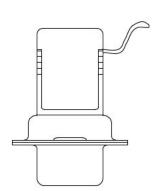
AMSC N/A FSC 5935

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ALTERNATE METHOD OF SECURING SHELL





	10.					
Inches	mm	Inches	mm	Inches	mm	
.010	0.25	.100	2.54	.232	5.89	
.015	0.38	.104	2.64	.329	8.36	
.030	0.76	.112	2.84	.422	10.72	
.050	1.27	.115	2.92	.494	12.55	
.070	1.78	.125	3.18	1.030	26.16	

NOTES:

- 1. Dimensions are in inches.
- 2. Metric equivalents are given for information only.
- 3. Unless otherwise specified tolerances are ±.005 (0.13mm) for three place decimals and ±.01 (0.25mm) for two place decimals.
- 4. Dimensions are .164 (4.17mm) minimum full pin diameter, extension (shell sizes 1 and 2) and .155 (3.94mm) minimum full pin diameter, extension (shell sizes 3 and 4).
- 5. Length for .164 and .155 pin diameter is .220 (5.59mm) maximum.
- 6. Interface Round conductor flat cable on .050 (1.27mm) centers.
- 7. Mating end of contact size 20.

FIGURE 1. <u>Dimensions and configuration</u> - Continued.

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REQUIREMENTS:

Design and construction:

Dimensions and configuration: See figure 1 and table I.

Mating conector: MIL-DTL-24308/1, MIL-DTL-24308/2, MIL-DTL-24308/5, MIL-DTL-24308/6,

MIL-DTL-24308/23, MIL-DTL-24308/27.

Conductor accommodation: 28 AWG stranded round conductor flat cable with conductors on .050

inch (1.27mm) centers.

Contact plating shall be in accordance with MIL-DTL-24308 for solder contacts.

Contact retention: Not applicable.

TABLE I. Dash numbers and characteristics.

			Dimensions 1/						
Dash	Shell	Number	L	M	N	Р	U	Т	Insert
number	size	of contacts	±.015		MAX		±.010	±.010	arrangement
			(0.38)				(0.25)	(0.25)	<u>2</u> /
-01	1	9	1.213	.984	.769	.666	.046	.030	A-1-1
			(30.81)	(24.99)	(19.53)	(16.92)	(1.17)	(0.76)	
-02	2	15	1.541	1.312	1.093	.994	.046	.030	A-2-1
			(39.14)	(33.32)	(27.76)	(25.25)	(1.17)	(0.76)	
-03	3	25	2.088	1.852	1.635	1.534	.064	.039	A-3-1
			(53.04)	(47.04)	(41.53)	(38.96)	(1.63)	(0.99)	
-04	4	37	2.729	2.500	2.282	2.182	.064	.039	A-4-1
			(69.32)	(63.50)	(57.96)	(55.42)	(1.63)	(0.99)	

^{1/} Metric equivalents are given for information only.

Materials:

Contacts: Any suitably conductive copper based alloy.

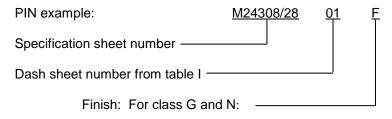
Strain relief: Polyester in accordance with ASTM D5927 or MIL-M-24519 or 300 series stainless steel or an equivalent industry standard.

Insert material: Polyester glass filled 15 percent or type GPT- 15F in accordance with MIL-M-24519.

^{2/} For insert arrangements see MIL-DTL-24308 Appendix A.

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Part or Identifying Number (PIN): Consists of the letter M, the basic number of the specification sheet, and a dash number compiled from the code.



A = Pure electrodeposited aluminum

 $\mathsf{F}-\mathsf{Cadmium}$

K = Zinc nickel

P - Passivated stainless steel

T = Nickel fluorocarbon polymer

Z = Zinc

Amendment notations. The margins of this specification are marked with vertical lines to indicate where modifications from this amendment were made. 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-24308/1

MIL-DTL-24308/2

MIL-DTL-24308/5

MIL-DTL-24308/6

MIL-DTL-24308/23

MIL-DTL-24308/27

MIL-M-24519

ASTM D5927

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CONCLUDING MATERIAL

Custodians:

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

(Project 5935-2013-027)

Review activities:

DLA - CC

Army - AT, AV, 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.dla.mil.