

INCH-POUND

MIL-DTL-24308/25K  
w/AMENDMENT 2  
9 April 2013  
SUPERSEDING  
MIL-DTL-24308/25K  
w/AMENDMENT 1  
18 July 2011

DETAIL SPECIFICATION SHEET

CONNECTORS, ELECTRIC, RECTANGULAR,  
MINIATURE, POLARIZED SHELL, RACK AND  
PANEL, SCREW-LOCK ASSEMBLY, MALE

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.

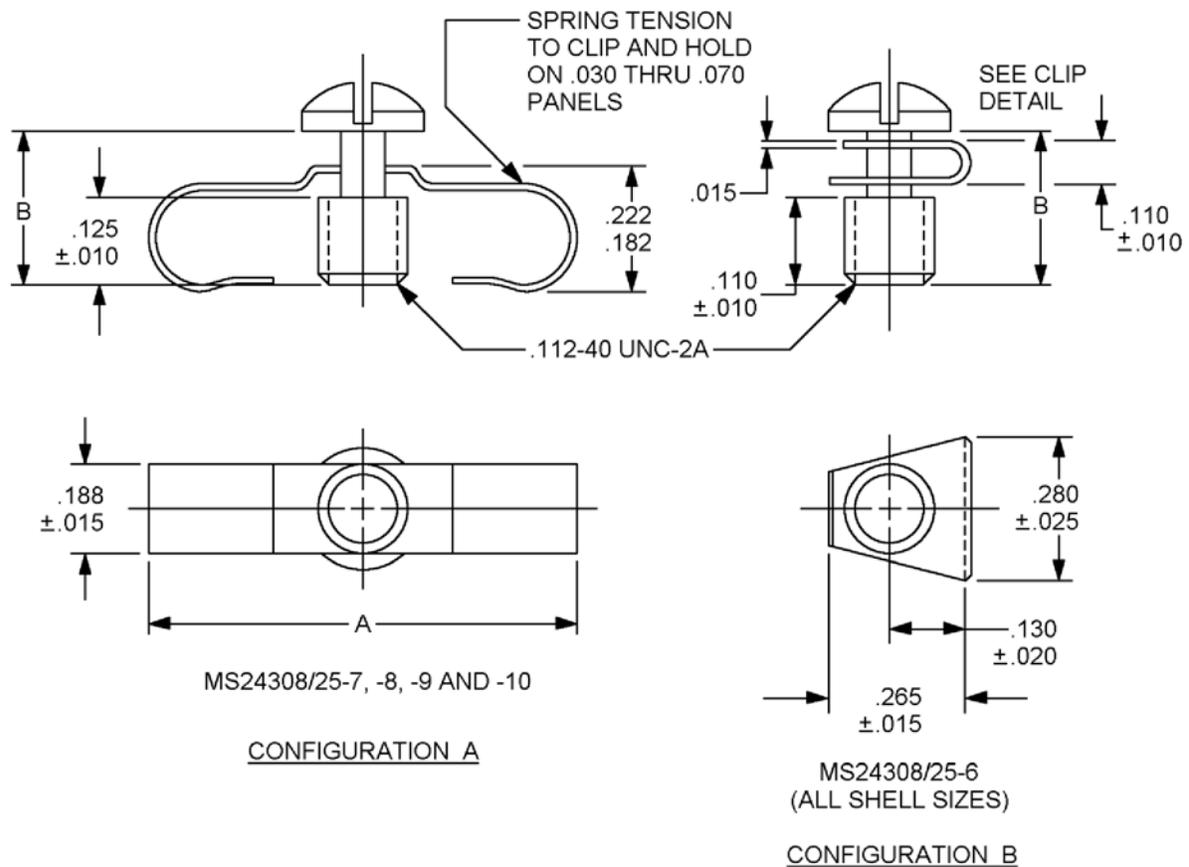
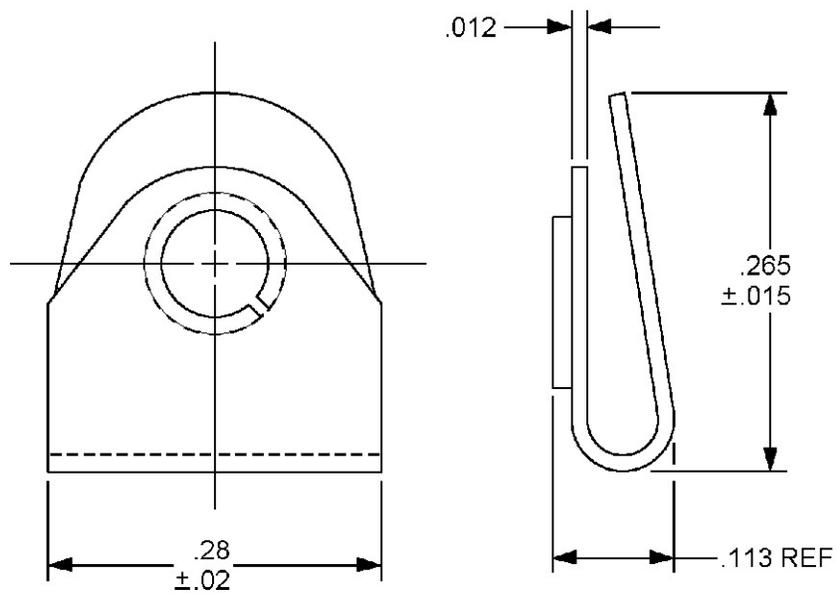


FIGURE 1. Dimensions and configurations.

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ALTERNATE CONFIGURATION B

Inches	mm	Inches	mm	Inches	mm	Inches	mm
.010	0.25	.031	0.79	.182	4.62	.281	7.14
.012	0.30	.070	1.78	.188	4.78	.312	7.92
.015	0.38	.110	2.79	.222	5.64	.555	14.10
.020	0.51	.113	2.87	.250	6.35	.656	16.66
.025	0.64	.125	3.18	.265	6.73		
.030	0.76	.130	3.30	.28	7.1		

FIGURE 1. Dimensions and configurations - Continued.

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Dash no. (see note 1)	Applicability				Dimensions (see notes 2 and 3)		Superseded dash number
	Without shields in accordance with SAE-AS85049/48-2, -3		With shields in accordance with SAE-AS85049/48-2, -3		A	B	
	Connector MIL-DTL-24308/	Shell size	Connector MIL-DTL-24308/	Shell size			
-6	1, 2, 3, 4	1,2,3 4,5,6			See configuration B	+0.00 .250 (0.00) (6.35)-.031 (0.79)	---
-7			3, 4	3, 4	.555 ±.015 (14.10) (0.38) See configuration A	.312 ±.010 (7.92) (0.25)	---
-8			3, 4	5	.656 ±.015 (16.66) (0.38) See configuration A	.312 ±.010 (7.92) (0.25)	---
-9 (see note 4)	1, 2, 3, 4	1,2,3, 4	3, 4 1, 2	1,2 1,2,3 4	.555 ±.015 (14.10) (0.38) See configuration A	.281 ±.010 (7.14) (0.25)	-1,-2, -3,-4
-10 (see note 4)	1, 2, 3, 4	5	1, 2	5	.656 ±.015 (16.66) (0.38) See configuration A	.281 ±.010 (7.14) (0.25)	-5

NOTES:

1. Male jackscrew assembly supplied as an individual order, not by the pair.
2. Dimensions are in inches.
3. Metric equivalents are given for information only.
4. M24308/25-1 through -5 are inactive for new design. New design or government logistic support should use M24308/25-9 or M24308/25-10.

FIGURE 1. Dimensions and configurations - Continued.

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REQUIREMENTS:

Dimensions and configuration: See figure 1.

Material: Screws - Cold rolled steel or corrosion resistant steel in accordance with ASTM A582/A582M, ASTM A555/A555M, or ASTM A493.

Clips - Sheet steel or corrosion resistant steel in accordance with ASTM A666.

Finish: Cold rolled and sheet steel - Yellow chromate over cadmium in accordance with SAE AMS-QQ-P-416 or zinc nickel alloy in accordance with ASTM B841 an underplate is optional or Nickel fluorocarbon polymer an underplate is optional or pure electrodeposited aluminum in accordance with MIL-DTL-83488.

Screw (Cold rolled steel) - Yellow chromate over zinc in accordance with ASTM B633 or an equivalent industry standard when available.

Clip (sheet steel) - Yellow chromate over zinc in accordance with ASTM B633 or an equivalent industry standard when available or aluminum coating.

Corrosion resistant steel - Shall be passivated in accordance with SAE AMS2700, type 6.

Screws shall be captive in the clip after assembly by the end user and corrosion resistant steel screws shall be used with corrosion resistant steel clips and cold rolled screws shall be used with sheet steel clips.

Qualification inspection: The following tests shall be performed on 3 samples (defined below) in accordance with MIL-DTL-24308:

Visual examination

Shock

Vibration

Visual examination

Test sample: Each sample shall consist of a M24308/25 dash number assembled to the applicable pair of mated connectors with M24308/26-1 or M24308/26-2 attached.

Part or Identifying Number (PIN) example: M24308/25 - 6 P

(Dash number on figure 1). \_\_\_\_\_

Finish \_\_\_\_\_

- A = Pure electrodeposited aluminum
- F = Cadmium
- K = Zinc nickel
- P = Passivated stainless steel
- T = Nickel fluorocarbon polymer
- Z = Zinc

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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-83488  
MIL-DTL-24308/1  
MIL-DTL-24308/2  
MIL-DTL-24308/3  
MIL-DTL-24308/4  
ASTM A493  
ASTM A555/A555M  
ASTM A582/A582M  
ASTM B633  
ASTM A666  
ASTM B841  
SAE AMS2700  
SAE AMS-QQ-P-416

CONCLUDING MATERIAL

Custodians:

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

Preparing activity:  
DLA - CC

(Project 5935-2013-025)

Review activities:

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>.