

INCH-POUND

MIL-DTL-28754/12G  
21 November 2014  
SUPERSEDING  
MIL-C-28754/12F  
26 JULY 1991

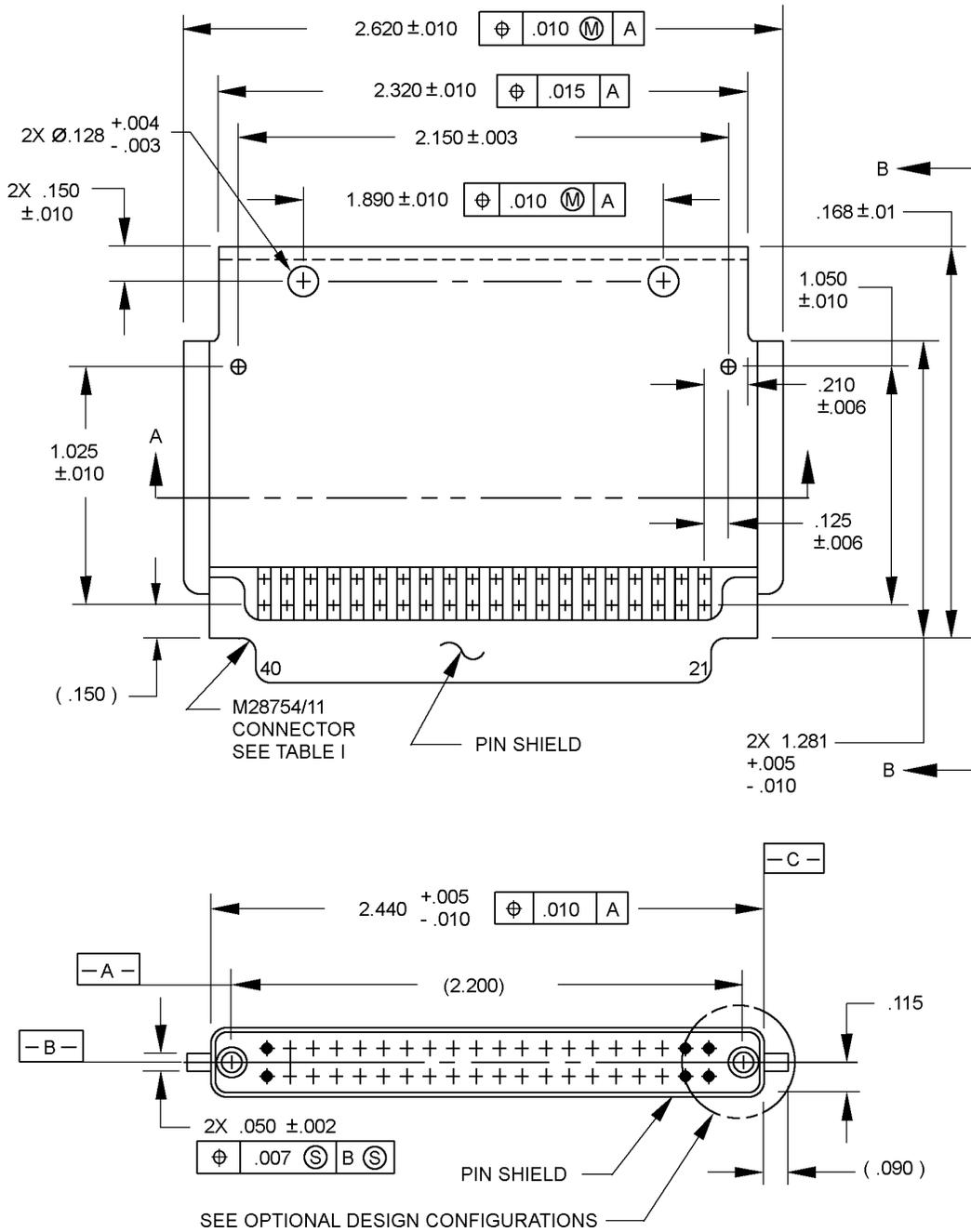
DETAIL SPECIFICATION SHEET

CONNECTORS, ELECTRICAL, MODULAR, CONNECTOR ASSEMBLY,  
TYPE IV, SINGLE SPAN (FOR SOLID STATE OR DIP FRAME)

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-C-28754.

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No Hole Pattern – M28754/12-05, and M28754/12-08

FIGURE 1. Connector assembly.

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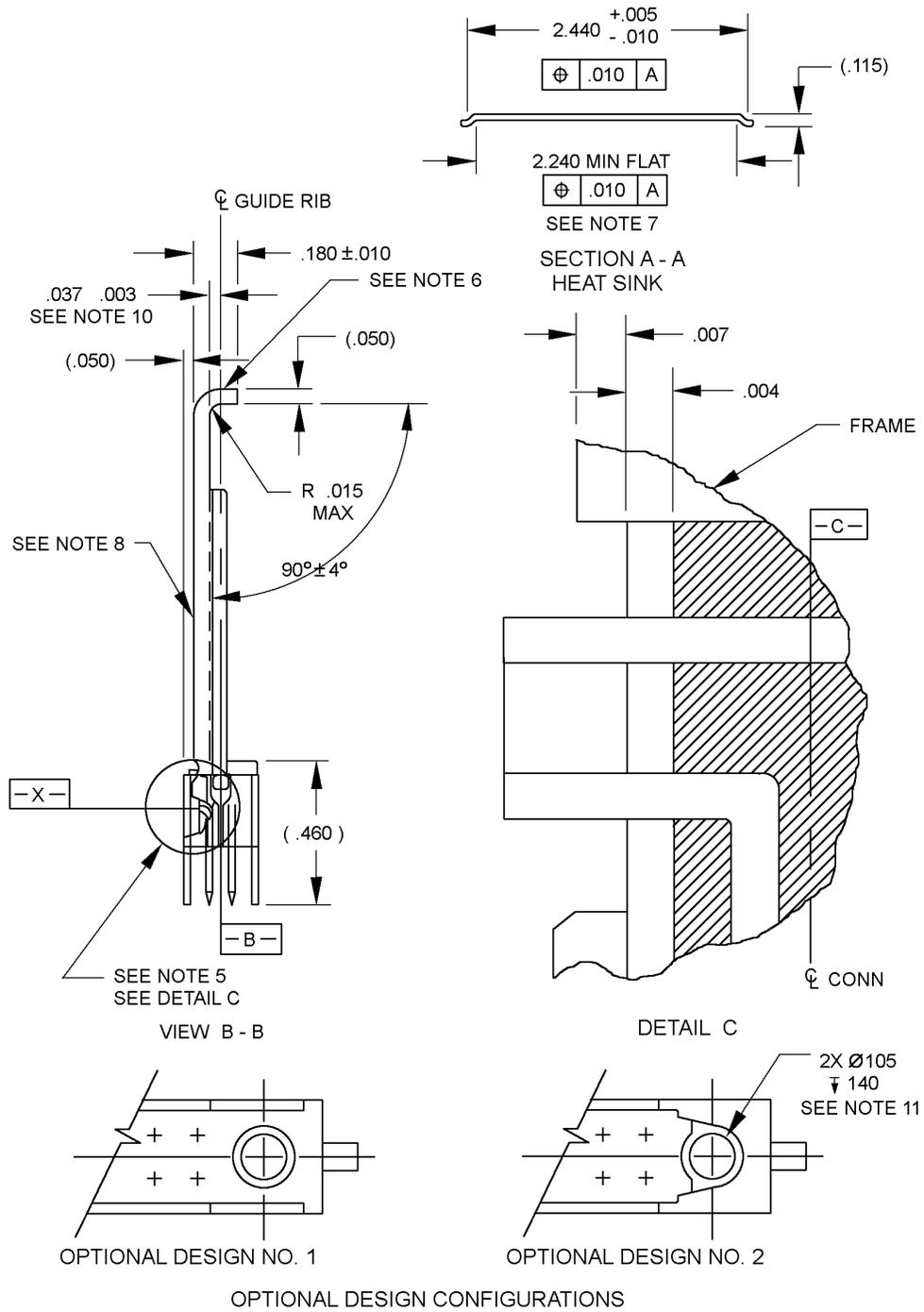
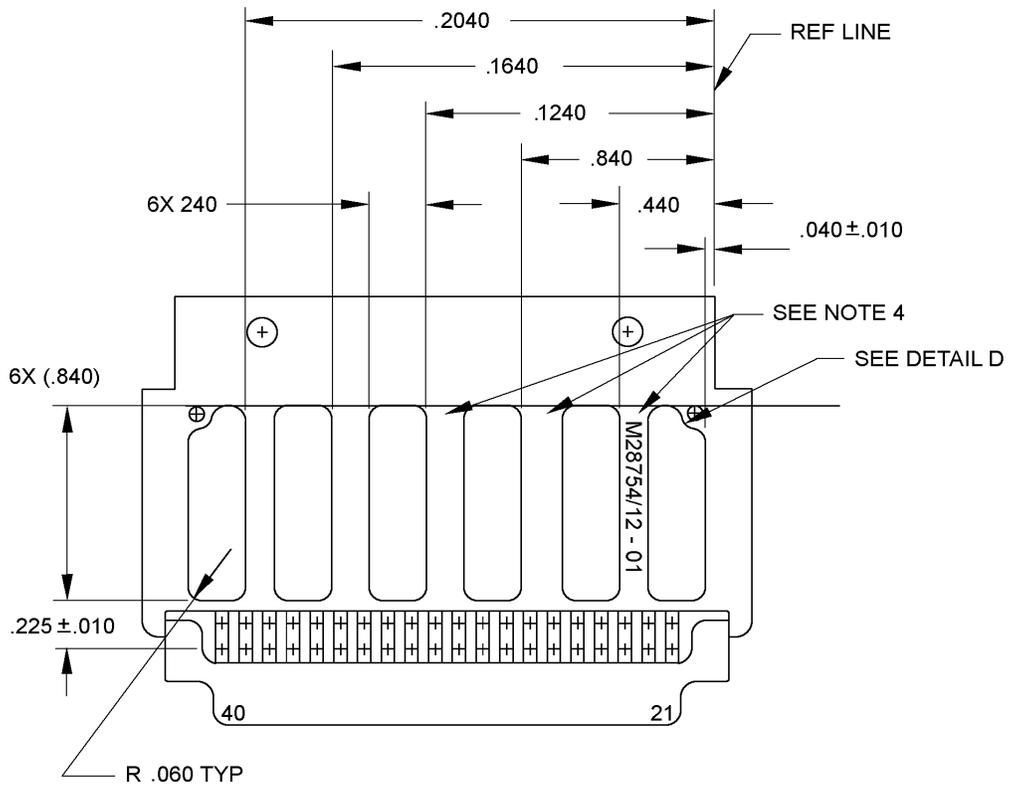


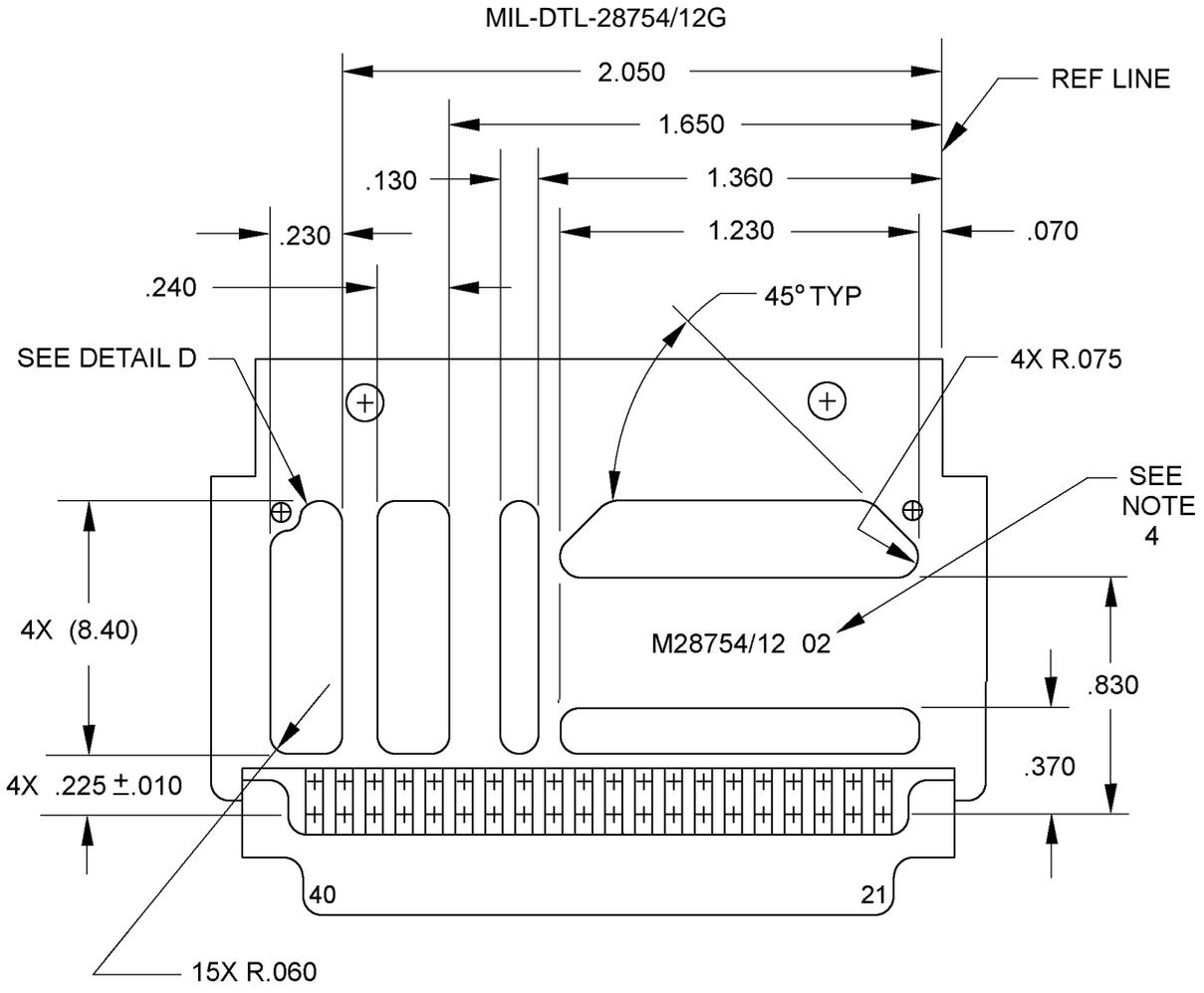
FIGURE 1. Connector assembly – Continued.

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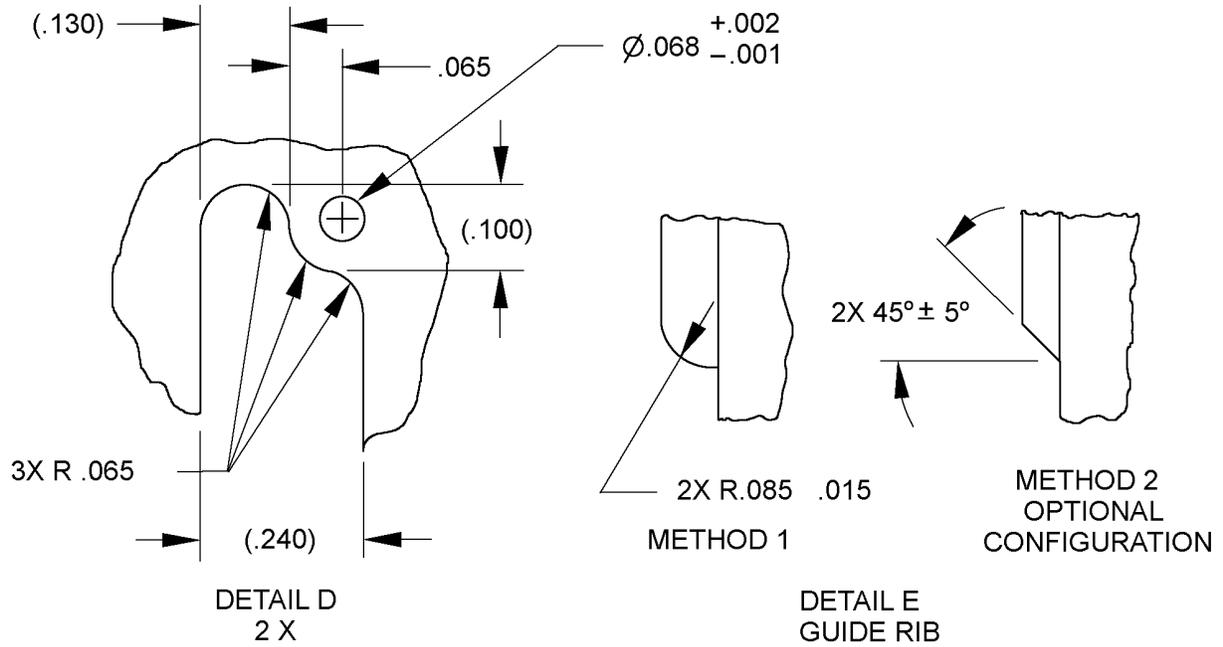
Hole Patterns – M28754/12-01, M28754/12-03, and M28754/12-06

FIGURE 1. Connector assembly – Continued.



Hole Patterns – M28754/12-02, M28754/12-04, and M28754/12-07

FIGURE 1. Connector assembly – Continued.



Inches	mm	Inches	mm	Inches	mm	Inches	mm
0.001	0.03	0.065	1.65	0.210	5.33	1.650	41.91
0.002	0.05	0.068	1.73	0.225	5.72	1.680	42.67
0.003	0.08	0.070	1.78	0.230	5.84	1.890	48.01
0.004	0.10	0.075	1.90	0.240	6.10	2.040	51.82
0.005	0.13	0.085	2.16	0.370	9.40	2.050	52.07
0.006	0.15	0.090	2.29	0.440	11.18	2.150	54.61
0.007	0.18	0.100	2.54	0.460	11.68	2.200	55.88
0.010	0.25	0.105	2.67	0.830	21.08	2.240	56.90
0.015	0.38	0.115	2.92	0.840	21.34	2.320	58.93
0.020	0.51	0.125	3.18	1.025	26.04	2.440	61.98
0.034	0.86	0.128	3.25	1.050	26.67	2.620	66.55
0.037	0.94	0.130	3.30	1.230	31.24		
0.040	1.02	0.140	3.56	1.240	31.50		
0.050	1.27	0.1475	3.746	1.281	32.54		
0.06	1.5	0.150	3.81	1.360	34.54		
0.060	1.52	0.180	4.57	1.640	41.66		

FIGURE 1. Connector assembly – Continued.

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NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, tolerances are  $\pm 0.005$  inch (0.13 mm) on decimals and  $\pm 2^\circ$  on angles.
4. Mark in this area in white or yellow characters, 0.06 inch (1.5 mm) high, either side.
5. Frame surface shall be flush with the connector within +0.007 inch (0.18 mm), -0.004 inch (0.01 mm).
6. Top surface of the fin shall be flat for a minimum of 0.090 inch (2.29 mm) width along the total length.
7. Frame shall be flat within 0.006 inch (0.15 mm) T.I.R. in area described by section "A-A".
8. Frame shall be perpendicular to connector mating interface within +0.005 inch (0.13 mm) (solder tail side) -0.010 inch (0.25 mm) opposite side.
9. Datum "B" is established by a plane passing through the center of the keying pin holes located by the 2.200 inch (55.88 mm) dimension.
10. The 0.037 inch (0.94 mm)  $\pm 0.003$  inch (0.08 mm) dimension is measured from the Guide Rib Centerline.
11. For -06, -07, or -08, 0.095  $\pm 0.001$  dia x 0.150 deep.

FIGURE 1. Connector assembly – Continued.

REQUIREMENTS:

Dimensions and configurations: See figure 1.

Applicable connector: See table I.

Frame: Aluminum alloy 5052, H32, H34, or H38 in accordance with SAE-AMS-QQ-A-250/8. Anodized black in accordance with MIL-A-8625, type II, class 2.

Marking: In accordance with MIL-C-28754, table I and figure 1.

Part or Identifying Number (PIN): M28754/12- (dash number from table I).

Qualifications testing: Perform the applicable tests as specified in MIL-C-28754 and the appendix thereto.

Extended qualifications: Qualification of M28754/12-01, /12-02, /12-03, /12-04, or /12-05 extends qualification to other products as specified in the appendix to MIL-C-28754. Qualification of M28754/12-06, /12-07, or /12-08 extends qualification to other products as specified in the appendix to MIL-C-28754.

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TABLE I. Dash number and applicable connector.

Dash no.	Applicable connector	Description	Supersedes drawing no.
01	M28754/11-01	Uninsulated pin shield	0102-655, code 28687
02	M28754/11-01	Uninsulated pin shield	900AS2005, code 30003
03	M28754/11-02	Insulated pin shield	
04	M28754/11-02	Insulated pin shield	
05	M28754/11-02	Insulated pin shield	
06	M28754/11-03	Insulated pin shield	
07	M28754/11-03	Insulated pin shield	
08	M28754/11-03	Insulated pin shield	

First article testing: Perform the applicable tests as specified in MIL-C-28754 and the appendix thereto.

Changes from previous issue. The margins of this specification are marked with vertical lines to indicate where changes from the previous issue 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 and relationship to the previous issue.

Referenced documents. In addition to MIL-C-28754, this document references the following:

MIL-A-8625  
SAE-AMS-QQ-250/8

CONCLUDING MATERIAL

Custodians:  
Army – CR  
Navy – AS  
Air Force – 85  
DLA - CC

Preparing activity:  
DLA - CC  
  
(Project 5935-2014-064)

Review activities:  
Army AR, MI  
Navy – MC  
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/>.