

METRIC

MIL-DTL-83538/13A  
2 June 2008  
SUPERSEDING  
MIL-DTL-83538/13  
13 May 2005

DETAIL SPECIFICATION SHEET

CONNECTORS AND ACCESSORIES, ELECTRICAL, CIRCULAR, UMBILICAL, TEST PLUG,  
REMOVABLE CRIMP CONTACTS, PINS, FOR MIL-STD-1760 APPLICATIONS (METRIC)

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-83538.

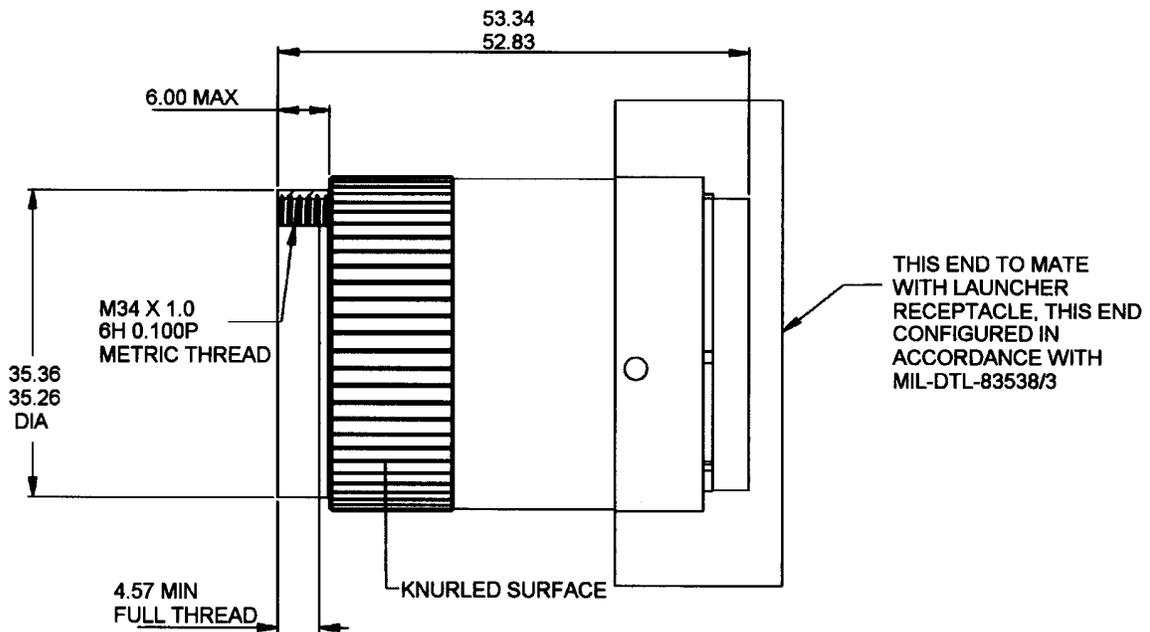


FIGURE 1. Test plug.

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mm	Inches
0.10	0.004
1.00	0.044
4.57	0.180
6.00	0.236
35.26	1.388
35.36	1.392
52.83	2.080
53.34	2.100

NOTES:

1. Dimensions are in millimeters.
2. Inch equivalents are given for information only.

FIGURE 1. Test plug - Continued.

REQUIREMENTS:

Dimensions and configurations: See figure 1.  
This connector mates with MIL-DTL-83538/4.  
Insert arrangement shall be in accordance with MIL-STD-1560 (25-20).  
Part or Identifying Number (PIN) example: M83538/13-1.

QUALIFICATION: This test plug shall be in accordance with the qualification requirements of MIL-DTL-83538. The following details and exceptions shall apply:

Group A: Visual and mechanical examination (100% inspection).

Group B: Not applicable.

Qualification and group C: Two MIL-DTL-83538/13 test samples are required for stand alone qualification. However, if the manufacturer is in the process of qualifying MIL-DTL-83538/4 concurrently with the test plug, then one test sample shall be required for qualification. Testing shall be performed in the following sequence:

Visual and mechanical examination.

Insulation resistance and dielectric withstanding voltage. Manufacturers that are qualifying this test plug as a stand alone accessory shall conduct insulation resistance and dielectric withstanding voltage in accordance with the requirements of MIL-DTL-83538. Manufacturers that are in the process of qualifying MIL-DTL-83538/4 connectors concurrently with MIL-DTL-83538/13 are not required to perform these two tests separately, however, these manufacturers shall certify that the mating end of MIL-DTL-83538/13 is identical to the mating side of the MIL-DTL-83538/3 buffer plug which mates with MIL-DTL-83538/4. For group C, visual and mechanical, insulation resistance, dielectric withstanding voltage and post test examination shall be conducted.

Post test examination.

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Changes from the previous issue: Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extent of the changes.

Referenced documents. In addition to MIL-DTL-83538, this document references the following:

MIL-DTL-83538/3  
MIL-DTL-83538/4  
MIL-STD-1560  
MIL-STD-1760

CONCLUDING MATERIAL

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

Preparing activity:  
DLA – CC

Review activities:  
Army – AR, MI  
Navy – EC, MC, OS  
Air Force – 19, 99

(Project 5935–2007-050)

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 <http://assist.daps.dla.mil>.