

MILITARY SPECIFICATION SHEET

TERMINAL BOXES, CONNECTION, SUBMERSIBLE (15-FOOT), 500 VOLTS, SYMBOL 476.1,

24 LUGS FOR TWELVE 2-CONDUCTOR 23 MCM CABLES OR

EIGHT 3-CONDUCTOR 23 MCM CABLES

This specification sheet is approved for use by the Naval Sea Systems Command and is available for use by all Departments and Agencies of the Department of Defense.

The complete requirements for acquisition of the terminal box described herein shall consist of this document and the latest issue of MIL-T-24558(SH).

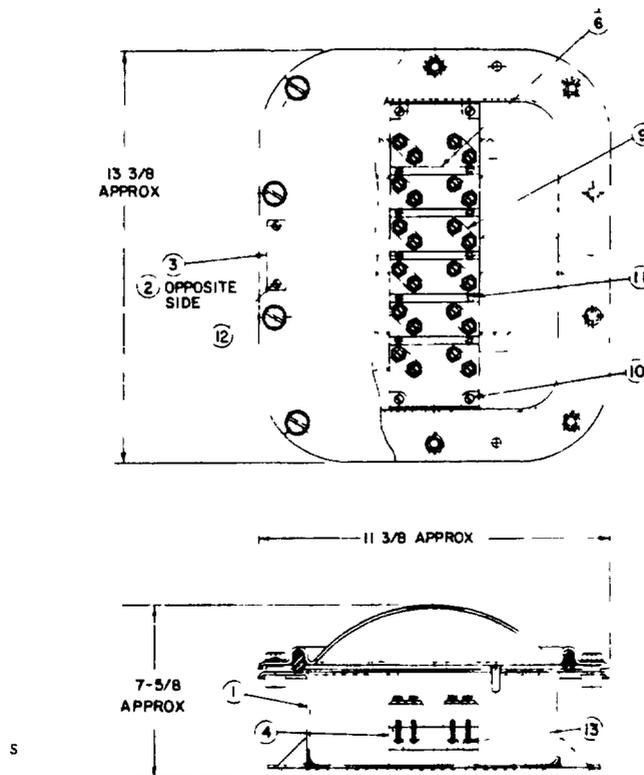
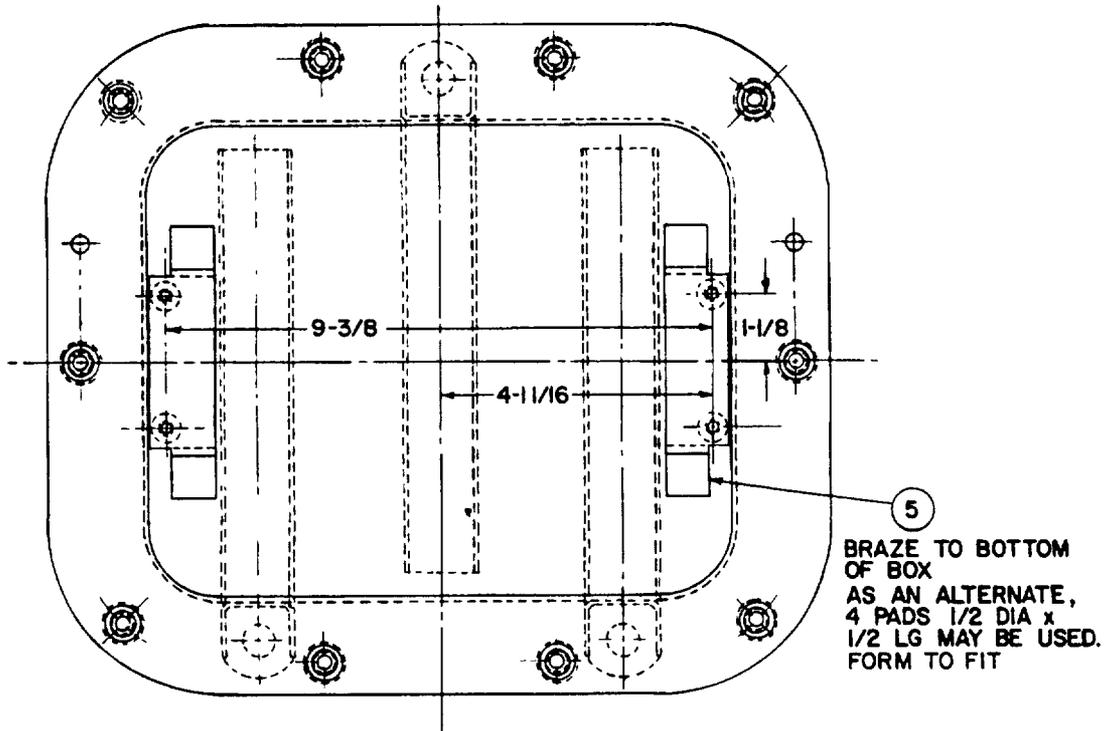


FIGURE 1. Connection box assembly.

All dimensions in inches.
For tolerances, other than specified herein, see paragraph 3.4.8 of MIL-T-24558.

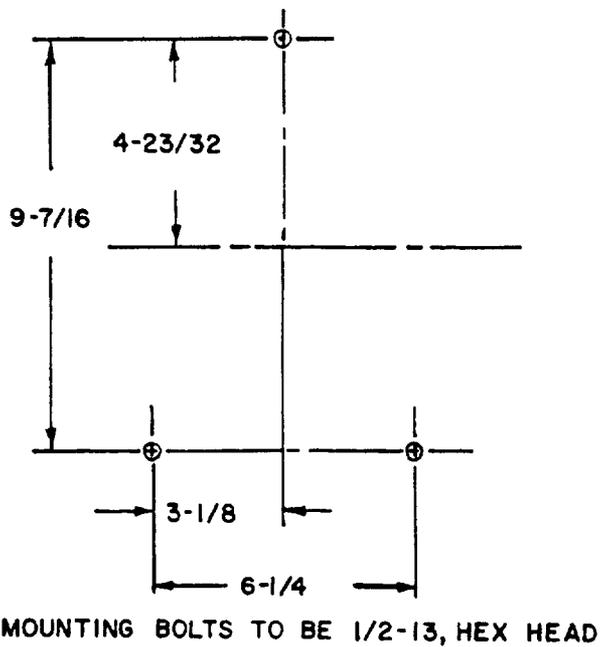
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FIGURE 2. Location of terminal board mounting brackets.



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FIGURE 3. Mounting dimensions.

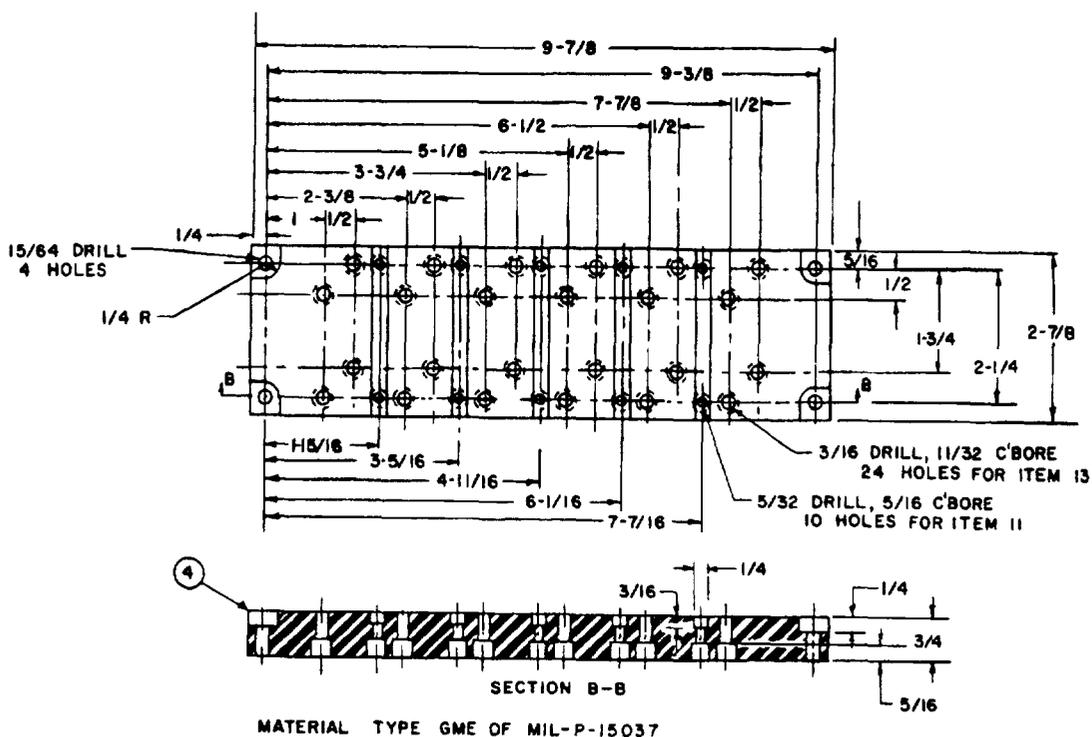


FIGURE 4. Terminal board base.

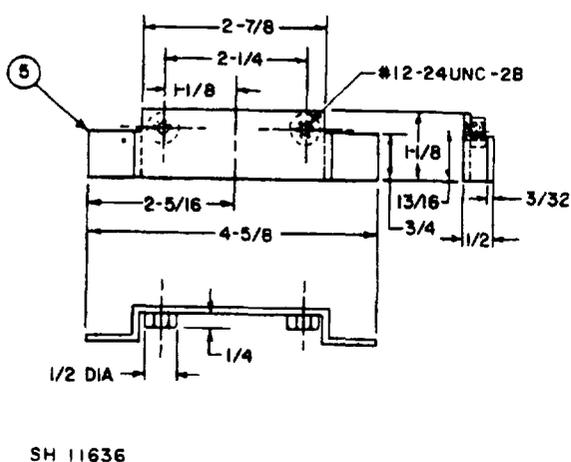


FIGURE 5. Mounting bracket.

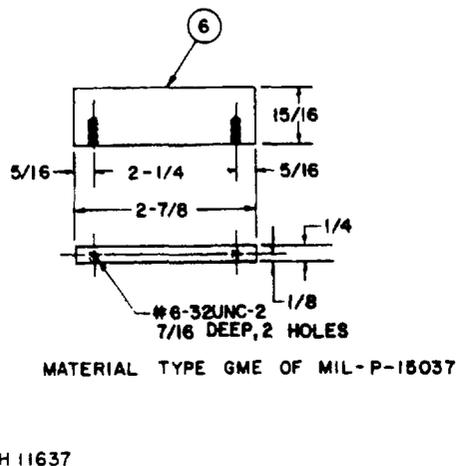


FIGURE 6. Barrier.

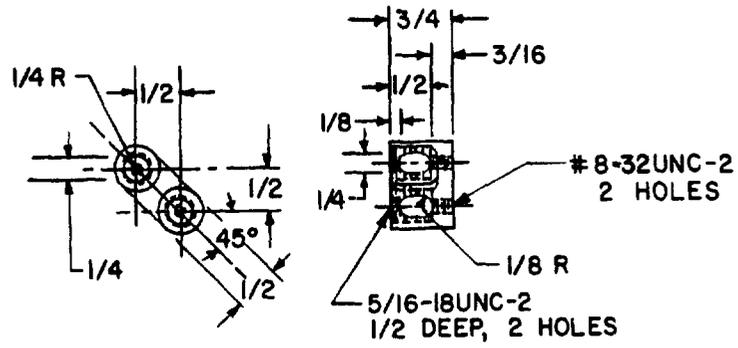


FIGURE 7. Terminal body.

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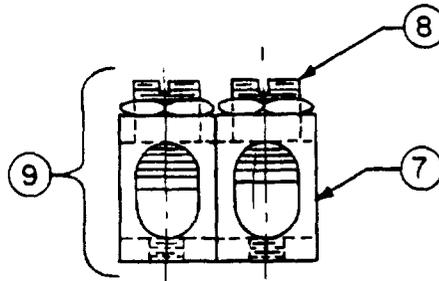


FIGURE 8. Terminal lug assembly.

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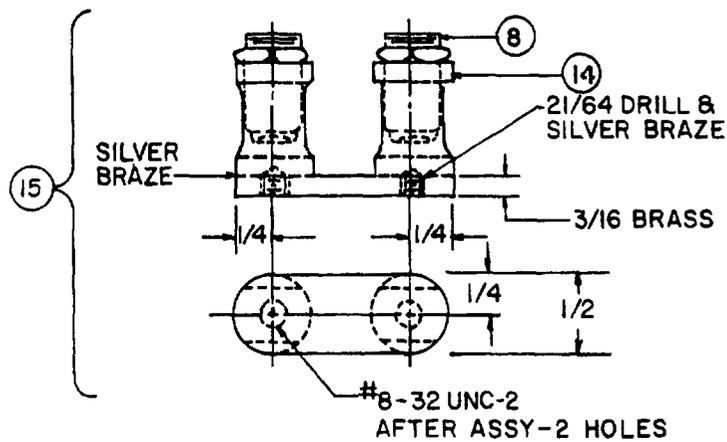


FIGURE 9. Alternate terminal lug assembly.

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REQUIREMENTS:

DESIGN:

Electrical rating: 500-volt rms/DC. The maximum current shall be 100 amperes per terminal lug.

Dimensions and configuration: See figures 1 through 9.

Standard parts: The standard parts shown in table I shall be used in the construction of the connection box specified herein. Numbers in circles shown on the figures are the same as those shown in "Item" column of table I.

Finish: The interior to enclosure may be unpainted or painted at contractor's option.

Enclosure: 15-foot submersible.

QUALITY ASSURANCE: First article inspection and Quality conformance inspection shall be as specified in MIL-T-24558.

GENERAL INFORMATION: Assignment of Military part numbers and general information is as follows:

- (a) Military part number: M24558/21-476.1.
- (b) Weight: The weight of the connection box shall be 16.7 lbs. maximum.
- (c) Formerly covered on NAVSHIPS Drawing No. 9000-S6202-74138.
- (d) Overall terminal box dimensions are approximate. Exact dimensions are shown on Military Specification for Item 1, table I.
- (e) Maximum number of lugs shall be 24 for twelve 2-conductor 23 MCM cables or eight 3-conductor MCM cable.

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TABLE I. Parts list.

Item	Description	Qty	Part no. or spec.	Remarks
1	Enclosure assembly with Type A cover, brass	1	MIL-E-24142/6	M24142/6-001
2	Identification plate	1	MIL-T-24558	Figure 6
3	Information plate	1	MIL-T-24558	Figure 6
4	Terminal board base	1	Figure 4	Plastic
5	Mounting bracket	2	Figure 5	Brass
6	Barrier	5	Figure 6	Plastic
7	Terminal body	12	Figure 7	Cast Copper QQ-C-390
8	Terminal pressure screw assembly	24	S6202-73055, Pc 21	Brass
9	Terminal lug assembly	12	Figure 8	
10	RH mach screw #12-24x7/8" long	4	COML	Brass
11	RH mach screw #6-32x5/8" long	10	COML	Bronze
12	RH mach screw #6-32x1/4" long	4	COML	Brass
13	RH mach screw #8-32x5/8" long	24	COML	Brass
14	Alternate terminal body	24	S6202-73055, Pc 2	Brass
15	Alternate terminal lug assembly	12	Figure 9	Brass

Preparing activity:
Navy - SH
(Project 5940-N856-21)

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MIL-T-24558/21(SH)

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