

INCH-POUND

MIL-I-24728/2A
23 July 1992
SUPERSEDING
MIL-I-24728/2(NAVY)
31 August 1989

MILITARY SPECIFICATION SHEET

INTERCONNECTION BOX, FIBER OPTIC, SUBMERSIBLE, 304.8 X 609.6 MM

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 the issue of the following specification listed in that issue of the Department of Defense Index of Specifications and Standards (DODISS) specified in the solicitation: MIL-I-24728.

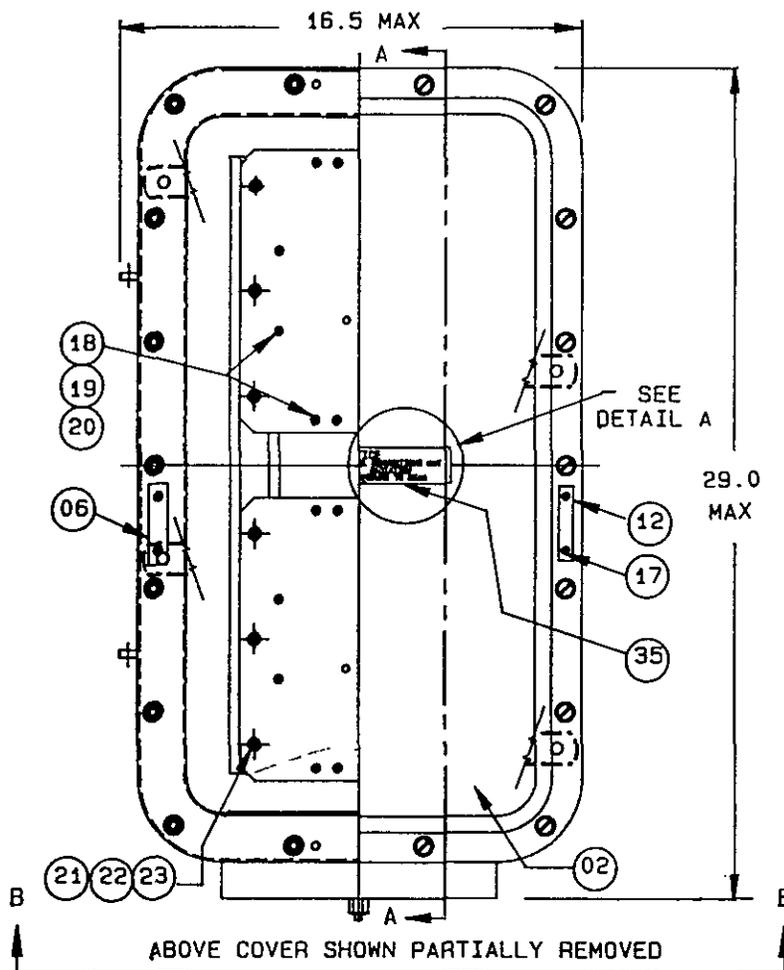


FIGURE 1. Enclosure assembly, M24728/2-001.

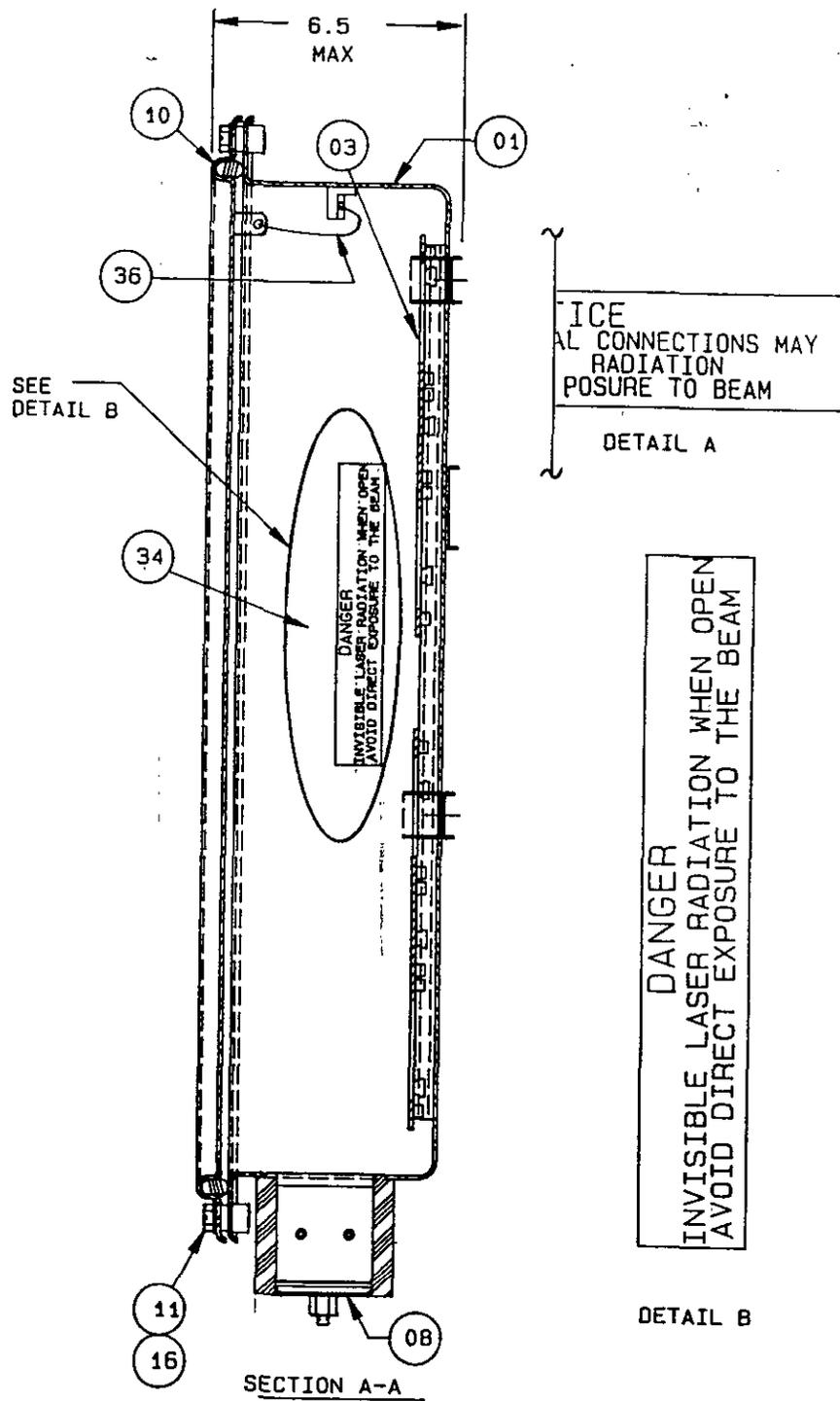
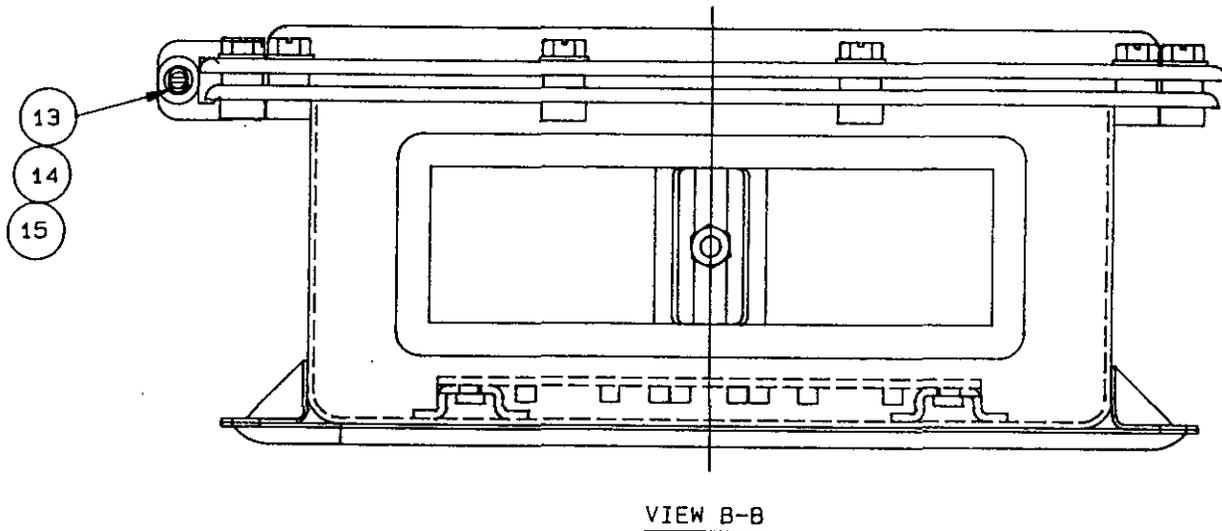


FIGURE 1. Enclosure assembly, M24728/2-001 - Continued.

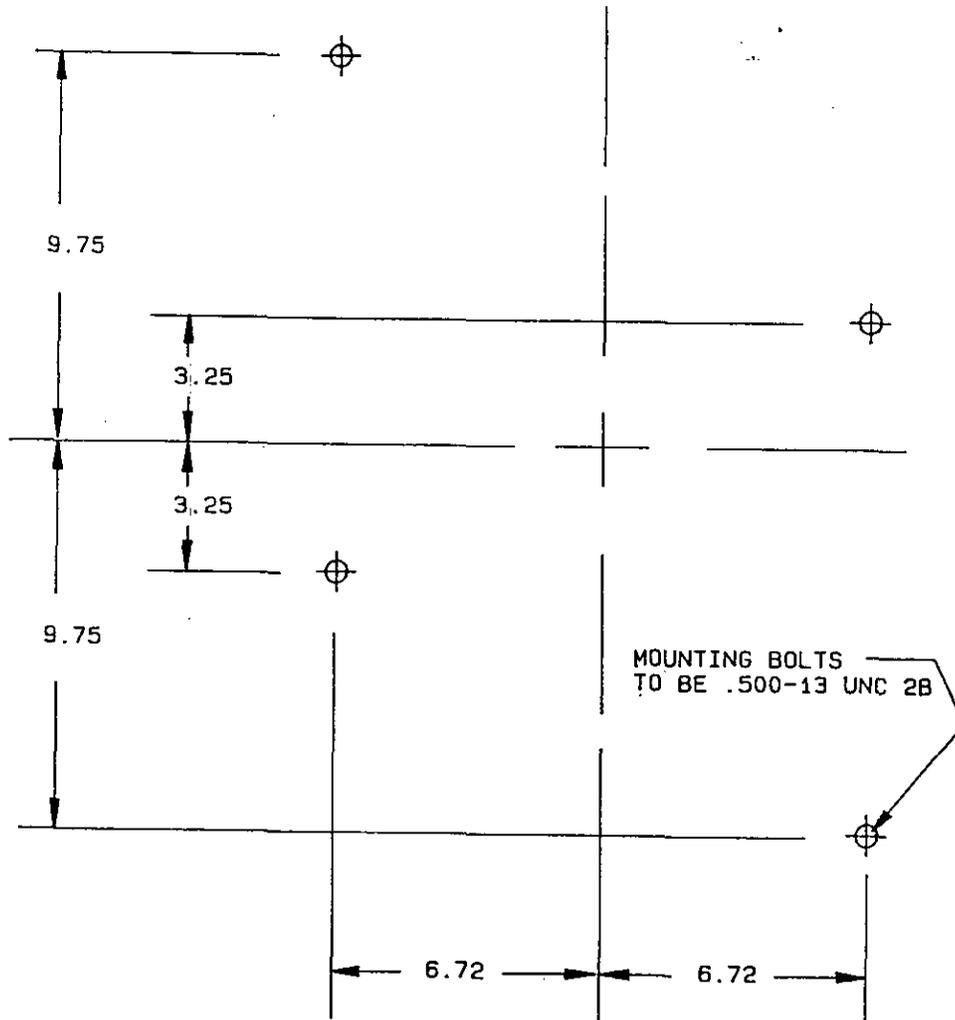


Inches	mm
6.5	165
16.5	419
29.0	737

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. For identification of subcomponent parts, see table I of MIL-I-24728/1.

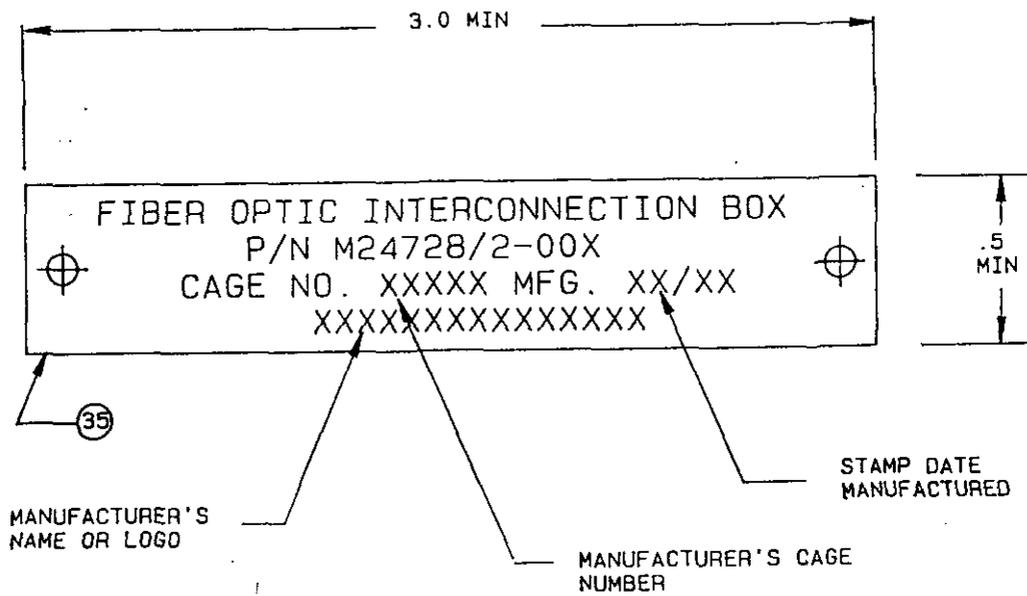
FIGURE 1. Enclosure assembly, M24728/2-001 - Continued.



Inches	mm
.500	12.7
3.25	82.6
6.72	170.7
9.75	247.6

- NOTES:
1. Dimensions are in inches.
 2. Metric equivalents are given for general information only.
 3. Unless otherwise specified, tolerance is $\pm .01$ (0.3) for 2 place decimals and $\pm .005$ (0.13) for 3 place decimals.

FIGURE 2. Box mounting dimensions.



Inches	mm
.5	13
3.0	76.0

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.

FIGURE 3. Identification plate.

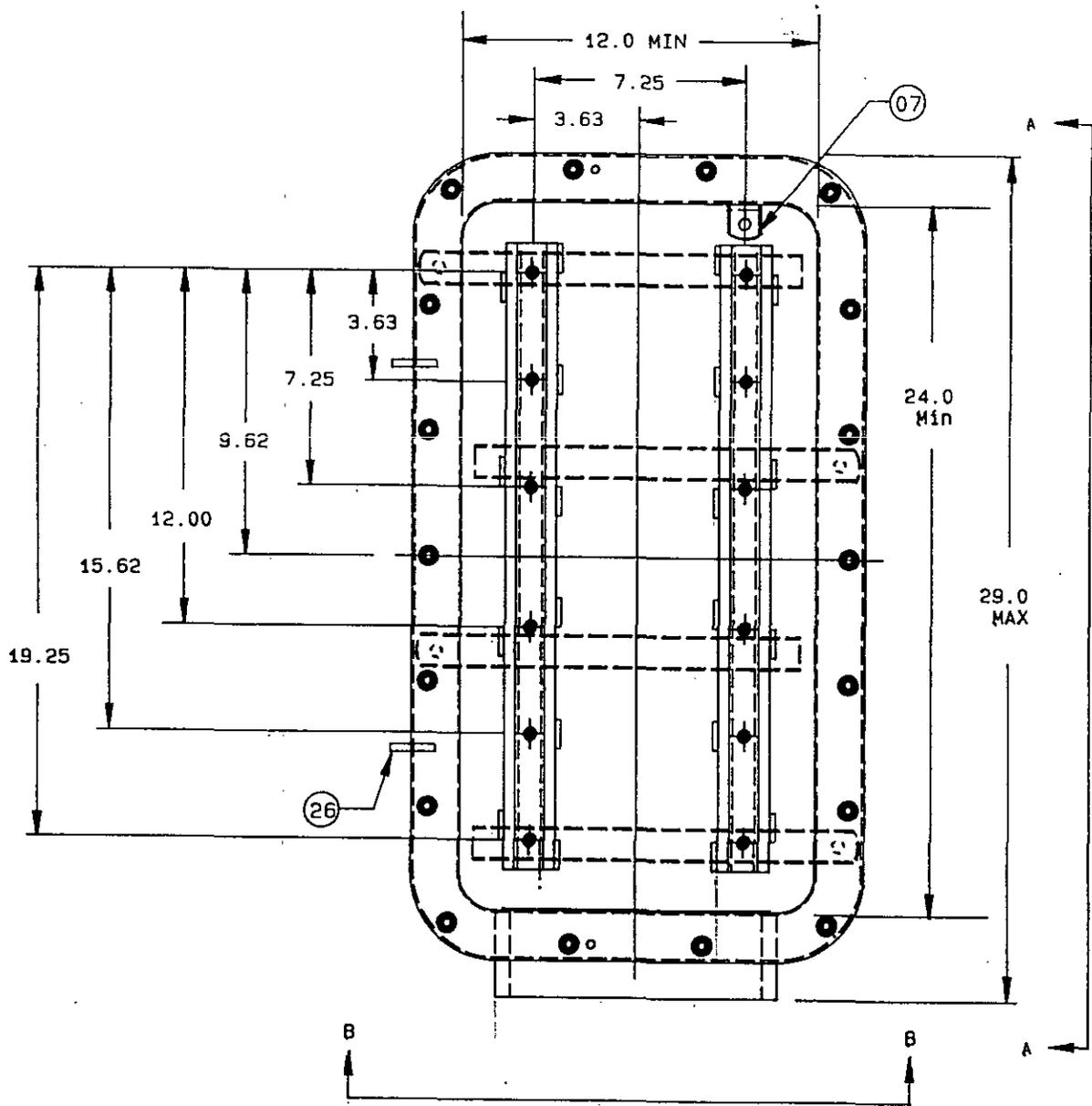


FIGURE 4. Box assembly.

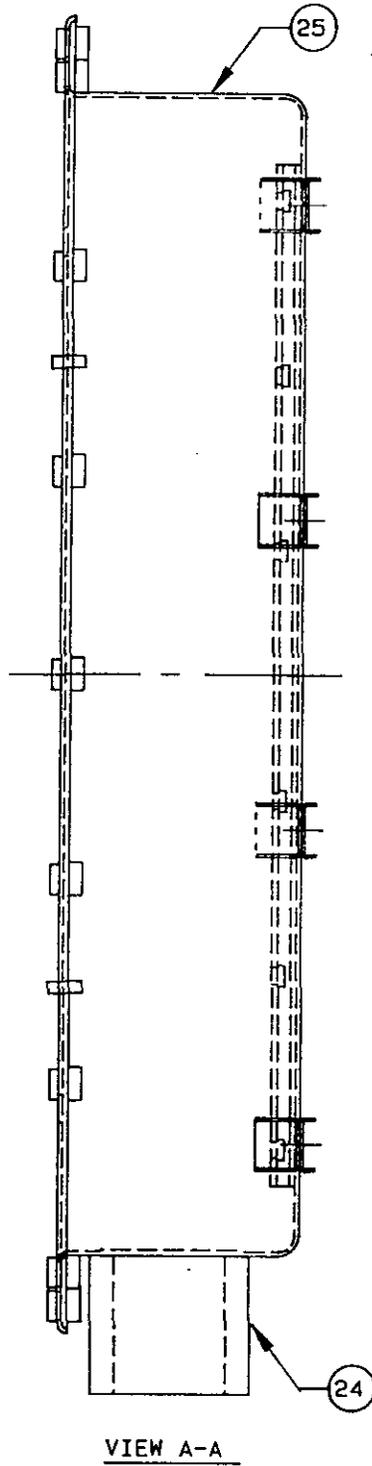
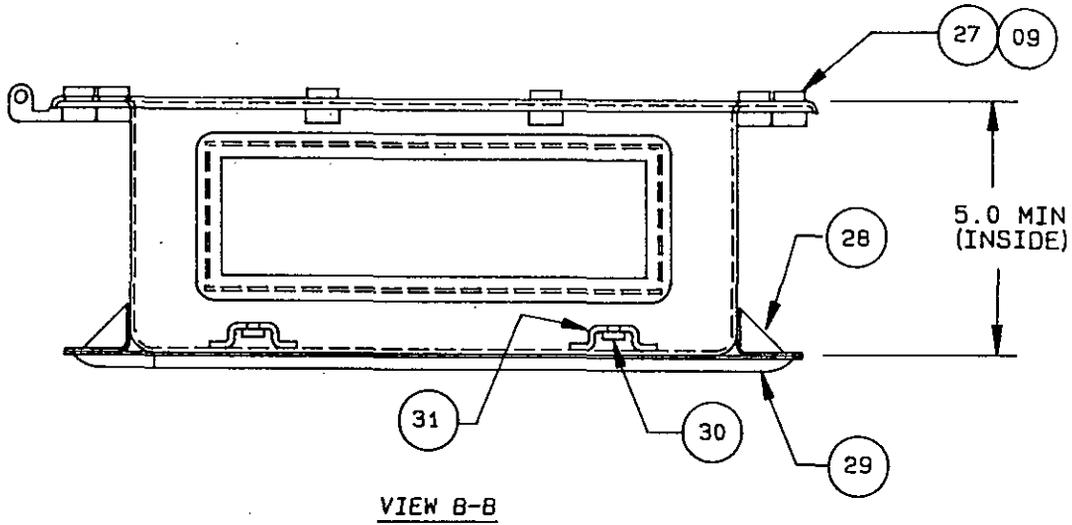


FIGURE 4. Box assembly - Continued.

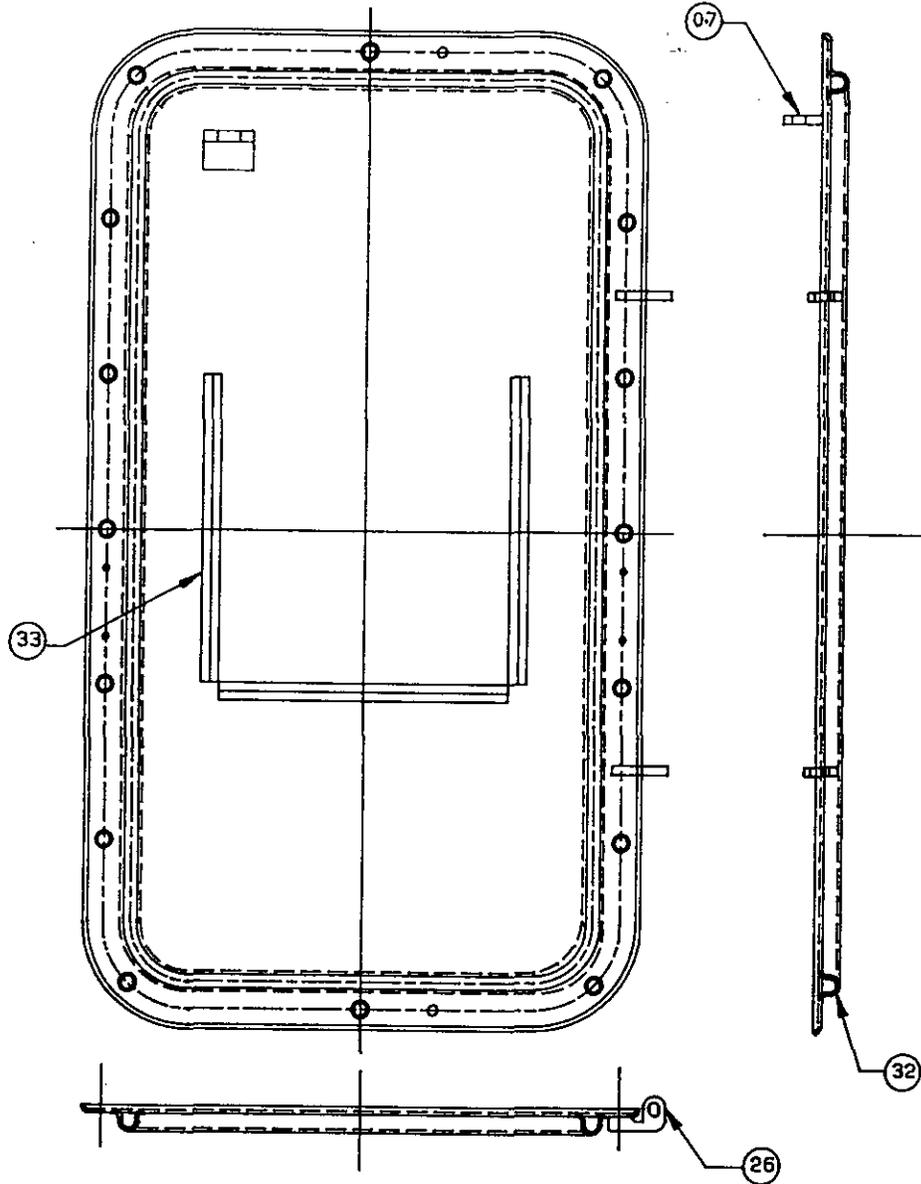


Inches	mm
3.63	92.2
5.00	127.0
7.25	184.2
9.62	244.4
12.0	304.8
15.62	396.8
19.25	480.0
24.0	610
29.0	737

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerance is ± 0.01 (0.3) for 2 place decimals.

FIGURE 4. Box assembly - Continued.



NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerance is ± 0.01 (0.3) for 2 place decimals and ± 0.005 (0.13) for 3 place decimals.

FIGURE 5. Cover assembly.

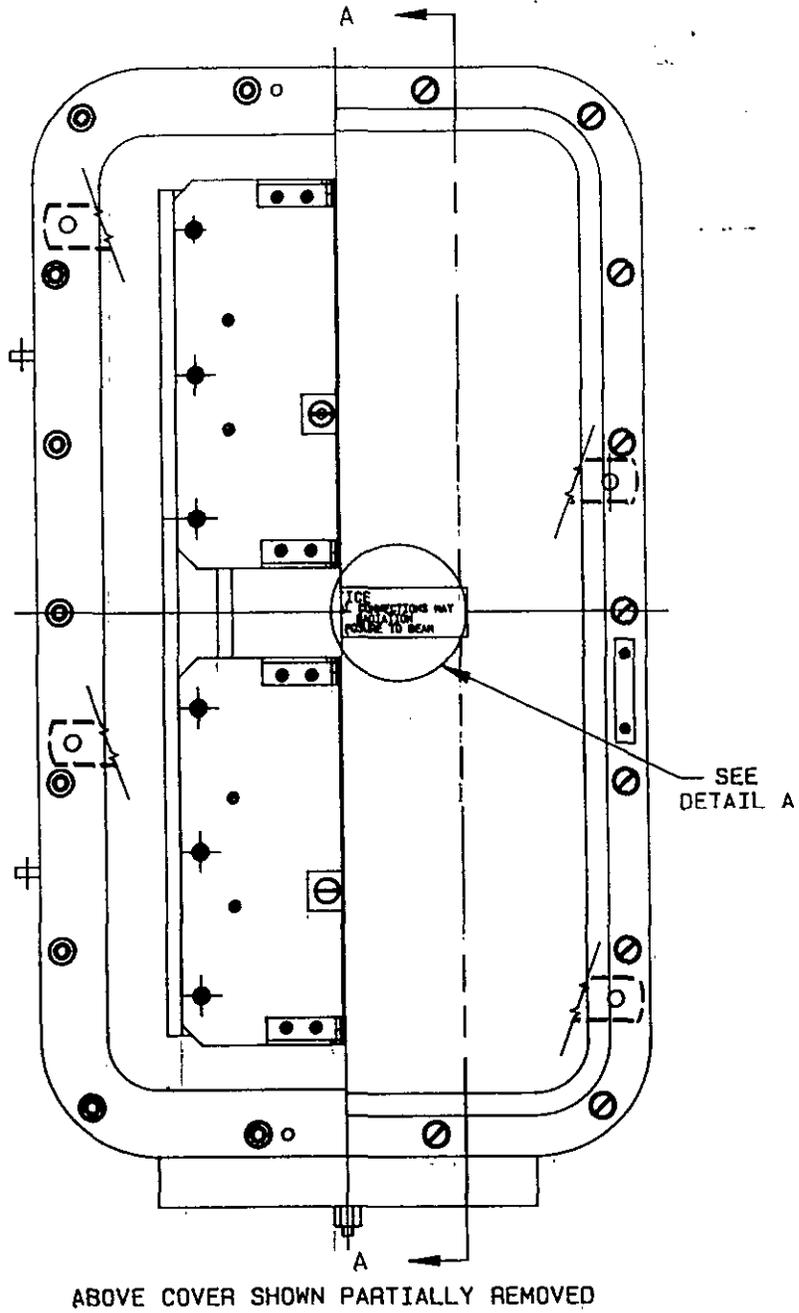


FIGURE 6. Patch panel kits M24728/1-002 installed in an enclosure assembly, M24728/2-001.

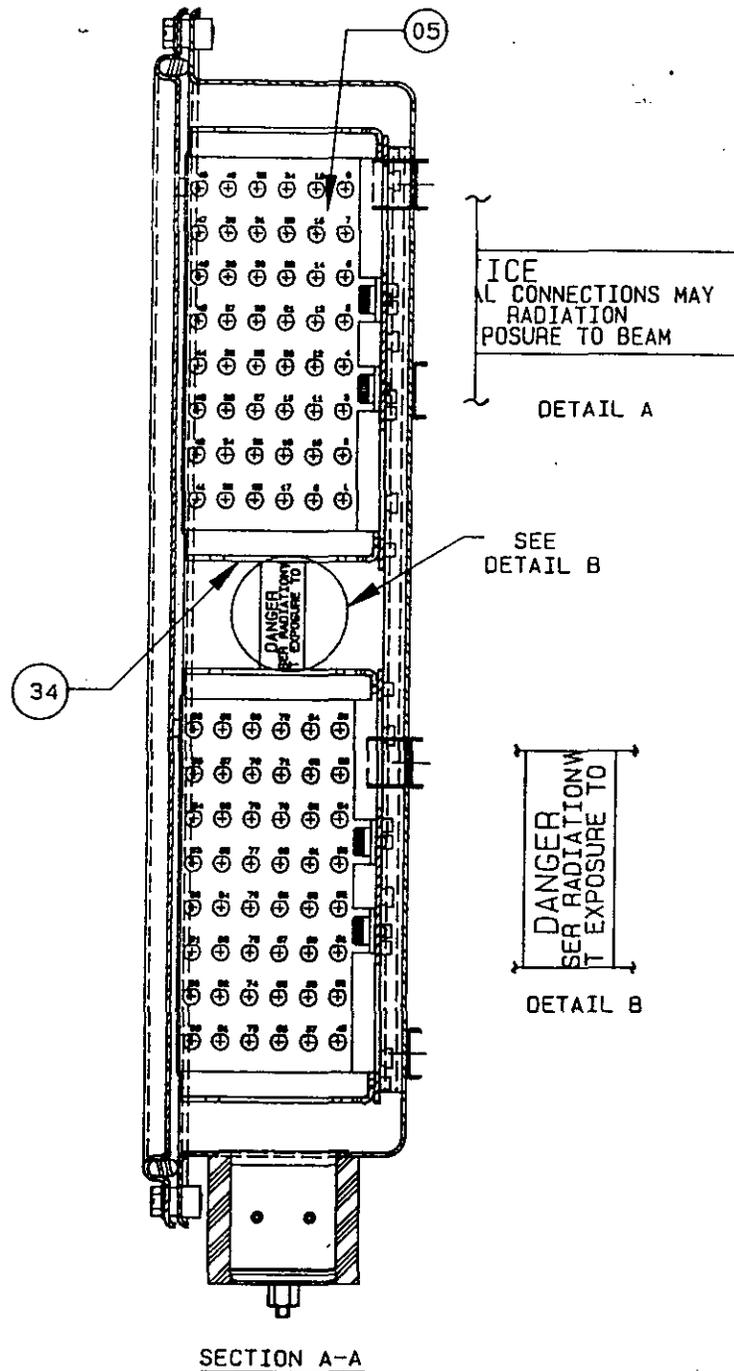
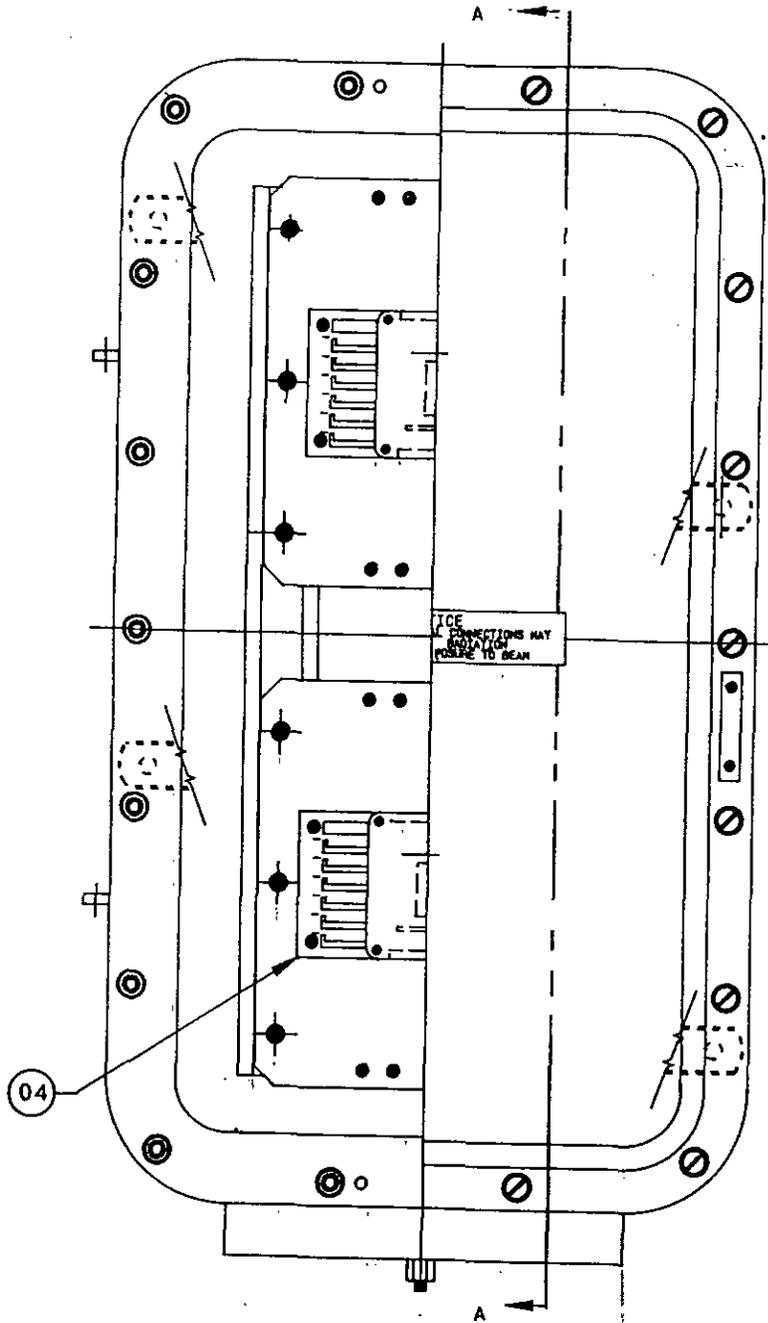


FIGURE 6. Patch panel kits M24728/1-002 installed in an enclosure assembly, M24728/2-001 - continued.



ABOVE COVER SHOWN PARTIALLY REMOVED

FIGURE 7. Splice tray kits M24728/1-003 installed in an enclosure assembly M24728/2-001.

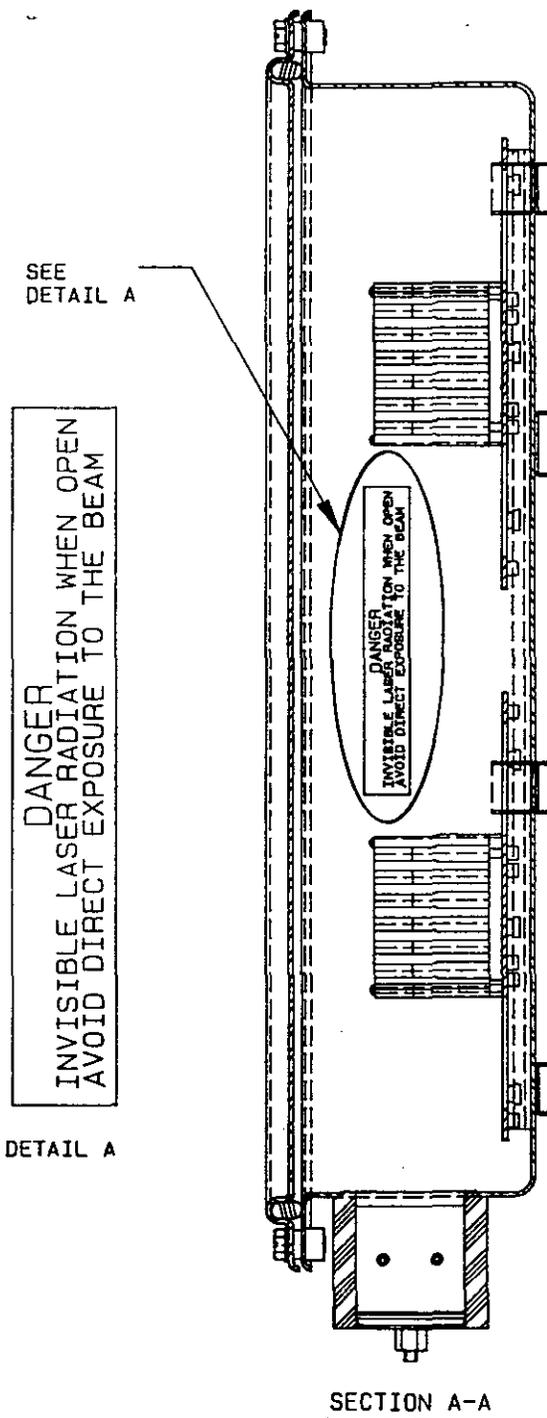


FIGURE 7. Splice tray kits M24728/1-003 installed in an enclosure assembly M24728/2-001 - Continued.

TABLE I. Parts list.

Subcomponent identification numbers, circled. (see figures 1 through 7)	Part name	PIN		Subassembly number		Remarks and reference figures
		001	002	01	02	
	Enclosure assembly with cable entrance	1				1
	Enclosure assembly without cable entrance		1			1
01	Box assembly	1	1			1 and 3
02	Cover assembly	1	1		1	1 and 5
03 <u>1/</u>	Mounting plate assembly	2	2			1
04 <u>1/</u>	Patch panel kit					7 M24728/1-002
05 <u>1/</u>	Splice tray kit					6 M24728/1-003
06	Blank I.D. plate	1	1			1
07	Door support			1	1	4 and 5
08	Wedge pack	1				1
09	3/8-16 helicoil			18		4
10 <u>2/</u>	Gasket	1	1			1 and 5
11 <u>2/ 3/</u>	Hex bolt	18	18			1
12 <u>4/</u>	Information plate	1	1			1 and 9
13 <u>3/ 5/</u>	Hinge pin	2	2			1
14 <u>3/</u>	1/4 inch flat washer	2	2			1
15 <u>3/</u>	1/16 inch cotter pin	2	2			1
16 <u>3/</u>	3/8 inch flat washer	18	18			1
17 <u>3/</u>	6-32 x 1/4 inch PHMS	4	4			1
18 <u>3/</u>	8-32 x 1/2 inch PHMS	24	24			1
19 <u>3/</u>	# 8 flat washer	24	24			1
20 <u>3/</u>	# 8 split lock washer	24	24			1
21 <u>3/</u>	1/4-20 x 1/2 inch PHMS	12	12			1
22 <u>3/</u>	1/4 inch flat washer	12	12			1

See footnotes at end of table.

TABLE I. Parts list - Continued.

Subcomponent identification numbers, circled. (see figures 1 through 7)	Part name	PIN		Subassembly number		Remarks and reference figures
		001	002	01	02	
	Enclosure assembly with cable entrance	1				1
	Enclosure assembly without cable entrance		1			1
23 3/	1/4 inch lock washer	12	12			1
24 4/	Mounting frame			1		3 and 4
25 2/ 4/	12 x 24 Box			1		4 Type B
26 4/	Hinge			2	2	3, 4 and 5
27 2/ 4/	Flange pad			18		4
28 2/ 4/	Gusset			3		4 and 6
29 2/ 4/	Mounting leg			4		2 and 4
30 3/	1/4-20 insert			12		3 and 4
31 4/	Mounting channel			2		3 and 4
32 2/ 4/	12 x 24 cover				1	5 Type B
33 4/	Diagram holder				1	4 and 5
34 6/	Danger label	1				1 and 6
35 6/	Notice label	1				1 and 3
36 7/	Cable					1

Notes (the following notes are for materials specifications only):

- 1/ In accordance with MIL-I-24728/1.
- 2/ In accordance with MIL-E-24142/6.
- 3/ Corrosion resisting steel.
- 4/ Aluminum alloy 356 in accordance with QQ-A-596.
- 5/ Rivet, 1/4 inch dia x 3/4 inch large shank.
- 6/ In accordance with MIL-P-15024, type G, adhesive-backed, metal foil, red letters.
- 7/ Aircraft cable, vinyl coated, as required.

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REQUIREMENTS:

Designs and constructions: See figures 1 through 7, and table I.

The interconnection box shall be in accordance with MIL-E-24142/6-010.

Mass: M24728/2-001: 25 max lbs

M24728/2-002: 20 max lbs

Interconnection box mounting: See figure 2.

Interconnect organization:

Fiber optic splices: Mechanical/fusion, 144 or 72 or none.

Fiber optic adapters: 96 or 48 or none.

Fiber optic diagram holders (diagram holder is an integral part of the box): See figure 5.

Cable retention: N/A

Cable seal flexing: N/A

Cable twist: N/A

Compression resistance: N/A

Impact: N/A

Flammability: N/A

Salt spray: N/A

Flame spread: N/A

Fluid immersion test shall be conducted on polymeric materials only.

Fungus shall be conducted on polymeric materials only.

The operating temperature range shall be -54 to +65°C and the storage temperature range shall be -62 to +85°C.

Part or Identifying Number (PIN):

M24728/2-001, Box, mounting plate, and cover with cable entrance.

M24728/2-002, Box, mounting plate, and cover without cable entrance.

The gasket size is 12-3/8 wide x 24-3/8 long. This corresponds to PIN M24142/6-010 of MIL-E-24142/6.

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CONCLUDING MATERIAL

Custodians:

Army - CR
Navy - SH
Air Force - 85

Review activities:

Army - MI
Navy - YD, EC, AS
Air Force - 11, 17, 19, 80, 99
DLA - ES

User activities:

Army - AR
Navy - CG, MC

Preparing activity:

Navy - SH

Agent:

DLA - ES

(Project 6099-0001-02)