

METRIC

MIL I 24728/4

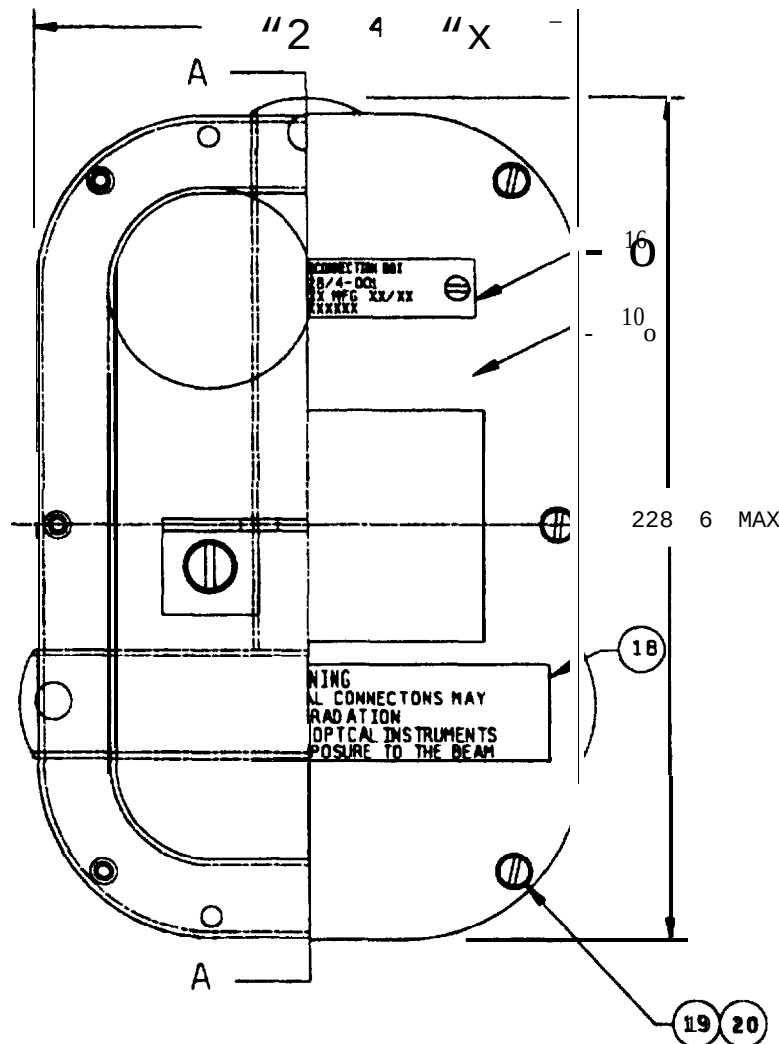
1 June 1995

MILITARY SPECIFICATION SHEET

INTERCONNECTION BOX, FIBER OPTIC, SUBMERSIBLE, 1016 x177 B 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 24722



ABOVE COVER SHOWN PARTIALLY REMOVED

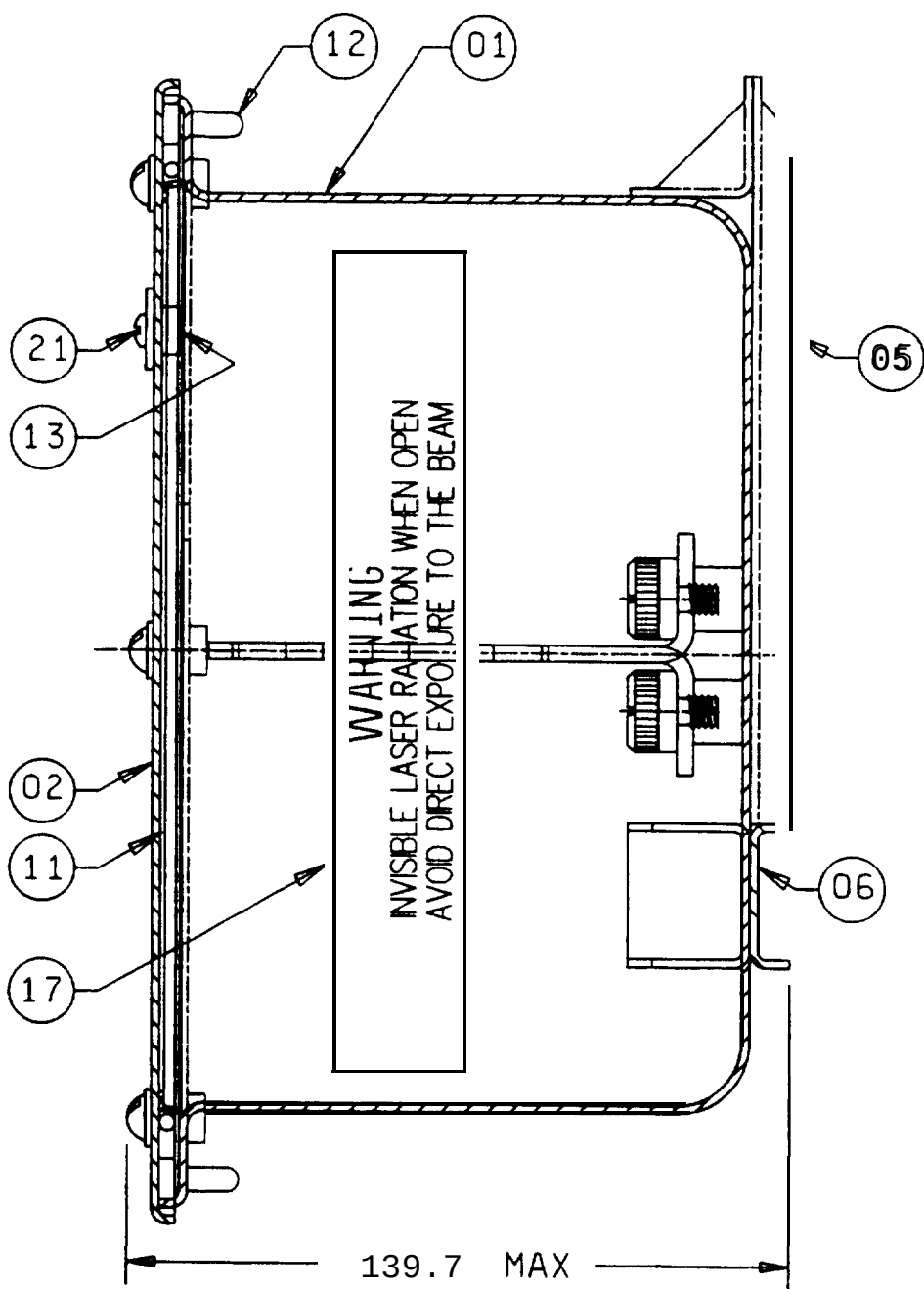
FIGURE 1 Enclosure assembly, M24728/4 001

AMSC N/A

1 of 13

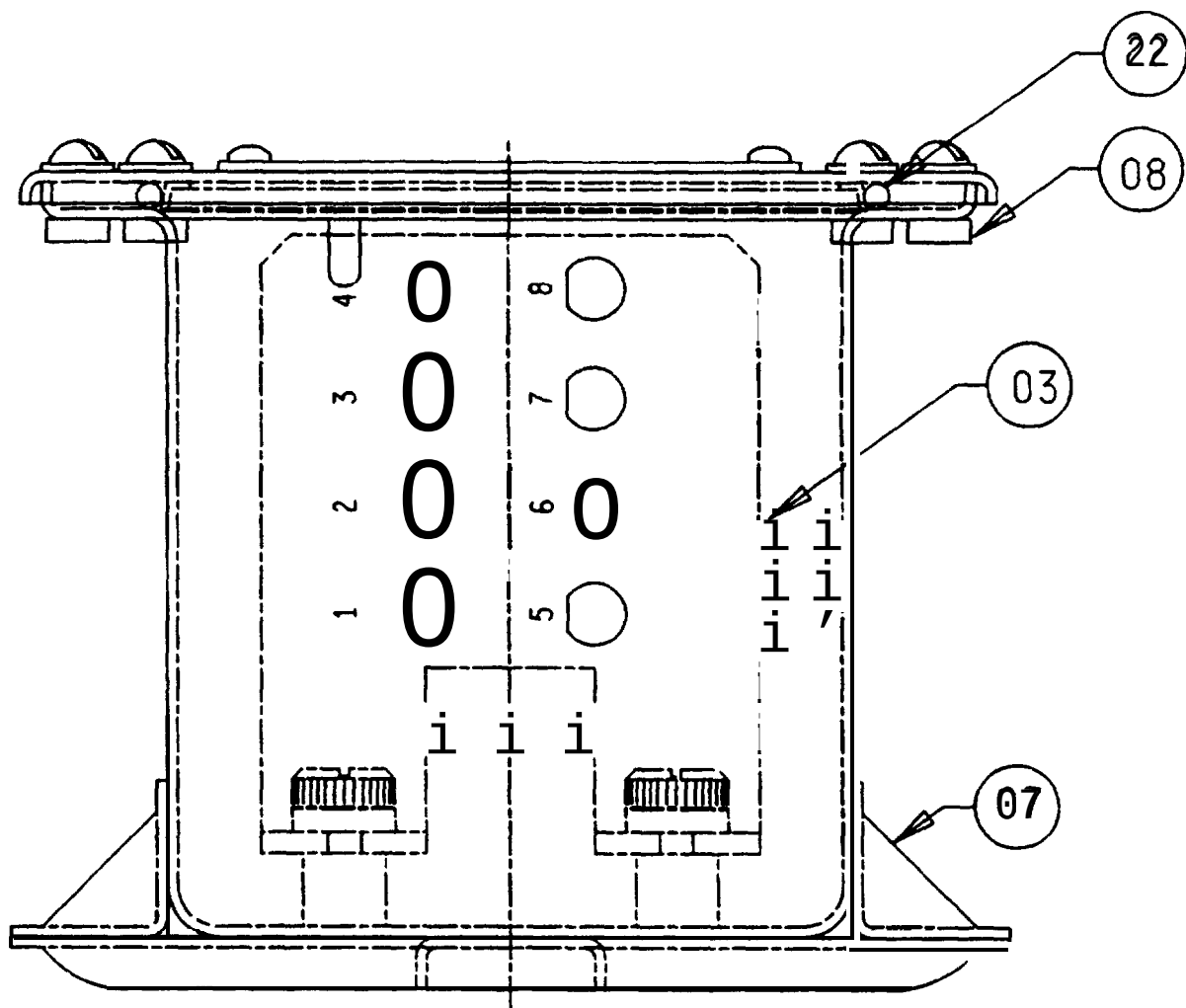
FSC 5975

DISTRIBUTION STATEMENT A Approved for public release distribution is unlimited



SECTION A-A

FIGURE 1 Enclosure assembly, M24728/4 001 - Continued

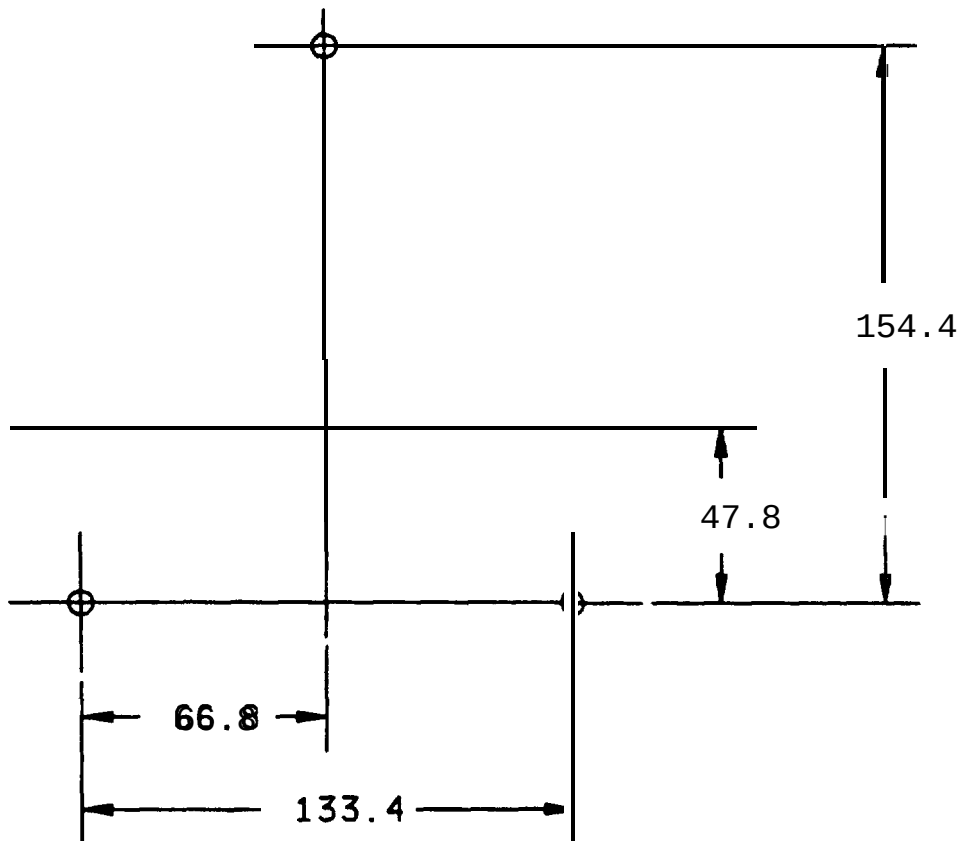


mm	Inches
139 7	5.50
152 4	6.00
228 6	9.00

NOTES

- 1 Dimensions are in millimeters
- 2 Inch-pound equivalents are given for information only
- 3 Unless otherwise specified, tolerance is ± 5 mm (± 1 inch) for one-place decimals
- 4 For identification of subcomponent parts, see table I

FIGURE 1 Enclosure assembly. M24728/4-001 Continued



mm	Inches
953	375
47.8	1.88
66.8	2.63
1334	525
1524	600

NmEs

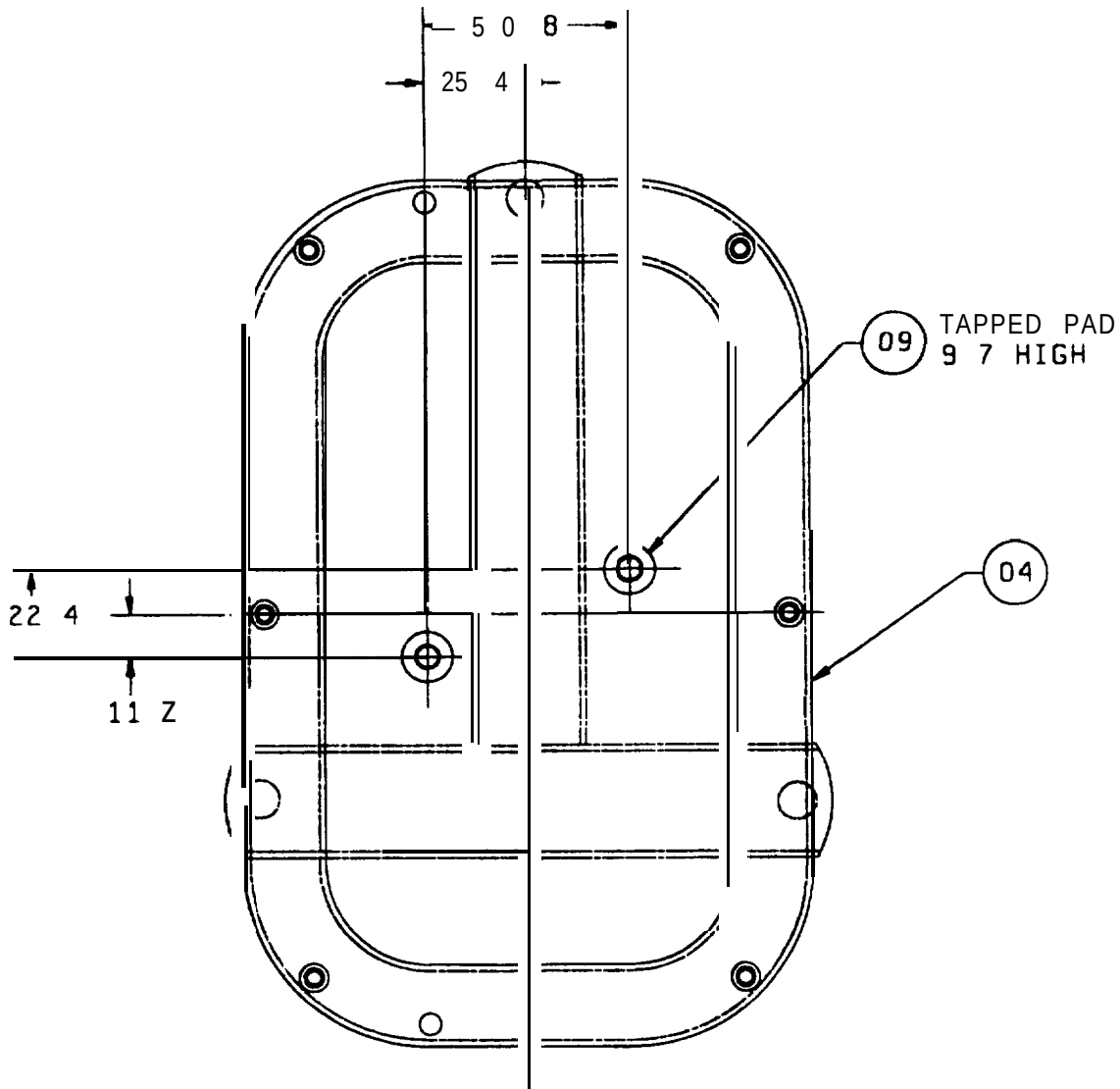
1 Dimensions are in millimeters

2 Inch-pound equivalents are given for Information only

3 Unless otherwise specified, tolerance is ± 0.3 mm (0.01 inch) for two place decimals

4 Mounting holes shall accommodate M9 53 x 1 59 (375-16) bolts

FIGURE 2 Box mounting dimensions

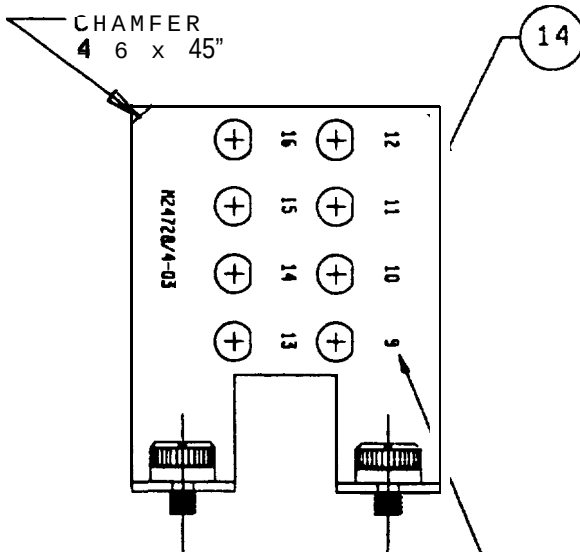
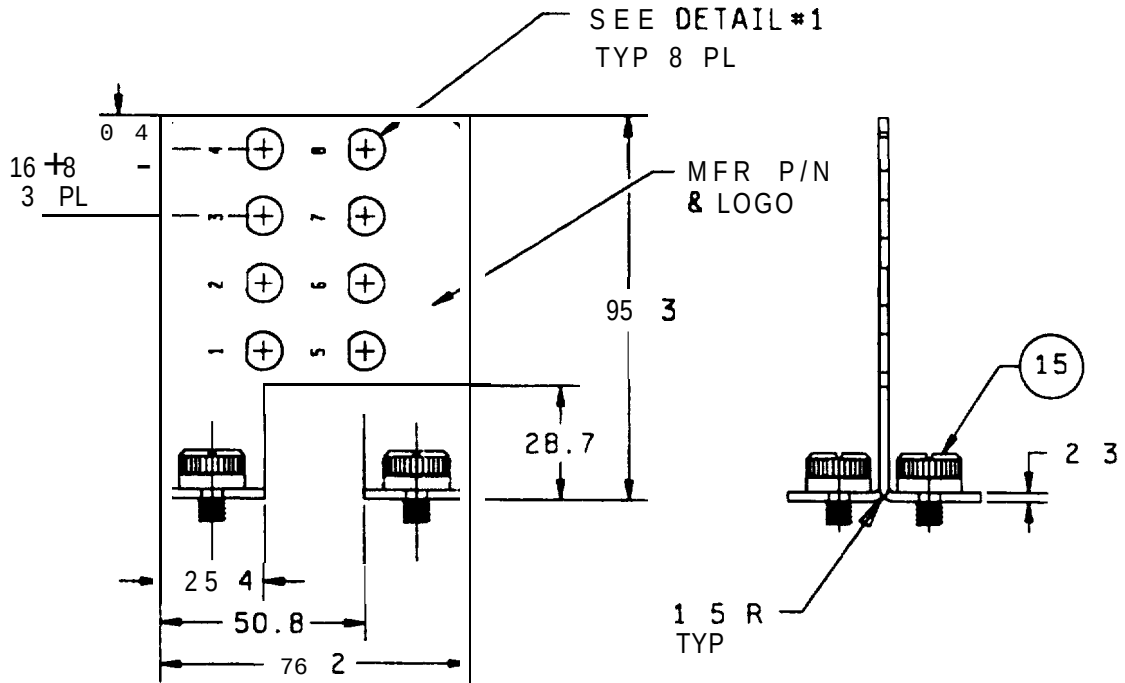


mm	inches
64	25
97	38
112	44
224	88
254	100
508	200

NOTES

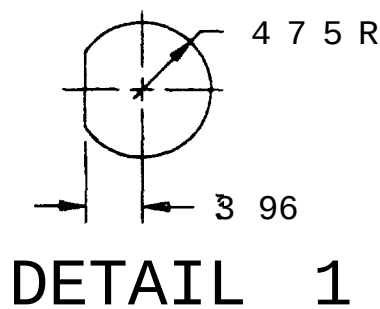
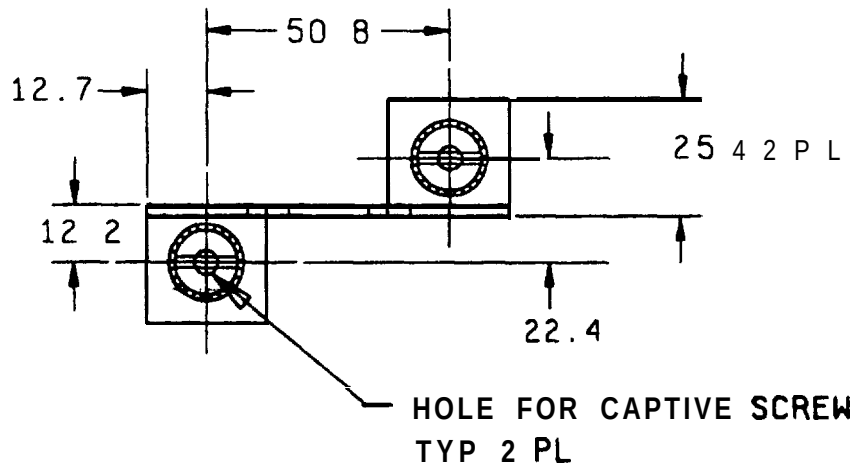
- 1 Dimensions are in millimeters
- 2 Inch-pound equivalents are given for information only
- 3 Unless otherwise specified, tolerance is ± 2.5 mm (1 inch) for one-place decimals, ± 0.3 mm (0.01 inch) for two-place decimals, and ± 0.13 mm (0.005 inch) for three-place decimals. A tolerance of ± 0.8 mm (0.03 inch) is acceptable on dimensions controlled by welding or brazing, providing that this tolerance does not interfere with the interchangeability of assemblies or parts.
- 4 Pad to have M6.35 x 1.27 (.25-20) tap

FIGURE 3 Location of patch panel mounting pads



ALL CHARACTERS TO BE 3.3 TALL,
SILKSCREENED WITH BLACK ENAMEL

FIGURE 4 Patch Panel assembly



DETAIL 1

mm	Inches	mm	Inches	mm	Inches
15	.06	8.4	.33	28.7	1.13
2.3	.09	12.2	.48	50.8	2.00
3.3	.13	127	5.0	76.2	3.00
3%	.156	168	.66	% 3.375	
4.75	.187	224	.88		
4.8	.19	254	1.00		

NOTES

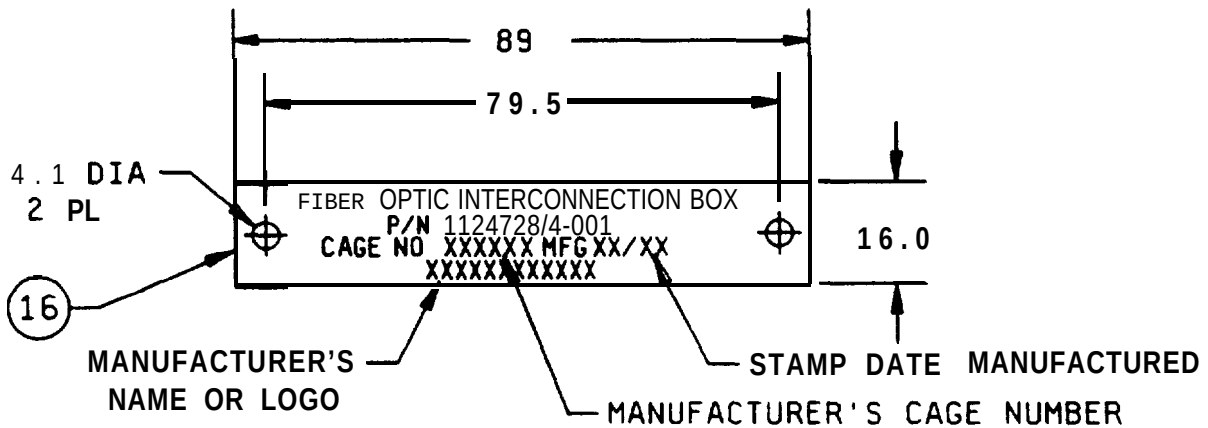
1 Dimensions are in millimeters

2 Inch-pound equivalents are given for information only

3 Unless otherwise specified, tolerance is ± 0.3 mm (0.01 inch) for two-place decimals and ± 0.13 mm (0.005 inch) for three-place decimals

FIGURE 4 Patch panel assembly - Continued

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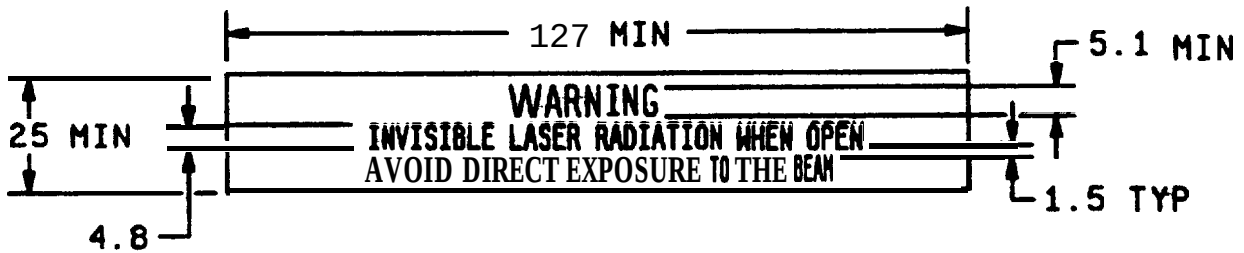


mm	Inches
4.1	.16
16.0	.63
79.5	3.13
89	3.5

NOTES

- 1 Dimensions are in millimeters
- 2 Inch-pound equivalents are given for information only
- 3 Unless otherwise specified, tolerance is ± 0.5 mm (.1 inch) for one-place decimals, and ± 0.3 mm (.01 inch) for two-place decimals

FIGURE 5 Identification plate

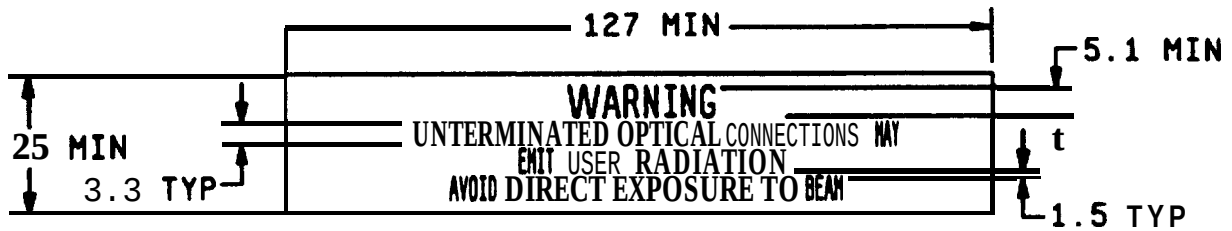


mm	Inches
1 5	06
4 8	19
5 1	20
25 4	1 00
127	5 00

NOTES

- 1 Dimensions are in millimeters
- 2 Inch-pound equivalents are given for information only
- 3 Unless otherwise specified, tolerance is ± 2.5 mm (1 inch) for one-place decimals, and ± 0.3 mm (01 inch) for two-place decimals

FIGURE 6 Inside warning label



mm	Inches
1.5	.06
3.3	.13
5.1	.20
25.4	1.00
127	5.00

NOTES

- 1 Dimensions are in millimeters
- 2 Inch-pound equivalents are given for information only
- 3 Unless otherwise specified, tolerance is ± 2.5 mm (.1 inch) for one-place decimals, and ± 0.3 mm (.01 inch) for two-place decimals

FIGURE 7 Outside warning label

TABLE I Parts list

Subcomponent identification numbers, circled (see figures 1 through 7)	Part name	PIN M24728/4		Subassembly number			Remarks and reference figures
		001	002	01	02	03	
01	Box assembly	1		1			1 and 3
02	Cover assembly	1			1		1
03	Patch panel assembly	1	1			1	1 and 4
04 1/ 2/	1016 X 1778 bOX			1			1
05 1/ 3/	Mounting leg			1			1
06 1/ 3/	Mounting leg			1			1
07 1/ 4/	Gusset			3			1
08 1/ 5/	Flange pad			6			1
09 1/	Panel mounting pad			2			3
10 1/ 2/	101.6 x 177.8 cover				1		1
11 1/ 2/	Gasket retainer				1		1
12 1/ 2/	Dowel pin				2		1
13 1/	M3 5 x 79 (6-32) pad				2		1
14 1/	Patch panel		1			1	4
15 6/ 8/	M6 35 x127 (25-20) captive screw		2			2	4
16 1/	Identification plate	1					5
17 7/	Warni ng label (inside)	1					6
18 7/	Warning label (outside)	1					7
19 1/ 2/	M2.5 x 1.06 (10-24) X 12 7 RHMS	6					1
20 1/	25 (#10) flat washer	6					1
21 1/	M3 5 x .79 (6-32) X6.35 RHMS	2					1
22 2/	Gasket	1					1

1/ Brass alloy **C26000** in accordance with **ASTM-B-36**

2/ In accordance with **MIL-E-24142/4**

3/ In accordance with **MIL-E-24142**, figure 3

4/ In accordance with **MIL-E-24142**, figure 7

5/ In accordance with **MIL-E-24142**, figure 10

6/ CREs

7/ In accordance with **MIL-P-15024**, type G, adhesive-backed. metal foil

8/ In accordance with **MIL-I-24728/6**

MIL 1 24728/4

REQUIREMENTS

Design and construction See figures 1 through 7 and table I

The Interconnection box shall be in accordance with MIL E 24142

Enclosure assemblies shall be class 1A conversion coated in accordance with MIL C 5541 before being epoxy powder coated

Enclosure assemblies shall be stress relieved in accordance with MIL-E-24142

Mass

M24728/4 -001 2 27 kilograms (5 pounds) maximum

Interconnection box mounting, See figure 2

Interconnect organization

Fiber optic connector adapters The interconnection box shall organize up to 8 MIL-C-83522/17 connector adapters

Cable retention Not applicable

Cable seal flexing Not applicable

Cable twist Not applicable

Compression resistance Not applicable

Impact Not applicable

Flammability Not applicable

Salt spray Not applicable

Flame spread Not applicable

Fungus test shall be conducted only on polymeric materials

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

Part or Identifying Number (PIN) See table I

M24728/4-001 80X and cover with patch panel assembly

M24728/4-002 Patch panel assembly

Qualification by similarity Manufacturers who produce products for both MIL-I 24728/5 and this specification sheet and are qualified under MIL-I 24728/5 and pass the water pressure test and size inspection specified herein, are qualified under this slash sheet

The US Government preferred system of measurement is the metric SI system However, this item was originally designed using inch pound units of measurement In the event of conflict between the metric and inch.pound units, the inch-pound units shall take precedence

CONCLUDING MATERIAL

Custodians

Army - CR

Navy - SH

Air Force - 85

NASA - NA

Review activities

Army - AR, MI

Navy - AS, CG, EC, MC, YD

Air Force - 17, 19, 80, 99

DLA - ES

Preparing activity

Navy - SH

Agent

DLA - ES

(Project 6099-0003-02)