

DETAIL SPECIFICATION SHEET

FUSE BOXES, FEEDER DISTRIBUTION, SUBMERSIBLE
(15 FEET), 125 VOLTS, ALTERNATING CURRENT, SINGLE PHASE BUSES,
0-30 AMPERE MIDGET FUSES,
SYMBOLS 635.1, 653.1 AND 654.1

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-24646](#).

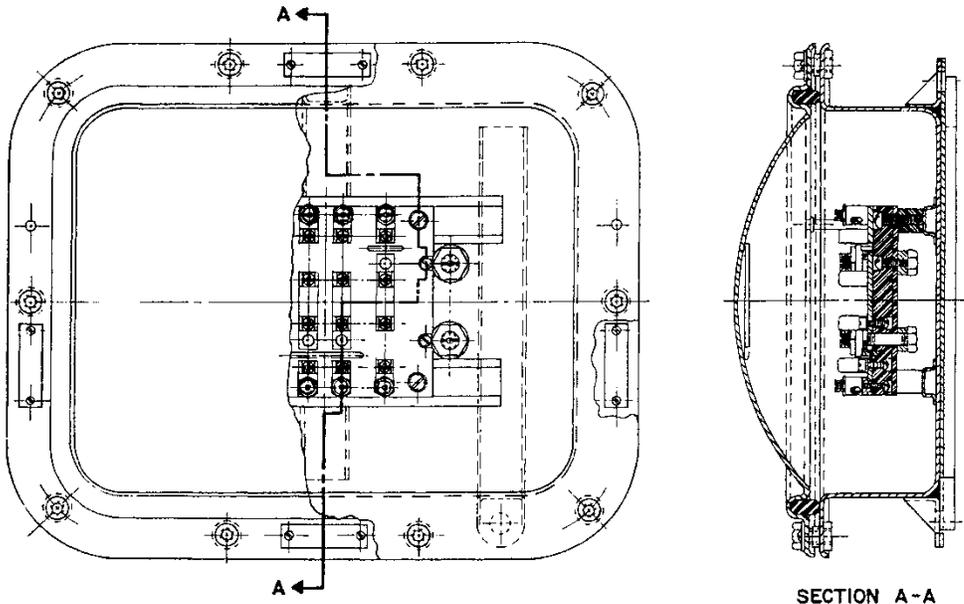


FIGURE 1. Fuse box assembly, typical. Item No. 01, 02, 03
(Symbol 635.1 shown)

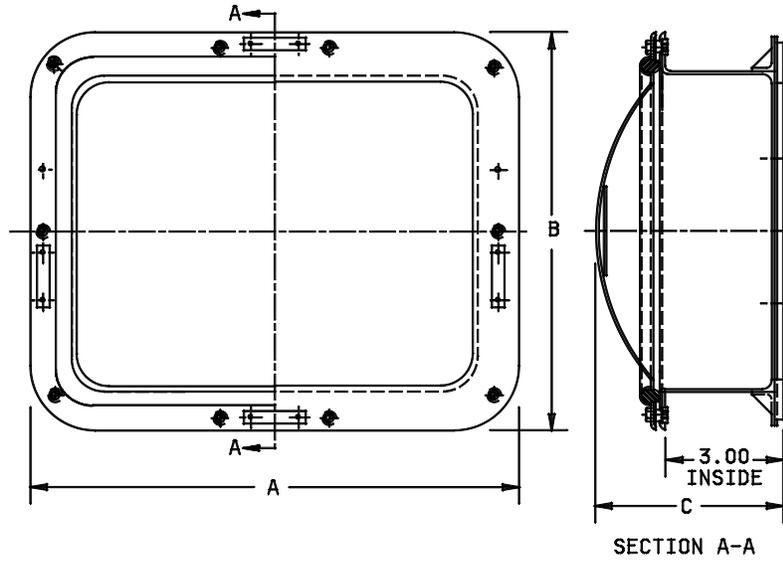
NOTES:

1. Dimensions are in inches.
2. Unless otherwise specified herein, tolerances shall be as follows:
Two place decimals - plus or minus 0.02.
Three place decimals - plus or minus 0.005.

AMSC N/A

FSC 5920



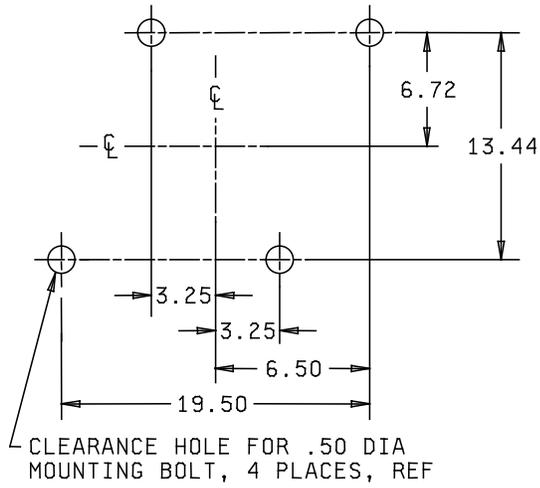
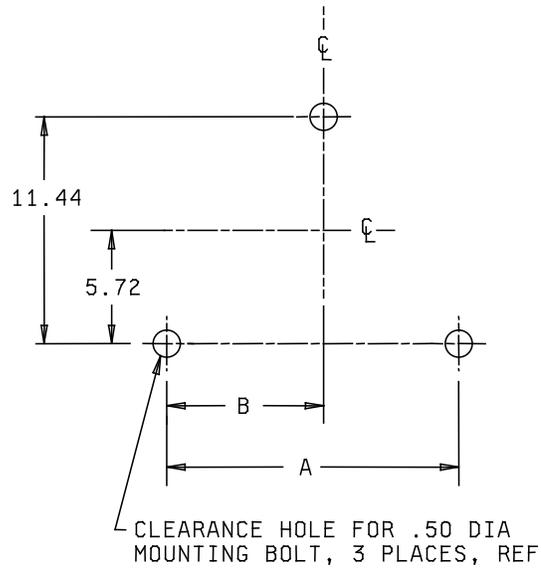


Symbol no.	Dimension (ref.)		
	A	B	C
635.1	16.38	13.38	5.62
654.1	19.38	13.38	5.62
653.1	27.38	15.38	5.62

FIGURE 2. Enclosure, overall dimensions. Item No. 04, 05, 06
(Symbols 635.1, 654.1, and 653.1)

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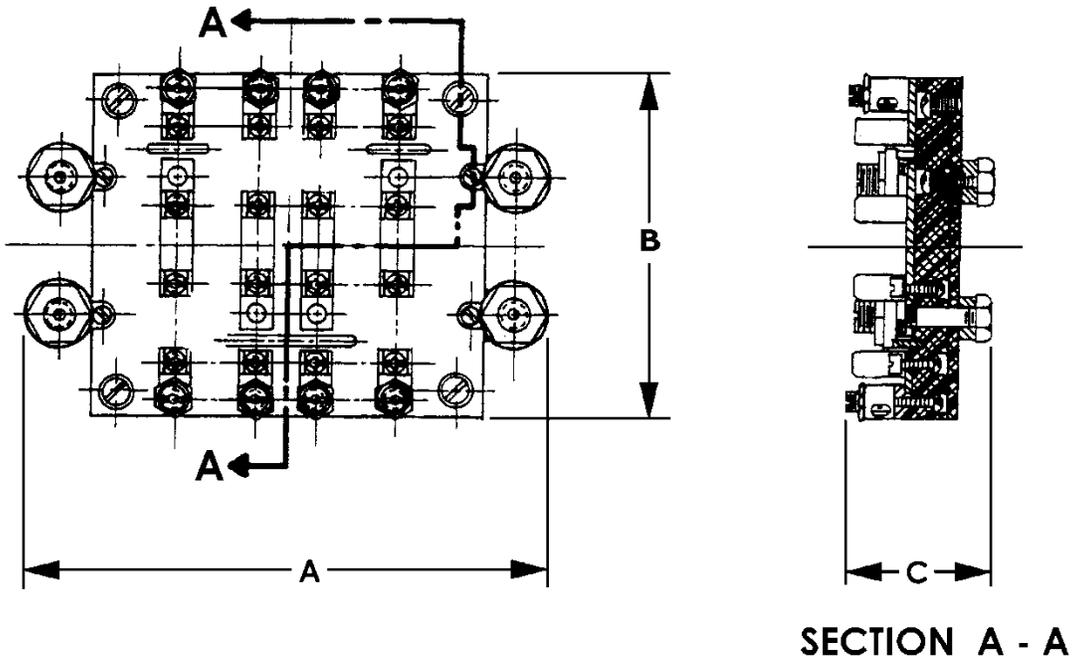
A, Symbols 635.1, and 654.1.



B. Symbol 653.1

SYMBOL NO	DIMENSIONS	
	A	B
635.1	9.25	4.62
654.1	11.75	5.88

FIGURE 3. Mounting dimensions, ref.

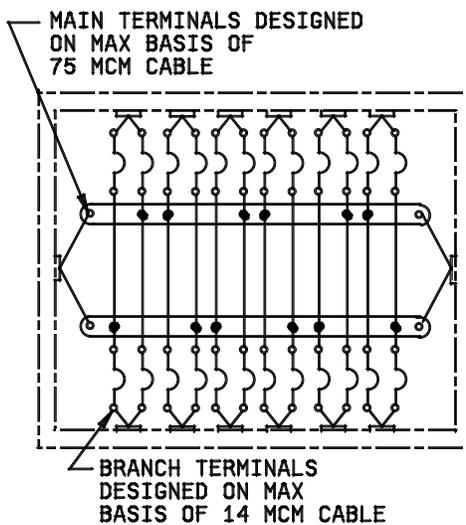
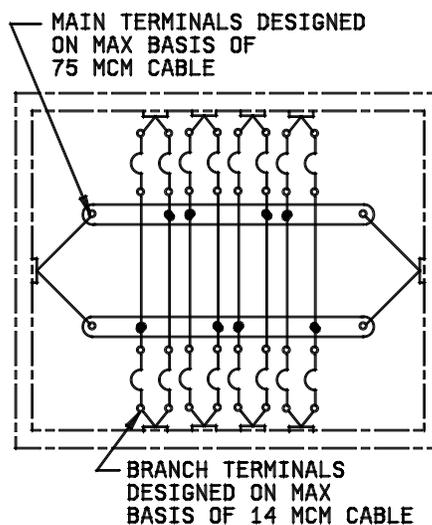
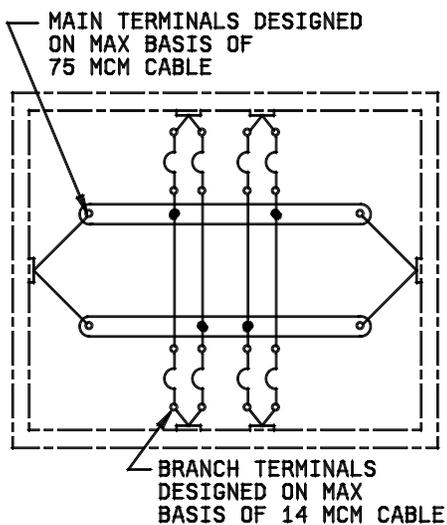


SYMBOL NO	DIMENSIONS (MAX)		
	A	B	C
635.1	7.50	5.00	2.30
654.1	12.63	5.00	2.30
653.1	20.25	6.38	2.30

FIGURE 4. Fuse block assembly, typical. Item No. 07, 08, 09
(Symbols 635.1, 654.1, and 653.1)

A. Four single-phase branches
(Symbol 635.1)

B. Eight single-phase branches
(Symbol 654.1)



C. Twelve single-phase branches
(Symbol 653.1)

FIGURE 5. Wiring diagrams. Item No. 10, 11, 12

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REQUIREMENTS

Symbol numbers: See [table I](#).

Design:

Electrical rating: 125 volts alternating current, 0-30 ampere, 60 hertz.

Dimensions and configuration: See [figures 1, 2, 3 and 4](#).

Wiring diagrams: See [figure 5](#).

Mounting dimensions: See [figure 3](#).

Degree of enclosure: Submersible (15 feet).

Designation and marking: See [MIL-DTL-24646](#).

Parts: The parts listed in [table II](#) and specified in [MIL-DTL-24646](#) shall be used in the construction of the fuse boxes specified herein.

General information:

Military part numbers and general information are as specified in [table I](#).

TABLE I. Military part numbers and general information.

Military part no.	Symbol no.	Approx. Weight in pounds 1/	No. of circuits	Feeder MCM	Branch MCM	Fuse size	Bus bar size	Supersedes	
								Drawing no.	Type
M24646/7-001	635.1	23.5	4	75	14	midget 0-30A	0.62 x 0.25	9-S-74200	N/A
M24646/7-002	654.1	28.5	8	75	14	midget 0-30A	0.62 x 0.25	9-S-5305	XXXV
M24646/7-003	653.1	52.6	12	75	14	midget 0-30A	0.62 x 0.25	9-S-5306	XXXV

1/ The weight of these fuse boxes may vary + or - 15 percent.

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TABLE II. Part list.

Item no. ^{1/}	Description	QTY M /-			Material/specification	Remarks
		001	002	003		
01	Fuse box assembly (sym 635.1)	-			MIL-DTL-24646/7	See figure 1
02	Fuse box assembly (sym 654.1)		-		MIL-DTL-24646/7	See figure 1
03	Fuse box assembly (sym 653.1)			-	MIL-DTL-24646/7	See figure 1
<u>2/</u> 04	Enclosure (10 x 13 x 3)	1			M24142/6-004	See figure 2
<u>2/</u> 05	Enclosure (10 x 16 x 3)		1		M24142/6-005	See figure 2
<u>2/</u> 06	Enclosure (12 x 24 x 3)			1	M24142/6-010	See figure 2
07	Fuse block assembly	1			MIL-DTL-24646/7	See figure 4
08	Fuse block assembly		1		MIL-DTL-24646/7	See figure 4
09	Fuse block assembly			1	MIL-DTL-24646/7	See figure 4
10	Wiring diagram	1			MIL-DTL-2036	See figure 5
11	Wiring diagram		1		MIL-DTL-2036	See figure 5
12	Wiring diagram			1	MIL-DTL-2036	See figure 5
13	Fuse clip (0-30A)	16	32	48	A-A-55507/1-04	N/A
14	Identification plate	1	1	1	Brass, ASTM B36/B36M B121/B121M	N/A
15	Information plate	4	8	12	Brass, ASTM B36/B36M B121/B121M	N/A

- ^{1/} Item numbers by the figure titles are the same as the item numbers shown in this table.
- ^{2/} Enclosure is same as [MIL-E-24142/6](#), except for inside depth which is 3 inches instead of 5 inches shown.

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Referenced documents. In addition to [MIL-DTL-24646](#), this document references the following:

[MIL-DTL-2036](#) [MIL-E-24142/6](#) [ASTM B36/B36M](#) [ASTM B121/B121M](#)

The margins of this specification sheet 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 last previous issue.

Custodian:
Navy - SH
DLA - CC

Preparing activity:
DLA - CC

(Project 5920-2015-004)

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