MIL-STD-1632A

27 March 1978

SUPERSEDING
MIL-STD-1632(NAVY)
23 April 1975

MILITARY STANDARD

INSERT ARRANGEMENTS FOR MIL-C-28804 HIGH DENSITY, RECTANGULAR, ELECTRICAL CONNECTORS

FSC 5935

DEPARTMENT OF DEFENSE
WASHINGTON, D.C. 20301

Insert Arrangements for MIL-C-28804
High Density, Rectangular, Electrical Connectors

MIL-STD-1632

1. This Military Standard is approved for use by all Departments and Agencies of the Department of Defense.

2. Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: Naval Electronic Systems Command, Code 5043, Washington, D.C. 20360, by using the self-addressed Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

CONTENTS

SECTIONS

1. SCOPE

1.1 This Standard covers insert arrangements for use with MIL-C-28804A High Density Rectangular Electric Connectors.

2. REFERENCED DOCUMENTS

2.1 Issues of documents. The following documents of the issue in effect on date of invitation for bids or request for proposal form a part of this standard to the extent specified herein.

SPECIFICATION

MILITARY

MIL-C-28804 - Connectors, Electric, Rectangular, High Density, Polarized Center Screwlock

(Copies of specifications, standards, drawings, and publications required by contractors in connection with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer.)

2.2 Other publications. The following document forms a part of this standard to the extent specified herein. Unless otherwise indicated, the issue in effect on date of invitation for bids or request for proposal shall apply.

ANSI Y14.5 - 1973 - Dimensioning and Tolerancing.

(Application for copies should be addressed to American National Standards Institute, Inc. 1430 Broadway, New York, NY 10018.)

3. DEFINITIONS

3.1 The terms used in this standard are generally accepted by the electrical and electronics industries and commonly used in electrical connector engineering practice.

4. GENERAL REQUIREMENTS

Not applicable.

5. DETAIL REQUIREMENTS

5.1 Dimensions. Dimensions shall be in accordance with the applicable section of this standard and the following dimensional data:

a. Dimensioning and tolerancing in accordance with ANSI Y14.5 - 1973. Dimensions are true position and are in inches.
b. Metric equivalents are given for general information only and are based upon 1.00 inch = 25.4 mm.
c. Dimensions and markings shown are for engaging face of pin insert; socket insert is opposite.
d. Contact holes in insert shall be located on TP (true position) within .005 (.13 mm) diameter circle.
e. Tolerances are: XXX ±.010, XX ±.030 and angles ±0° 30'.
f. Polarization shall be in accordance with MIL-C-28804.

5.2 Contacts. Contacts shall be in accordance with MIL-C-28804/9, MIL-C-28804/10, or the applicable connector specification sheet.

5.3 Marking. Marking shall be in accordance with MIL-C-28804 and as shown in the applicable section of this standard.

Custodians:
Army - EL
Navy - EC
Air Force - 11

Review activities:
Army - MI, AT
Navy - AS
Air Force - 85, 99
DLA - ES

User activities:
Army - AM, ME, AR
Navy - MC
Air Force -

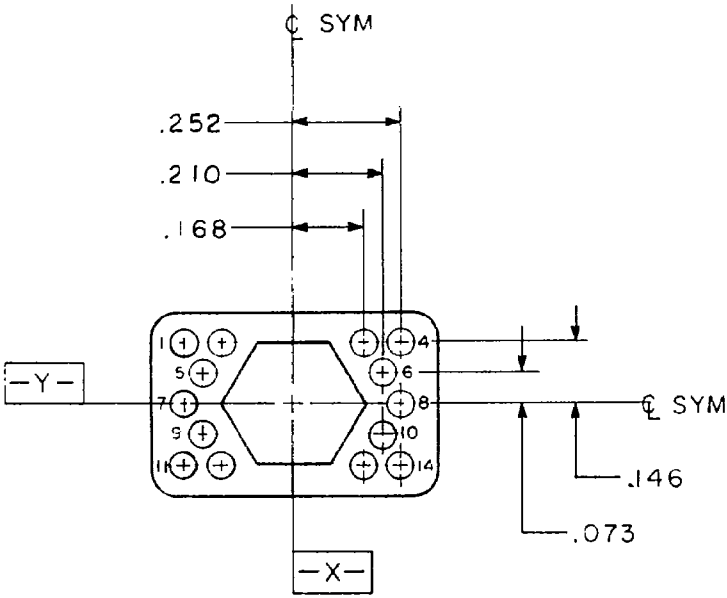
Preparing activity:
Navy - EC

Agent:
DLA - ES

(Project 5935-2093-13)

SECTION 10

SHELL SIZE 8

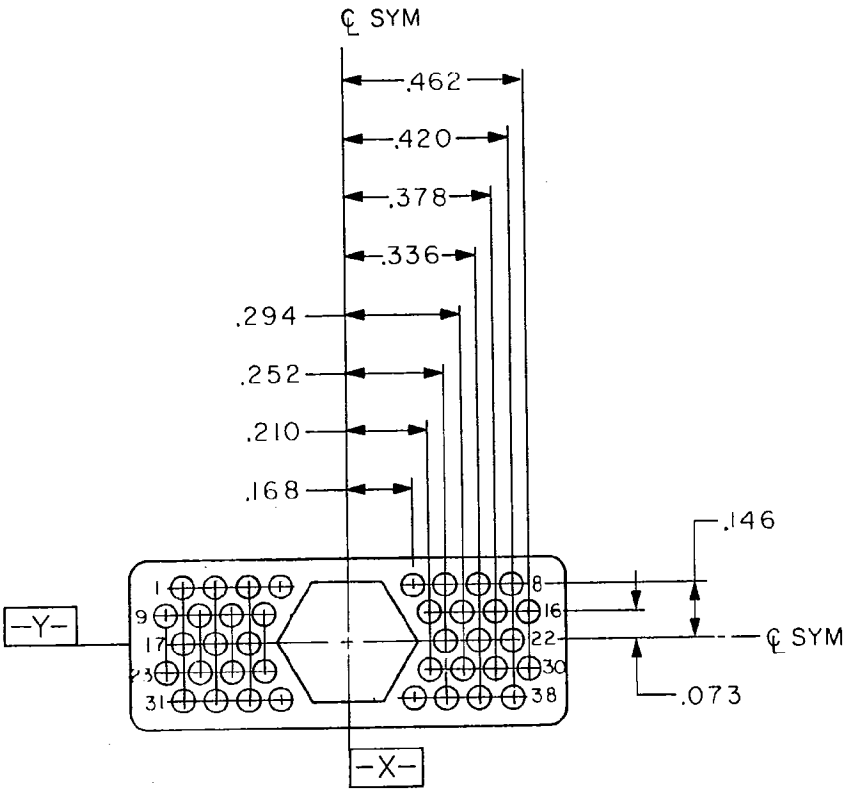


INCHES	MM
.073	1.85
.146	3.71
.168	4.27
.210	5.33
.252	6.40

Arrangement No.	Number of contacts	Size contacts
1	14	22

SECTION 20

SHELL SIZE 10

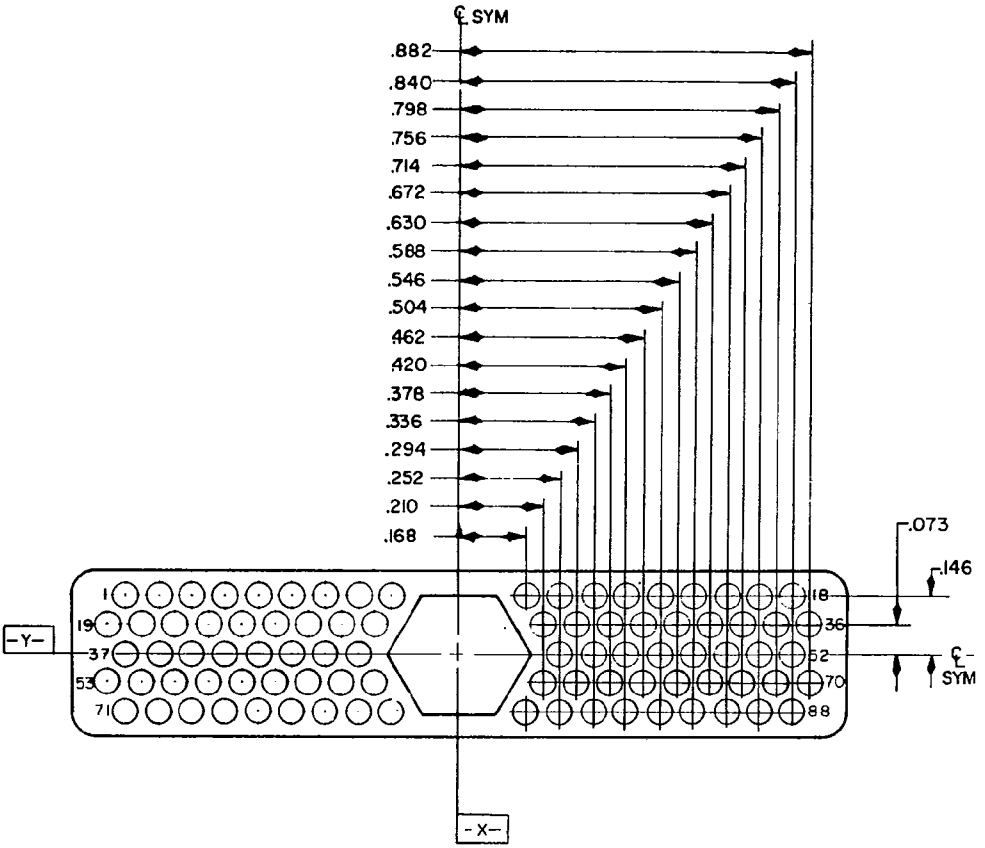


INCHES	MM
.073	1.85
.146	3.71
.168	4.27
.210	5.33
.252	6.40
.294	7.47
.336	8.53
.378	9.60
.420	10.67
.462	11.73

Arrangement No.	Number of contacts	Size contacts
1	38	22

SECTION 30

SHELL SIZE 12

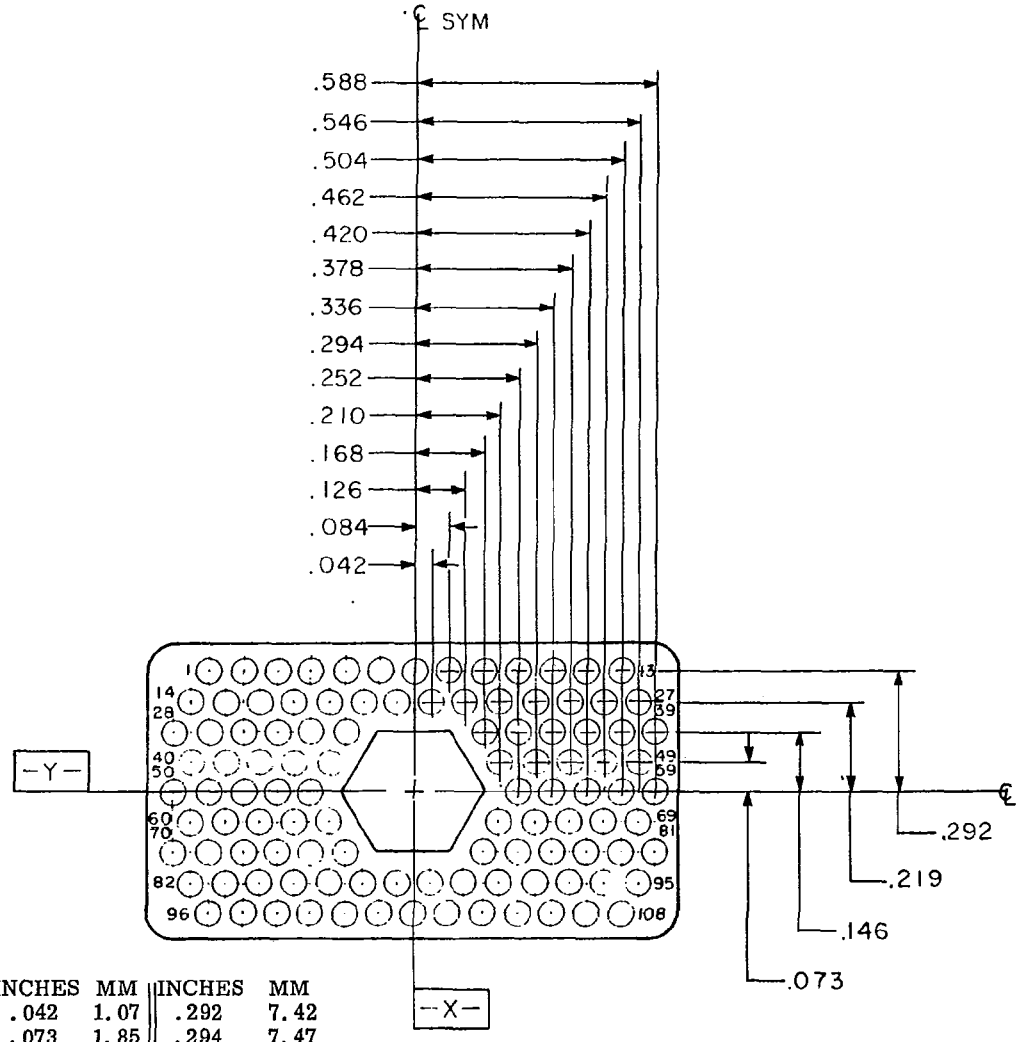


INCHES	MM	INCHES	MM
.073	1.85	.504	12.80
.146	3.71	.546	13.87
.168	4.27	.588	14.93
.210	5.33	.630	16.00
.252	6.40	.672	17.07
.294	7.47	.714	18.13
.336	8.53	.756	19.20
.378	9.60	.798	20.27
.420	10.67	.840	21.34
.462	11.73	.882	22.40

Arrangement No.	Number of contacts	Size contacts
1	88	22

SECTION 40

SHELL SIZE 14

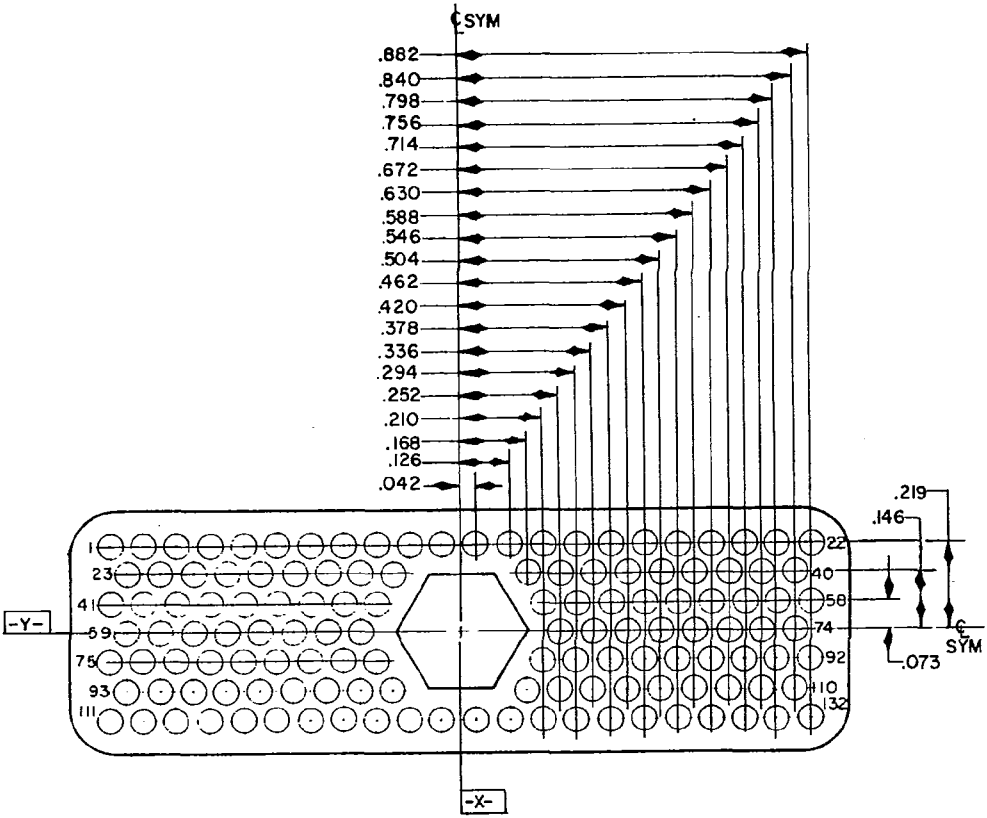


INCHES	MM	INCHES	MM
.042	1.07	.292	7.42
.073	1.85	.294	7.47
.084	2.13	.336	8.53
.126	3.20	.378	9.60
.146	3.71	.420	10.67
.168	4.27	.462	11.73
.210	5.33	.504	12.80
.219	5.56	.546	13.87
.252	6.40	.588	14.93

Arrangement No.	Number of contacts	Size contacts
1	108	22

SECTION 50

SHELL SIZE 16

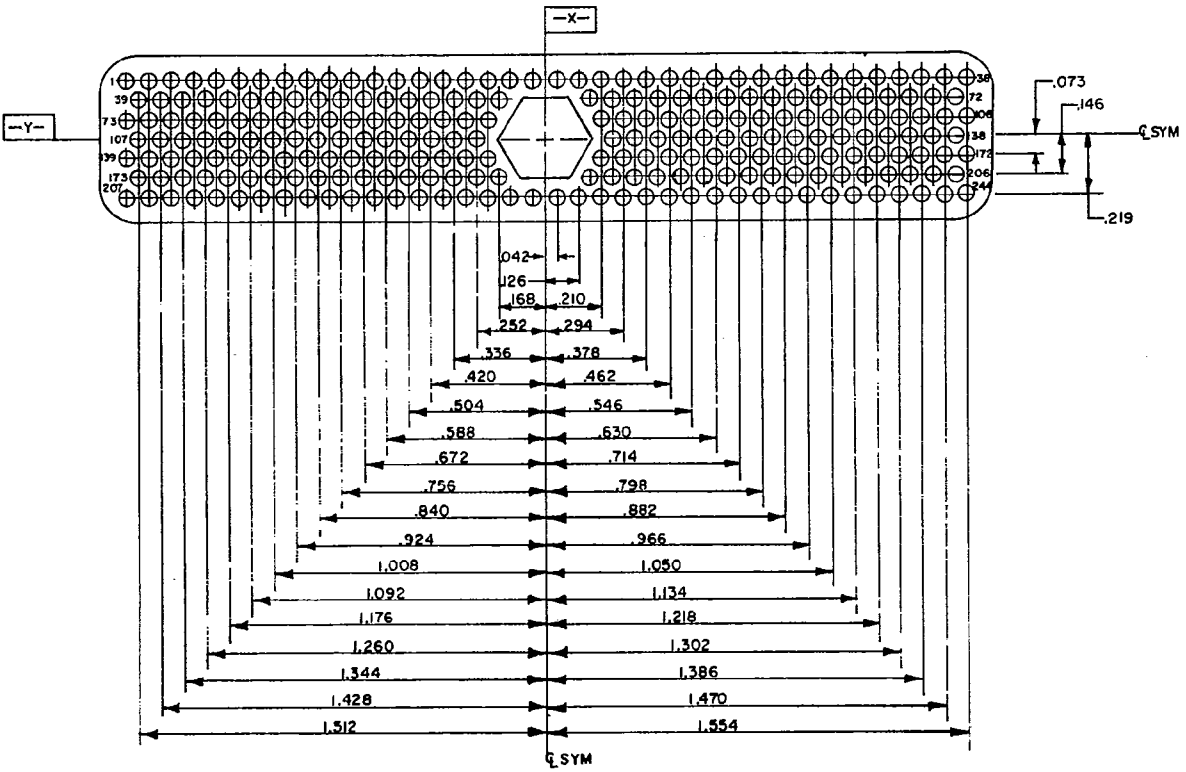


INCHES	MM	INCHES	MM
.042	1.07	.420	10.67
.073	1.85	.462	11.73
.126	3.20	.504	12.80
.146	3.71	.546	13.87
.168	4.27	.588	14.93
.210	5.33	.630	16.00
.219	5.56	.672	17.07
.252	6.40	.714	18.13
.294	7.47	.756	19.20
.336	8.53	.798	20.27
.378	9.60	.840	21.34
		.882	22.40

Arrangement No.	Number of contacts	Size contacts
1	132	22

SECTION 60

SHELL SIZE 18



INCHES	MM	INCHES	MM	INCHES	MM
.042	1.07	.504	12.80	1.050	26.67
.073	1.85	.546	13.87	1.092	27.74
.126	3.20	.588	14.93	1.134	28.80
.146	3.71	.630	16.00	1.176	29.87
.168	4.27	.672	17.07	1.218	30.94
.210	5.33	.714	18.13	1.260	32.00
.219	5.56	.756	19.20	1.302	33.07
.252	6.40	.798	20.27	1.344	34.14
.294	7.47	.840	21.34	1.386	35.20
.336	8.53	.882	22.40	1.428	36.27
.378	9.60	.924	23.47	1.470	37.34
.420	10.67	.966	24.54	1.512	38.40
.462	11.73	1.008	25.60	1.554	39.47

Arrangement No.	Number of contacts	Size contacts
1	244	22