MIL-STD-1674(AS)

25 October 1977

MILITARY STANDARD

INSERT ARRANGEMENTS FOR MIL-C-85028(AS) CONNECTOR, ELECTRIC, RECTANGULAR, INDIVIDUAL CONTACT SEALING, POLARIZED CENTER JACKSCREW

FSC 5935

DEPARTMENT OF DEFENSE
WASHINGTON, D.C. 20301

Insert Arrangements for MIL-C-85028(AS) Connector, Electric, Rectangular, Individual Contact Sealing, Polarized Center Jackscrew.

MIL-STD-1674(AS)

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

2. Recommended corrections, additions, or deletions should be addressed to the Commander, Naval Air Engineering Center, ESSD (Code 93), Lakehurst, New Jersey 08733.

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1. GENERAL

1.1 Scope - This standard covers insert arrangements for use with MIL-C-85028(AS) Rectangular Electric Connectors.

2. REFERENCED DOCUMENTS

2.1 The issue of the following documents in effect on the date of invitation for bids forms a part of this specification to the extent specified herein.

SPECIFICATION

Military

MIL-C-85028(AS)	Connectors, Electrical, Rectangular, Individual Contact Sealing, Polarized Center Jackscrew, General Specification for

(Copies of specifications, standards, drawings and publications required by suppliers 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.

ANSI Y14.5 - 1973	Dimensioning and Tolerancing

(Application for copies should be addressed to American National Standards Institute, Inc., 1430 Broadway, New York, New York 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 (to the nearest .01 mm) are given for general information only and are based upon 1 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-85028(AS).

5.2 Contacts - Contacts shall be in accordance with MIL-C-39029/69(AS), MIL-C-39029/70(AS), or the applicable connector specification sheet.

5.3 Marking - Marking shall be in accordance with MIL-C-85028(AS) and as shown in the applicable section of this standard.

Custodian:

Navy - AS

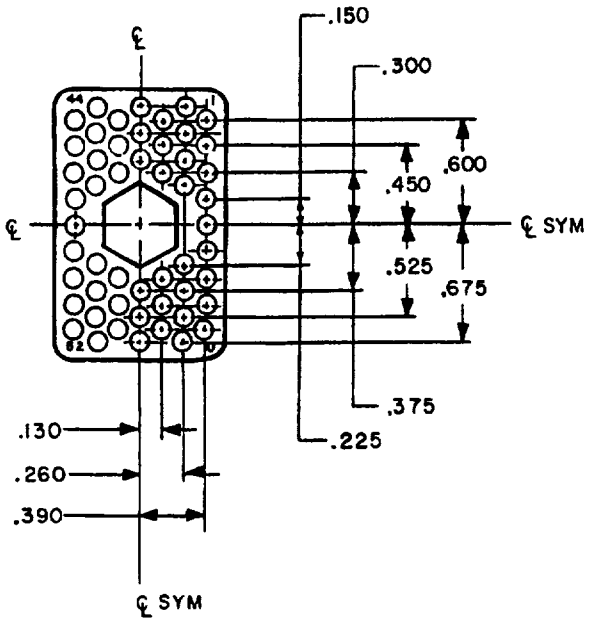
Review Activities:

Navy - EC

Preparing Activity:

Navy - AS

(Project No. 5935-N033-10)



ARRANGEMENT 1

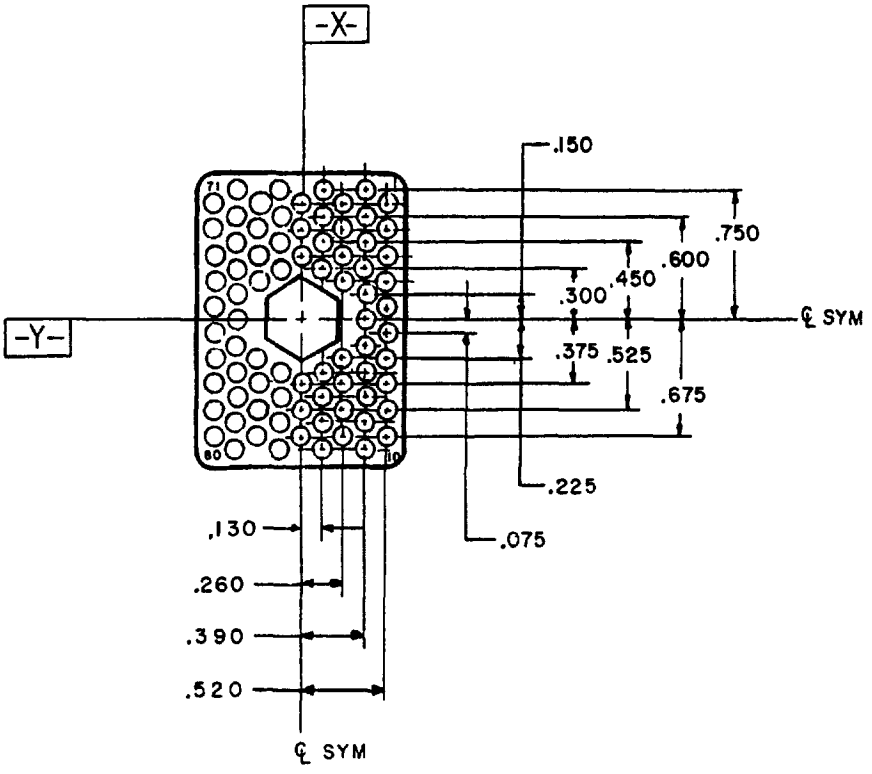
INCHES	MM	INCHES	MM
.130	3.30	.390	9.91
.150	3.81	.450	11.43
.225	5.72	.525	13.33
.260	6.60	.600	15.24
.300	7.62	.675	17.15
.375	9.53		

ARRANGEMENT NO.	NUMBER OF CONTACTS	SIZE CONTACTS
10.1	52	16

Figure 10.1

Shell Style 10, Arrangement 10.1, 52 Contacts, Size 16

SECTION 20



ARRANGEMENT 1

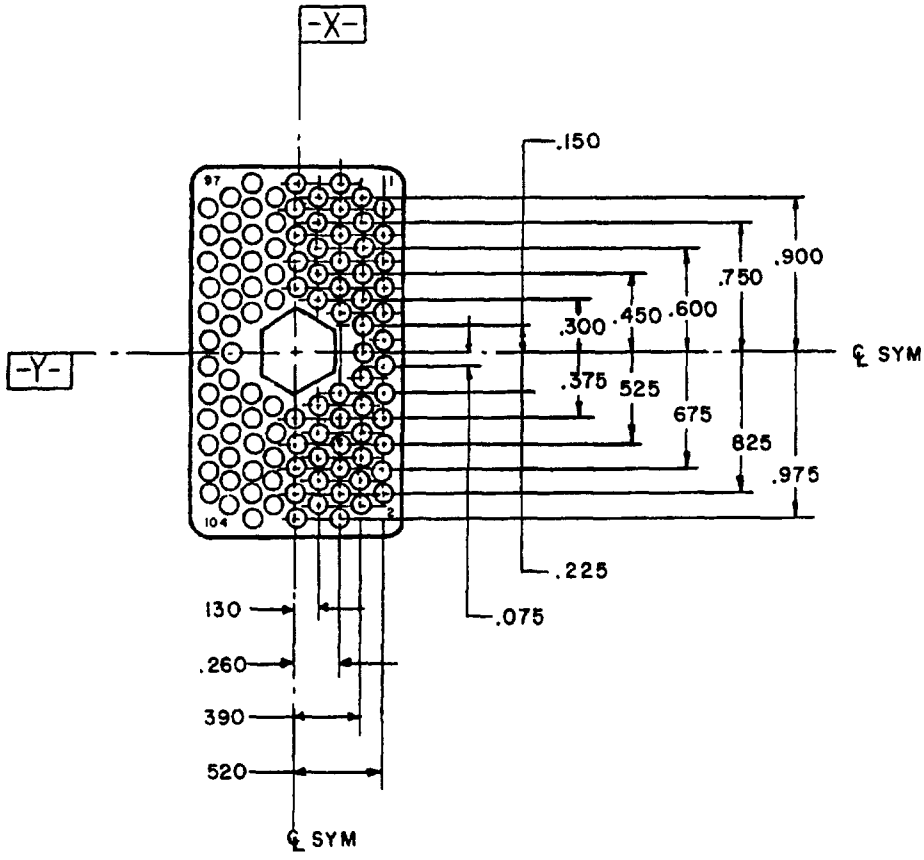
INCHES	MM	INCHES	MM
.075	1.91	.390	9.91
.130	3.30	.450	11.43
.150	3.81	.520	13.21
.225	5.72	.525	13.34
.260	6.60	.600	15.24
.300	7.62	.675	17.15
.375	9.53	.750	19.05

ARRANGEMENT NO.	NUMBER OF CONTACTS	SIZE CONTACTS
20.1	80	16

Figure 20.1

Shell Style 20, Arrangement 20.1, 80 Contacts, Size 16

SECTION 30



ARRANGEMENT 1

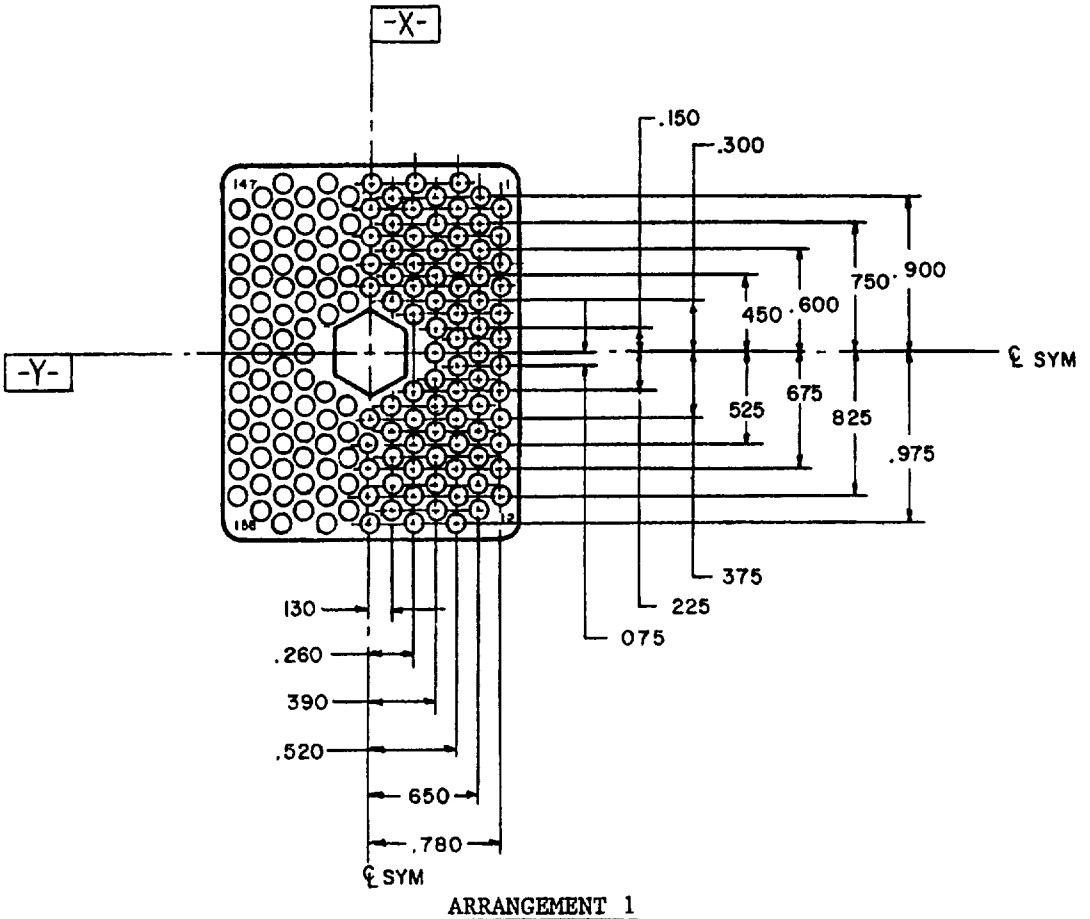
INCHES	MM	INCHES	MM	INCHES	MM
.075	1.91	.375	9.53	.675	17.15
.130	3.30	.390	9.91	.750	19.05
.150	3.81	.450	11.43	.825	20.96
.225	5.72	.520	13.21	.900	22.86
.260	6.60	.525	13.34	.975	24.77
.300	7.62	.600	15.24		

ARRANGEMENT NO.	NUMBER OF CONTACTS	SIZE CONTACTS
30.1	104	16

Figure 30.1

Shell Style 30, Arrangement 30.1, 104 Contacts, Size 16

SECTION 40



ARRANGEMENT 1

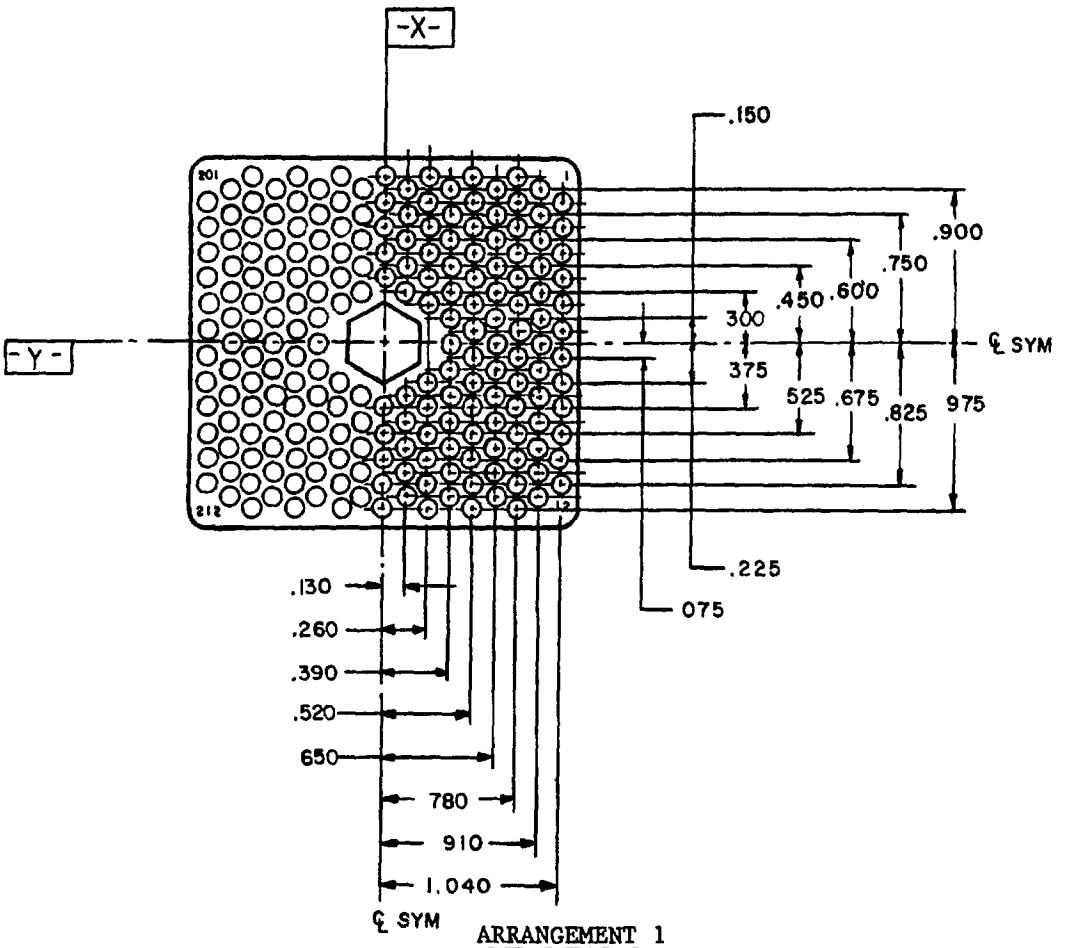
INCHES	MM	INCHES	MM	INCHES	MM
.075	1.91	.375	9.53	.650	16.51
.130	3.30	.390	9.91	.675	17.15
.150	3.81	.450	11.43	.750	19.05
.225	5.72	.520	13.21	.780	19.81
.260	6.60	.525	13.34	.825	20.96
.300	7.62	.600	15.24	.900	22.86
				.975	24.77

ARRANGEMENT NO.	NUMBER OF CONTACTS	SIZE CONTACTS
40.1	158	16

Figure 40.1

Shell Style 40, Arrangement 40.1, 158 Contacts, Size 16

SECTION 50



ARRANGEMENT 1

INCHES	MM	INCHES	MM	INCHES	MM
.075	1.91	.390	9.91	.780	19.81
.130	3.30	.450	11.43	.825	20.96
.150	3.81	.520	13.21	.900	22.86
.225	5.72	.525	13.34	.910	23.11
.260	6.60	.600	15.24	.975	24.77
.300	7.62	.650	16.51	1.040	26.52
.375	9.53	.750	19.05		

ARRANGEMENT NO.	NUMBER OF CONTACTS	SIZE CONTACTS
50.1	212	16

Figure 50.1

Shell Style 50, Arrangement 50.1, 212 Contacts, Size 16