

NOTE: The cover page of this standard has been changed for administrative reasons. There are no other changes to this document.

**INCH-POUND**

**MIL-STD-1674**  
**25 October 1977**

**DEPARTMENT OF DEFENSE**  
**INTERFACE STANDARD**  
**INSERT ARRANGEMENTS**  
**FOR**  
**MIL-C-85028(AS) CONNECTOR, ELECTRIC, RECTANGULAR,**  
**INDIVIDUAL CONTACT SEALING, POLARIZED CENTER JACKSCREW**



MIL-STD-1674(AS)  
25 October 1977

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:

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- (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  $\pm$  .010, XX  $\pm$  .030 and angles  $\pm$  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:

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Preparing Activity:

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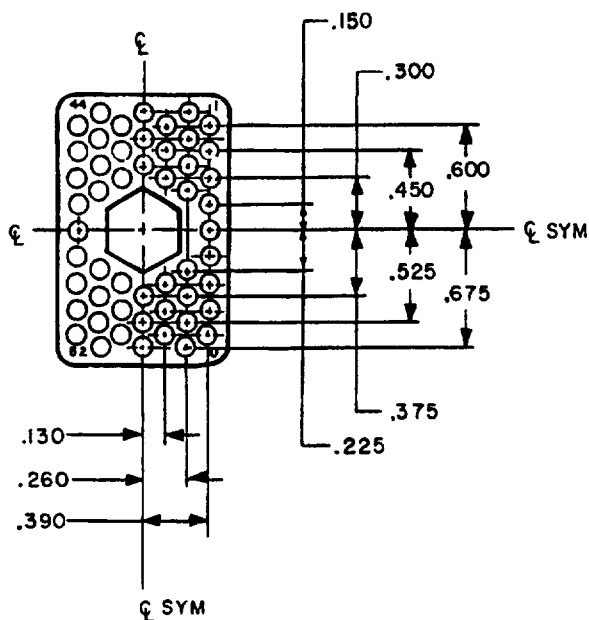
Review Activities:

Navy - EC

(Project No. 5935-N033-10)

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SECTION 10



ARRANGEMENT 1

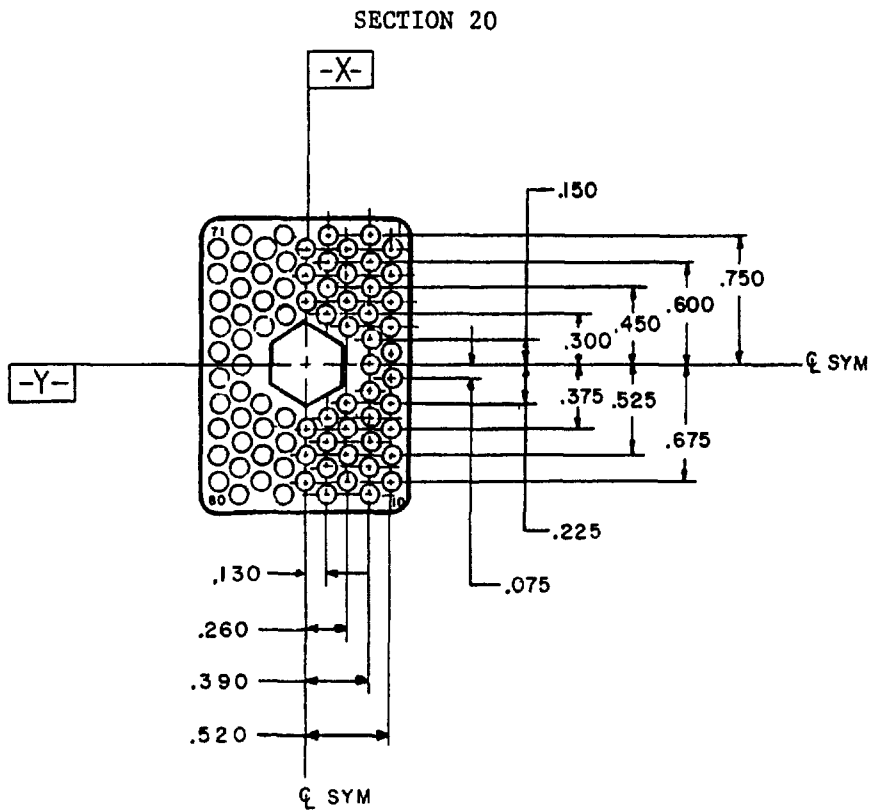
INCHES	MM	INCHES	MM
.130	3.30	.390	9.91
.150	3.81	.450	11.43
.225	5.72	.525	13.33
.260	6.60	.600	15.24
.300	7.62	.675	17.15
.375	9.53		

ARRANGEMENT NO.	NUMBER OF CONTACTS	SIZE CONTACTS
10.1	52	16

Figure 10.1

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

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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

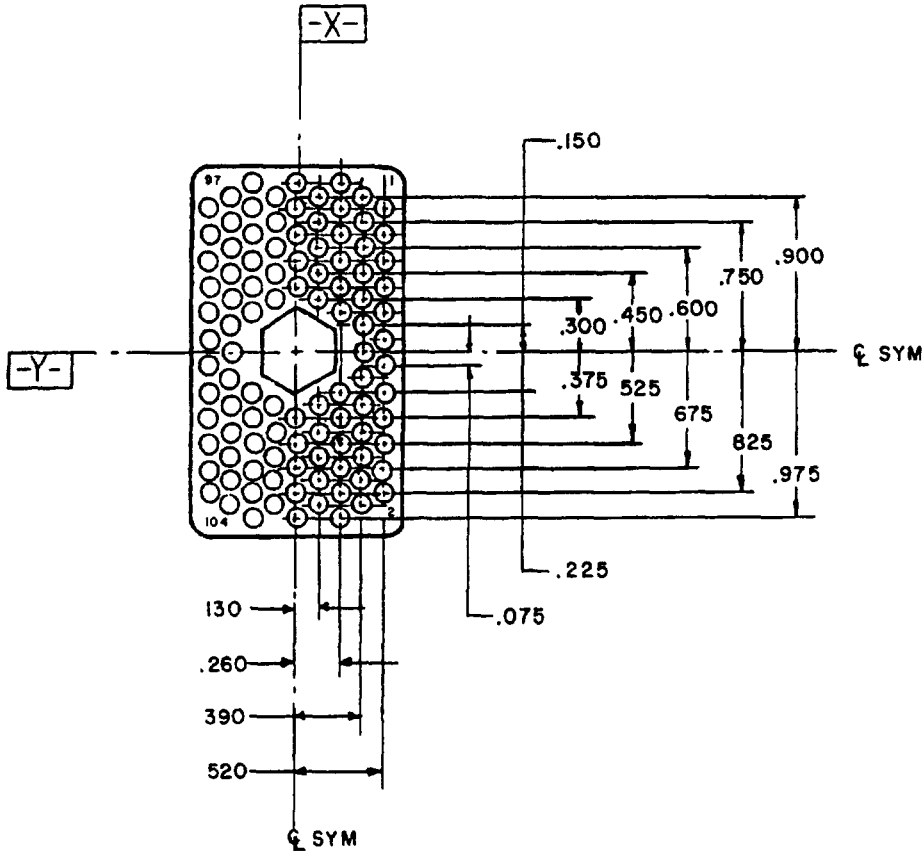
ARRANGEMENT NO.	NUMBER OF CONTACTS	SIZE CONTACTS
20.1	80	16

Figure 20.1

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

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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

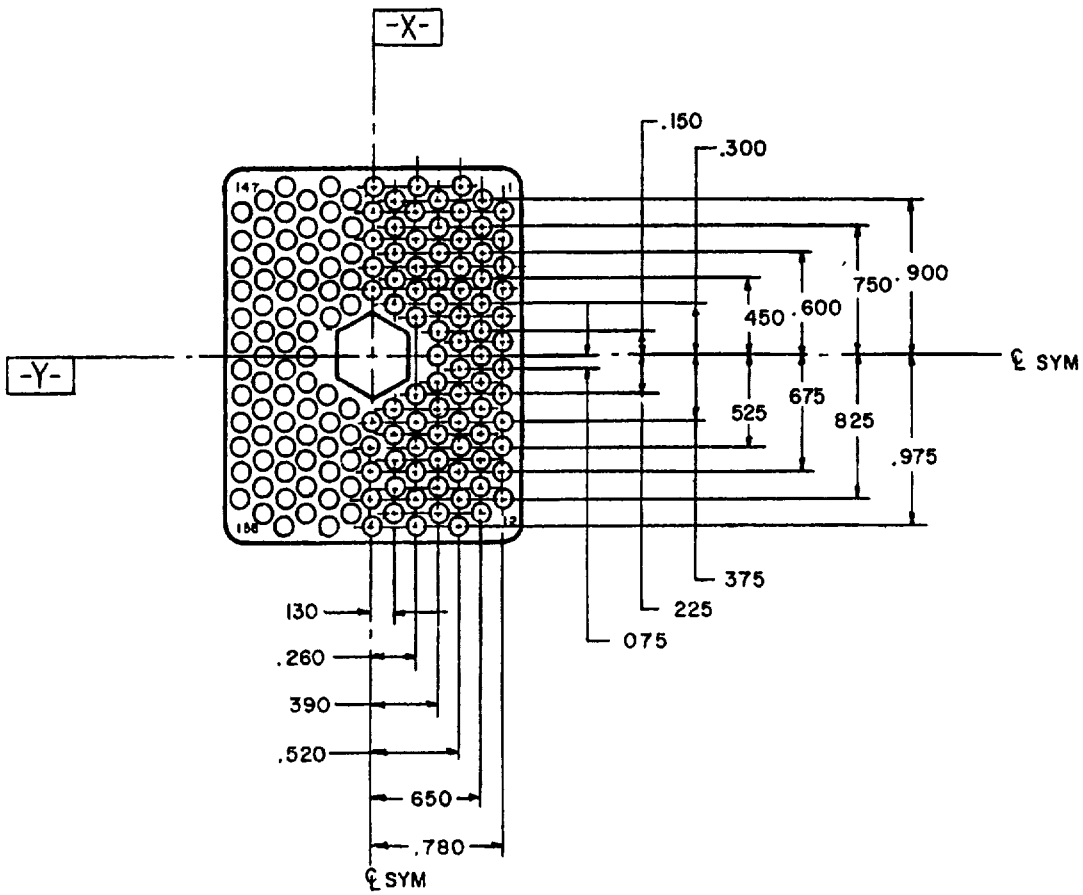
Figure 30.1

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



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SECTION 40



ARRANGEMENT 1

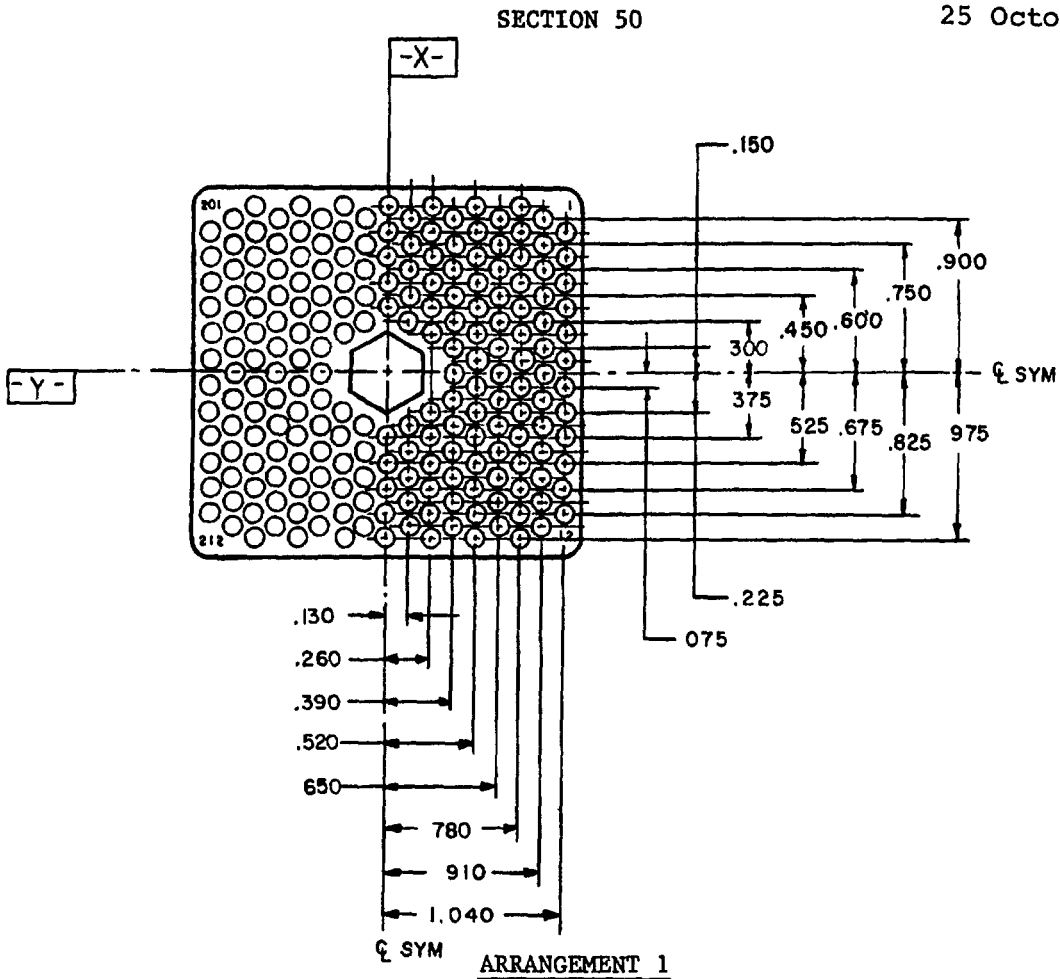
INCHES	MM	INCHES	MM	INCHES	MM
.075	1.91	.375	9.53	.650	16.51
.130	3.30	.390	9.91	.675	17.15
.150	3.81	.450	11.43	.750	19.05
.225	5.72	.520	13.21	.780	19.81
.260	6.60	.525	13.34	.825	20.96
.300	7.62	.600	15.24	.900	22.86
				.975	24.77

ARRANGEMENT NO.	NUMBER OF CONTACTS	SIZE CONTACTS
40.1	158	16

Figure 40.1

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

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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

<b>STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL</b>		OMB Approval No 22-R255
<p><b>INSTRUCTIONS</b> The purpose of this form is to solicit beneficial comments which will help achieve procurement of suitable products at reasonable cost and minimum delay, or will otherwise enhance use of the document. DoD contractors, government activities, or manufacturers/vendors who are prospective suppliers of the product are invited to submit comments to the government. Fold on lines on reverse side, staple in corner, and send to preparing activity. Comments submitted on this form do not constitute or imply authorization to waive any portion of the referenced document(s) or to amend contractual requirements. Attach any pertinent data which may be of use in improving this document. If there are additional papers, attach to form and place both in an envelope addressed to preparing activity. <b>MIL-STD-1674(AS)</b></p>		
<p><b>DOCUMENT IDENTIFIER AND TITLE</b> <b>INSERT ARRANGEMENTS FOR MIL-C-85028(AS) CONNECTOR, ELECTRIC, RECTANGULAR, INDIVIDUAL CONTACT SEALING, POLARIZED CENTER JACKSCREW</b></p>		
NAME OF ORGANIZATION AND ADDRESS	CONTRACT NUMBER	
	<p><b>MATERIAL PROCURED UNDER A</b></p> <p><input type="checkbox"/> DIRECT GOVERNMENT CONTRACT    <input type="checkbox"/> SUBCONTRACT</p>	
<p><b>1 HAS ANY PART OF THE DOCUMENT CREATED PROBLEMS OR REQUIRED INTERPRETATION IN PROCUREMENT USE?</b></p> <p><b>A GIVE PARAGRAPH NUMBER AND WORDING</b></p> <p><b>B RECOMMENDATIONS FOR CORRECTING THE DEFICIENCIES</b></p>		
<p><b>2 COMMENTS ON ANY DOCUMENT REQUIREMENT CONSIDERED TOO RIGID</b></p>		
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	DATE	

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