

MIL-STD-1554  
 NOTICE 1  
15 January 1976

MILITARY STANDARD

INSERT ARRANGEMENTS FOR  
 MIL-C-83723 SERIES III AND MIL-C-26500  
 ENVIRONMENT RESISTING, CIRCULAR,  
 ELECTRICAL CONNECTORS

TO ALL HOLDERS OF MIL-STD-1554:

1. THE FOLLOWING PAGES OF MIL-STD-1554 HAVE BEEN REVISED AND SUPERSEDE THE PAGES LISTED:

<u>NEW PAGE</u>	<u>DATE</u>	<u>SUPERSEDED PAGE</u>	<u>DATE</u>
1	15 January 1976	1	1 July 1975
2	1 July 1975	(REPRINTED WITHOUT CHANGE)	

2. THE FOLLOWING PAGE IS TO BE ADDED:

<u>NEW PAGE</u>	<u>DATE</u>
90.5	15 January 1976

3. RETAIN THIS NOTICE PAGE AND INSERT BEFORE THE TABLE OF CONTENTS.

4. Holders of MIL-STD-1554 will verify that page changes and additions indicated above have been entered. This notice page will be retained as a check sheet. This insurance, together with appended pages, is a separate publication. Each notice is to be retained by stocking points until the Military Standard is completely revised or canceled.

Custodians:

Army - EL  
 Navy - AS  
 Air Force - 85

Preparing activity:

Air Force - 85

(Project 5935-2049)

Review activities:

Army - MU, AV, MI  
 Navy - EC  
 Air Force - 11, 15, 17, 80  
 DSA - ES

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## 1 SCOPE

1.1 This standard covers insert arrangements for use with MIL-C-83723 series III and MIL-C-26500 environment resisting, circular, electrical connectors.

## 2 REFERENCED DOCUMENTS

2.1 The issues of the following documents in effect on the date of invitation for bids form a part of this standard to the extent specified herein

### SPECIFICATIONS

#### MILITARY

- MIL-C-26500 - Connectors, General Purpose, Electrical, Miniature, Circular, Environment Resisting, General Specification for
- MIL-C-83723 - Series III - Connectors, Electrical, (Circular, Environment Resisting), Receptacles and Plugs, 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 Standards Institute, 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

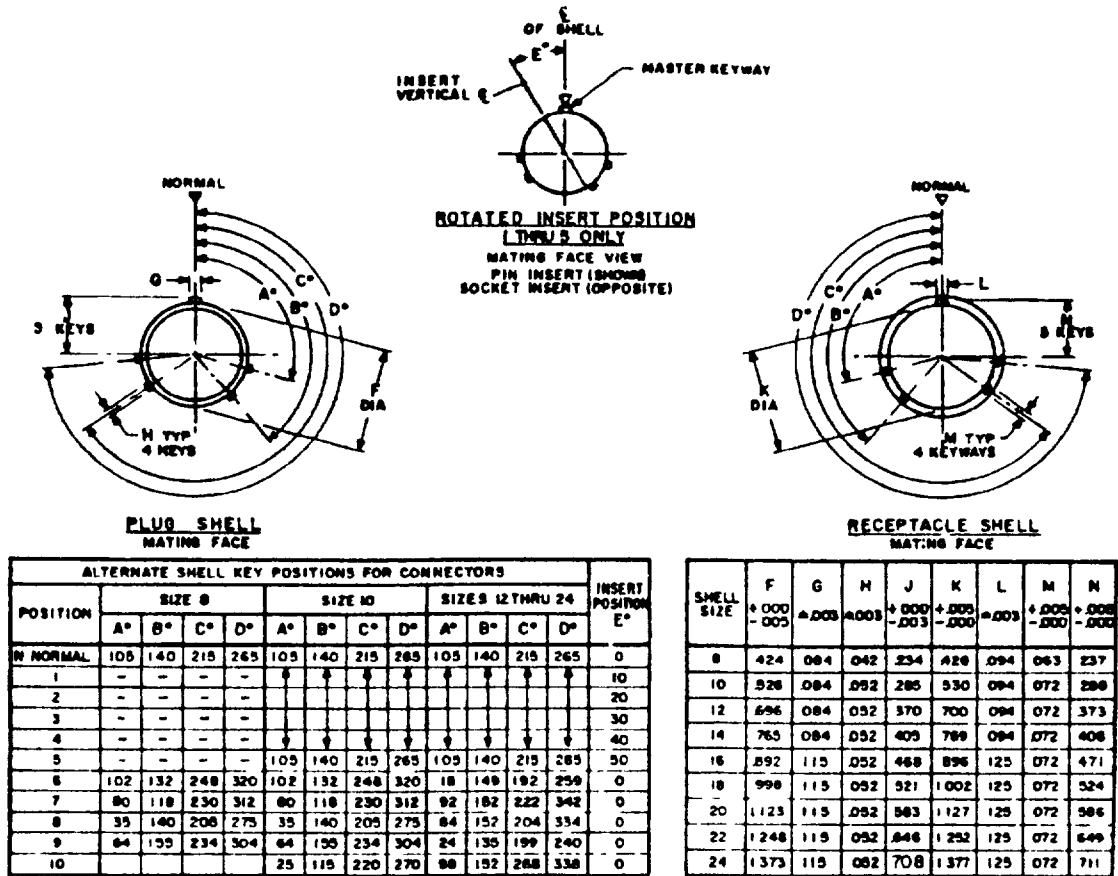
5.1 Dimensions Dimensions shall be in accordance with the applicable section of this standard and the following dimensional data

- (a) Dimensioning and tolerancing in accordance with ANSI Y14.5-1973.  
Dimensions are true position and in inches
- (b) Metric equivalents (to the nearest 0.1 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 socket insert, pin insert is opposite
- (d) The following tolerances apply to insert installed in shell
  - 1 Center of each hole in insert shall be located at true position within 0.14 dia.  $\text{Ⓢ} \text{ } 0.14 \text{ dia.}$
  - 2 Center of engaging end of each contact shall be located at true position within 0.24 dia.  $\text{Ⓢ} \text{ } 0.24 \text{ dia.}$
- (e) Unless otherwise indicated, dimensions are symmetrical about centerline

### 5.2 Main key or keyway polarization (see figure 1)

- (a) Each insert arrangement is shown in the "normal position" in the shell
- (b) For alternate polarizing positions, the connector insert is rotated in respect to the shell

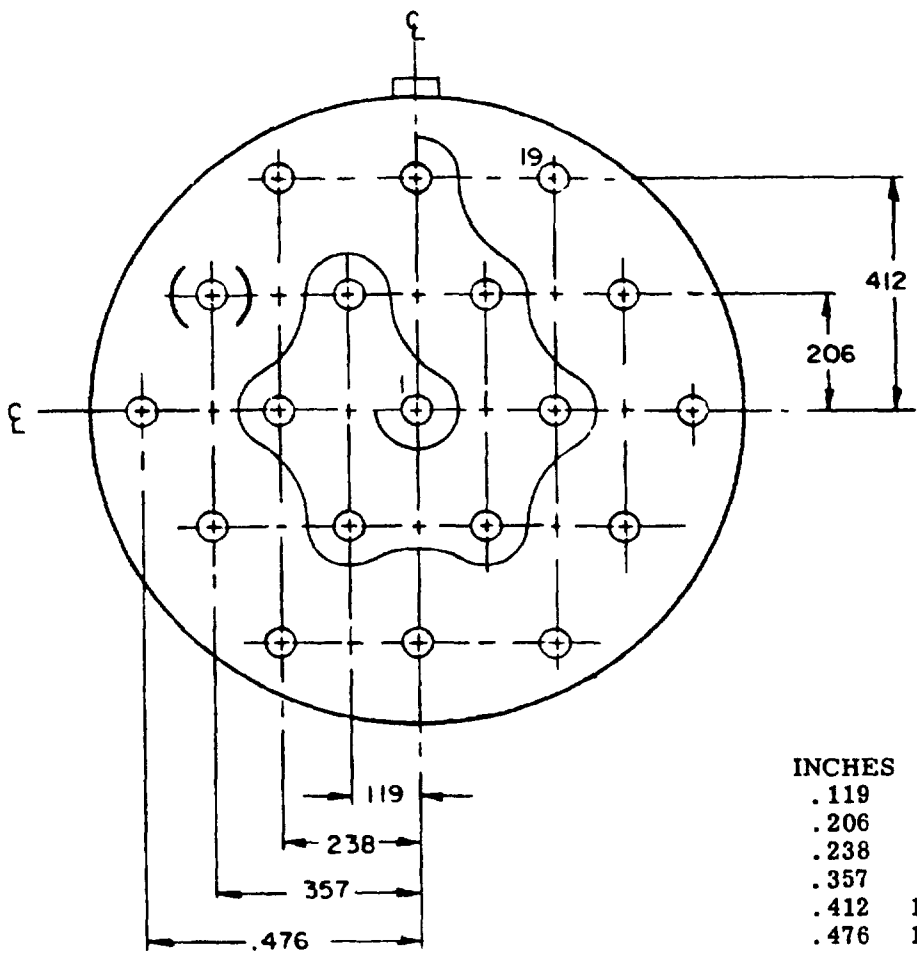
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### Main key/keyway polarization

INCHES	MM	INCHES	MM	INCHES	MM
.003	.08	.373	9.47	.700	17.78
.004	.10	.405	10.29	.708	17.98
.005	.13	.408	10.36	.711	18.06
.042	1.07	.424	10.77	.765	19.43
.052	1.32	.428	10.87	.769	19.53
.063	1.60	.468	11.89	.892	22.66
.072	1.83	.471	11.96	.896	22.76
.084	2.13	.521	13.23	.998	25.35
.094	2.39	.524	13.31	1.002	25.45
.115	2.92	.526	13.36	1.123	28.52
.125	3.18	.530	13.46	1.127	28.63
.234	5.94	.583	14.81	1.248	31.70
.237	6.02	.586	14.88	1.252	31.80
.285	7.24	.646	16.41	1.373	34.87
.288	7.32	.649	16.48	1.377	34.98
.370	9.40	.696	17.68		

FIGURE 1 Main key or keyway polarization



Shell size	Arrangement number	Number of contacts	Size contacts	Service rating	Contact location	Superseded document
24	19	19	12	I	All	---