

MIL-STD-1651  
NOTICE 2  
30 May 1979

# MILITARY STANDARD

INSERT ARRANGEMENTS FOR MIL-C-5015,  
MIL-C-22992 (CLASSES C, J, AND R),  
AND MIL-C-83723 (SERIES II)  
ELECTRICAL CONNECTORS

TO ALL HOLDERS OF MIL-STD-1651:

1. THE FOLLOWING PAGES OF MIL-STD-1651 HAVE BEEN REVISED AND SUPERSEDE THE PAGES LISTED:

<u>NEW PAGE</u>	<u>DATE</u>	<u>SUPERSEDED PAGE</u>	<u>DATE</u>
1	27 June 1975	(REPRINTED WITHOUT CHANGE)	27 June 1975
2		2	10 June 1976
3		3	27 June 1975

2. RETAIN THIS NOTICE AND INSERT BEFORE TABLE OF CONTENTS.

3. Holders of MIL-STD-1651 will verify that page changes indicated above have been entered. This notice page will be retained as a check sheet. This issuance, 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 - CR  
Navy - AS  
Air Force - 85

## Preparing activity:

Navy - AS

## Agent:

DLA - ES

## Review activities:

Army - AR  
Navy - EC  
Air Force - 11, 15, 17, 99  
DLA - ES

(Project 5935-3106)

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## 1. SCOPE

1.1 This standard covers insert arrangements for use with MIL-C-5015, MIL-C-22992 (classes C, J, and R), and MIL-C-83723 (series II) 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

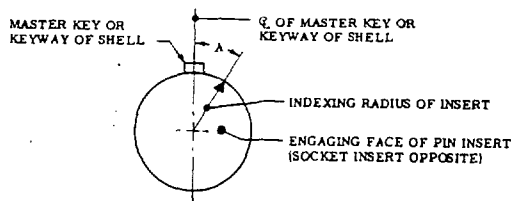
### MILITARY

- MIL-C-5015 - Connectors, Electric, "AN" Type.
- MIL-C-22992 - Connectors, Plugs and Receptacles, Electrical, Waterproof, Quick Disconnect, Heavy Duty Type, General Specification for.
- MIL-C-83723 - 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.)

## 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) The following tolerances apply to insert installed in shell:
  - 1. The center of each hole in insert for crimp contact connectors shall be located at true position within .014 dia.  $\oplus .014 \text{ dia.}$
  - 2. The center of engaging end of each contact shall be located in true position within .024 dia.  $\oplus .024 \text{ dia.}$
- (e) Unless otherwise indicated, dimensions are symmetrical about centerline.
  - ↑ indicates  $\phi$  of insert arrangement.
- (f) Each insert arrangement is shown in the "normal position" in the shell.

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5.2 Marking. Marking shall be in accordance with MIL-C-5015, MIL-C-22992, or MIL-C-83723, as applicable, and as shown in the applicable section of this military standard.

5.3 Contacts. Solder contacts shall be in accordance with MIL-C-5015, MIL-C-22992, or MIL-C-83723, as applicable. Crimp contacts shall be in accordance with table I. Contact sizes are designated by the symbols shown in table I.

TABLE I. Contact designation.

Crimp or solder contacts		Crimp contact part numbers	
Size	Symbol	MIL-C-5015 MS3400's Connectors MIL-C-39029 Contacts	MIL-C-5015 and MIL-C-83723 Series II MS3450's Connectors MIL-C-39029 Contacts
0		MIL-C-39029/44 MS90453-0-0	M39029/29-0-0
		MIL-C-39029/45 MS90454-0-0	M39029/30-0-0
4		MIL-C-39029/44 MS90453-4-4	M39029/29-4-4
		MIL-C-39029/45 MS90454-4-4	M39029/30-4-4
8		MIL-C-39029/44 MS90453-8-8	M39029/29-8-8
		MIL-C-39029/45 MS90454-8-8	M39029/30-8-8
12		MIL-C-39029/44 MS90453-12-12	M39029/29-12-12
		MIL-C-39029/45 MS90454-12-12	M39029/30-12-12
16		MIL-C-39029/44 MS90453-16-16	M39029/29-16-16
		MIL-C-39029/45 MS90454-16-16	M39029/30-16-16
16S		NA	M39029/30-16S16
8 (shielded)		MS14056 (MIL-C-5015 only)	
Video coax		MS33695 (MIL-C-5015 only)	

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5.4 International standardization agreements. Certain insert arrangements of this standard, identified by \*, #, and †, are the subject of the related international standardization agreements listed under "International Interest". When revision or cancellation of this standard is proposed which will effect or violate the international agreement concerned, the preparing activity will take appropriate reconciliation action through international standardization channels, including Departmental Standardization Offices, if required.

INTL INTEREST

\*ASCC 12/44  
#NEPR 28  
†NEPR 44

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Navy - AS

Agent:  
DLA - ES

(Project 5935-2026)