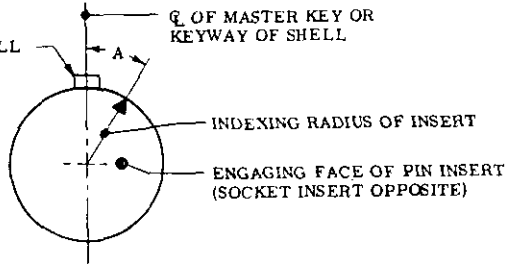


FED. SUP CLASS  
5935MASTER KEY OR  
KEYWAY OF SHELL

## APPLICABLE CONNECTORS (REF)

RECEPTACLES	PLUGS
MS3100	MS3101
MS3102	MS3106
MS3103	MS3107
	MS3108
	MS25183

MIL-C-22993 CONNECTORS ALSO USE  
THESE INSERT ARRANGEMENTS

## NOTES:

- DIMENSIONS IN INCHES. DIMENSIONING AND TOLERANCING IN ACCORDANCE WITH USASI Y14.5-1966 (ANSI).
- DIMENSIONS LOCATING CONTACTS AND INSERTS ARE TRUE POSITION. FOLLOWING TOLERANCES APPLY TO INSERT INSTALLED IN SHELL:
  - FOR CHIMP CONTACT CONNECTORS, CENTER OF EACH HOLE IN INSERT SHALL BE LOCATED AT TRUE POSITION WITHIN .014 DIA.  $\text{⊕} .014 \text{ DIA.}$
  - CENTER OF ENGAGING END OF EACH CONTACT SHALL BE LOCATED AT TRUE POSITION WITHIN .024 DIA.  $\text{⊕} .024 \text{ DIA.}$
- DIMENSIONS AND MARKINGS SHOWN ARE FOR ENGAGING FACE OF PIN INSERT (SOCKET INSERT OPPOSITE).
- UNLESS OTHERWISE INDICATED, DIMENSIONS ARE SYMMETRICAL ABOUT CENTERLINES.
- EACH INSERT ARRANGEMENT IS SHOWN IN ITS NORMAL POSITION IN THE SHELL.
- IN NORMAL POSITION, THE INDEXING RADIUS COINCIDES WITH Q OF THE MASTER KEY OR KEYWAY OF SHELL.
- IN ALTERNATE POSITIONS THE PIN INSERT IS ROTATED CLOCKWISE SO THAT ANGLE "A" BETWEEN THE INDEXING RADIUS AND THE Q OF THE MASTER KEY OR KEYWAY OF SHELL IS AS REQUIRED.
- IN ALTERNATE POSITIONS THE SOCKET INSERT IS ROTATED COUNTER-CLOCKWISE SO THAT ANGLE "A" BETWEEN THE INDEXING RADIUS AND THE Q OF THE MASTER KEY OR KEYWAY OF SHELL IS AS REQUIRED.
- 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 AFFECT OR VIOLATE THE INTERNATIONAL AGREEMENT CONCERNED, THE PREPARING ACTIVITY WILL TAKE APPROPRIATE RECONCILIATION ACTION THROUGH INTERNATIONAL STANDARDIZATION CHANNELS, INCLUDING DEPARTMENTAL STANDARDIZATION OFFICES, IF REQUIRED.
- INSERT ARRANGEMENTS SUBJECT TO INTERNATIONAL STANDARDIZATION AGREEMENTS ARE PREFERRED FOR USE.
- CONTACT SIZES ARE DESIGNATED BY THE FOLLOWING SYMBOLS:

SIZE	SYMBOL
0	$\text{⊕}$
4	$\text{⊕}$
8	$\text{⊕}$
12	$\text{⊕}$
16	●

**Ⓢ CANCELED  
AFTER**

**22 JUNE 79 USE MIL-STD-1651**

THIS IS A DESIGN STANDARD. NOT TO BE USED AS A PART NUMBER.  
FOR DESIGN FEATURE PURPOSES, THIS STANDARD TAKES PRECEDENCE OVER PROCUREMENT DOCUMENTS REFERENCED HEREIN.  
REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BD.

P.A. NAVY-AS Other Cust	INT'L INTEREST * ASCC 12/14	TITLE	MILITARY STANDARD
ARMY-EL USAF-80	# NEPR 28 † NEPR 44	INSERT ARRANGEMENTS, MIL-C-5015 ELECTRIC CONNECTOR, SIZE 20	MS33685
PROCUREMENT SPECIFICATION MIL-C-5015	SUPERSEDES	AND10430	SHEET 1 OF 10

DD FORM 672-1 (Coordinated)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

This military standard is approved by the Department of Defense and is mandatory for use by all Departments & Agencies of the Department of Defense. Selection for all new engineering and design applications and for repetitive use shall be made from this document.

Reviewers

ARMY - MI, MU  
NAVY - SH-EC  
AIR FORCE - 17

Users:

ARMY - ME, AT, AV  
NAVY - OS, MC, CG  
AIR FORCE

Review/user information is current as of the date of this document. For future coordination of changes to this document draft circulation should be based on the information in the current DODISS.

APPROVED 17 DEC 1958 REVISED (B) 7C June 1968 22 JUNE 1979