

NOTICE

THIS DOCUMENT HAS BEEN TAKEN DIRECTLY FROM U.S. MILITARY SPECIFICATION MS33700F, AMENDMENT 1, NOTICE 1, AND CONTAINS ONLY MINOR EDITORIAL AND FORMAT CHANGES REQUIRED TO BRING IT INTO CONFORMANCE WITH THE PUBLISHING REQUIREMENTS OF SAE TECHNICAL STANDARDS. THE INITIAL RELEASE OF THIS DOCUMENT IS INTENDED TO REPLACE MS33700F, AMENDMENT 1, NOTICE 1. ANY PART NUMBERS ESTABLISHED BY THE ORIGINAL SPECIFICATION REMAIN UNCHANGED.

THE ORIGINAL MILITARY SPECIFICATION WAS ADOPTED AS AN SAE STANDARD UNDER THE PROVISIONS OF THE SAE TECHNICAL STANDARDS BOARD (TSB) RULES AND REGULATIONS (TSB 001) PERTAINING TO ACCELERATED ADOPTION OF GOVERNMENT SPECIFICATIONS AND STANDARDS. TSB RULES PROVIDE FOR (A) THE PUBLICATION OF PORTIONS OF UNREVISED GOVERNMENT SPECIFICATIONS AND STANDARDS WITHOUT CONSENSUS VOTING AT THE SAE COMMITTEE LEVEL, AND (B) THE USE OF THE EXISTING GOVERNMENT SPECIFICATION OR STANDARD FORMAT.

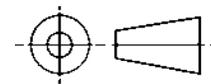
UNDER DEPARTMENT OF DEFENSE POLICIES AND PROCEDURES, ANY QUALIFICATION REQUIREMENTS AND ASSOCIATED QUALIFIED PRODUCTS LISTS ARE MANDATORY FOR DOD CONTRACTS. ANY REQUIREMENT RELATING TO QUALIFIED PRODUCTS LISTS (QPL'S) HAS NOT BEEN ADOPTED BY SAE AND IS NOT PART OF THIS SAE TECHNICAL DOCUMENT.

AS33700

SAE Technical Standards Board Rules provide that: "This report is published by SAE to advance the state of technical and engineering sciences. The use of this report is entirely voluntary, and its applicability and suitability for any particular use, including any patent infringement arising therefrom, is the sole responsibility of the user." SAE reviews each technical report at least every five years at which time it may be reaffirmed, revised, or cancelled. SAE invites your written comments and suggestions.

SAENORM.COM : Click to view the full PDF of as33700

THIRD ANGLE PROJECTION



ISSUED 2002-03

CUSTODIAN: SAE AE-8/AE-8C1

PROCUREMENT SPECIFICATION: MIL-C-81703



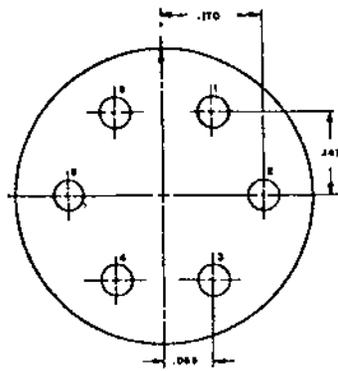
**AEROSPACE STANDARD**

INSERT ARRANGEMENTS, ELECTRIC CONNECTOR, SHELL SIZE 12

**AS33700**  
SHEET 1 OF 3

AS33700

THE ACTIVITY RESPONSIBLE FOR QUALIFICATION OF THESE CONNECTORS IS THE DEFENSE SUPPLY CENTER COLUMBUS, ATTN: DSCC-VQ, 3990 EAST BROAD STREET, COLUMBUS, OHIO 43213-1199.

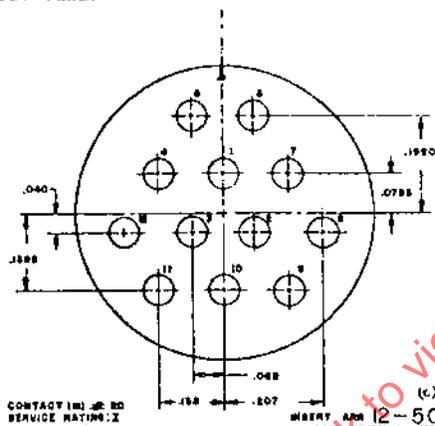


CONTACT: 12-50  
SERVICE RATING: II

INSERT ARR 12-6

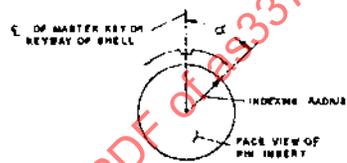
CONTACT:  
SERVICE RATING:

INSERT ARR



CONTACT: 12-50  
SERVICE RATING: X

INSERT ARR 12-50



INSERT POSITION FIGURE

INSERT ARR.	INSERT POSITIONS $\alpha$ DEGREES (C)					
	H	W	X	Y	B	C
12-50	0°	18°	60°	78°	180°	228°
12-6	0°	28°	46°	90°	180°	220°

- (1) TO BE WITHIN .008 INCHES OF THE REQUIRED POSITION.
- (2) THESE INSERT POSITIONS ARE NOT TO BE PROVIDED.
- (3) INSERT ARR. 12-50 SUPERSEDES AND IS INTERCHANGEABLE WITH INSERT ARR. 12.

DIMENSIONS AND MARKINGS SHOWN ARE FOR FRONT FACE OF PIN INSERT (SOCKET INSERT OPPOSITE). UNLESS OTHERWISE INDICATED, DIMENSIONS ARE SYMMETRICAL ABOUT CENTERLINE.

INDICATES "MASTER KEY OR KEYWAY OF SHELL."

INDICATING TERMINUS OF "INDEXING RADIUS OF INSERT" SHALL BE PERMANENTLY MARKED ON THE INSERT IN "N" POSITION THE INDEXING RADIUS COINCIDES WITH  $\phi$  OF THE "MASTER KEY OR KEYWAY OF SHELL," IN OTHER THAN "N" POSITION THE PIN INSERT IS ROTATED  $\alpha$  DEGREES CLOCKWISE RELATIVE TO  $\phi$  OF THE "MASTER KEY OR KEYWAY OF SHELL" AS INDICATED. IN OTHER THAN "N" POSITION THE SOCKET INSERT IS ROTATED  $\alpha$  DEGREES COUNTER-CLOCKWISE RELATIVE TO  $\phi$  OF THE "MASTER KEY OR KEYWAY OF SHELL."

DIMENSIONS IN INCHES. ANGLES IN DEGREES. TOLERANCES: DECIMALS  $\pm .005$ .

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.

REFERENCE DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BID.