

REV.  
A

FEDERAL SUPPLY CLASS  
5935

SAE AS33703

RATIONALE

REVISED TO PROVIDE LEGIBLE DRAWINGS

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CUSTODIAN: SAE AE-8/AE-8C1

PROCUREMENT SPECIFICATION: MIL-C-81703



**AEROSPACE STANDARD**

INSERT ARRANGEMENTS, ELECTRIC CONNECTOR, SHELL SIZE 37

**SAE AS33703**  
SHEET 1 OF 4

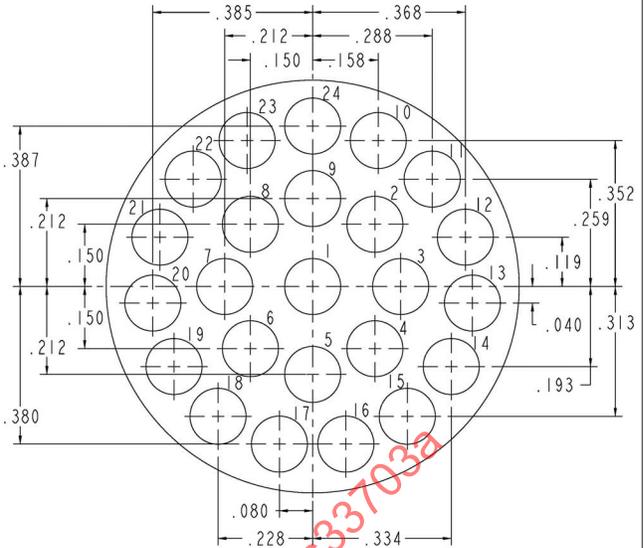
**REV. A**

ISSUED 2002-02 REVISED 2010-06

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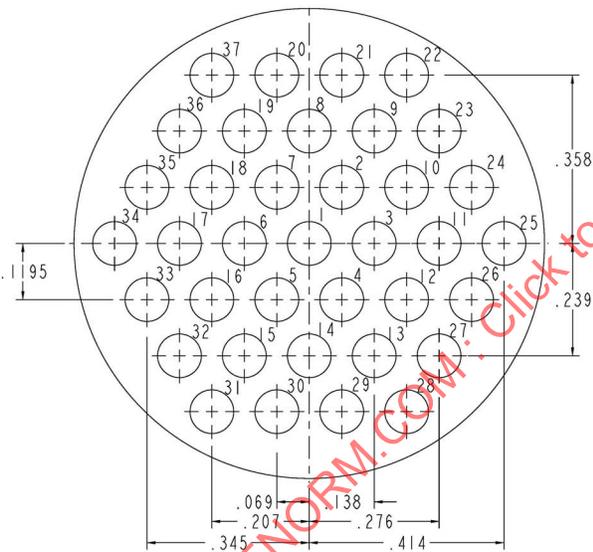
CONTACTS:  
SERVICE RATING: I

INSERT ARR.



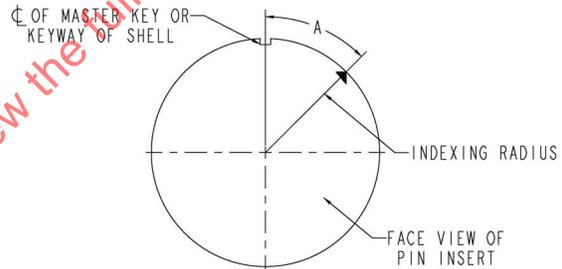
CONTACT (24) #16  
SERVICE RATING: I

INSERT ARR. 37-2



CONTACT (37) #20  
SERVICE RATING: I

(c)  
INSERT ARR. 37-50

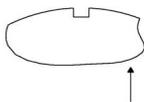


INSERT POSITION FIGURE

INSERT ARR	INSERT POSITION A DEGREES					
	N	W	X	Y	B	C
37-50 (C)	0°	25°	50°	75°	150°	225°
37-2	0°	25°	145°	227.5°	(b)	(b)

- (a) ↑ TO BE WITHIN .006 INCHES OF THE REQUIRED POSITION
- (b) THESE INSERT POSITIONS ARE NOT TO BE PROVIDED
- (c) INSERT ARR 37-60 SUPERCEDES AND IS INTERCHANGEABLE WITH INSERT ARR 37

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



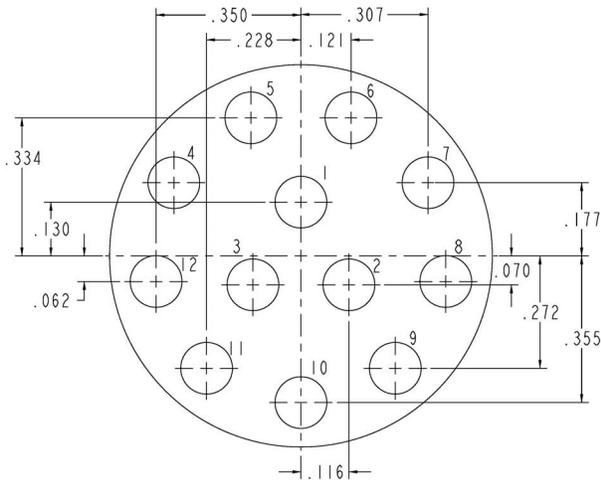
INDICATES "MASTER KEY OR KEYWAY OF SHELL."

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 KEYWAY OF SHELL."

IN OTHER THAN "N" POSITION THE PIN INSERT IS ROTATED A 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 A DEGREES COUNTER-CLOCKWISE RELATIVE TO  $\phi$  OF THE "MASTER KEY OR KEYWAY OF SHELL".

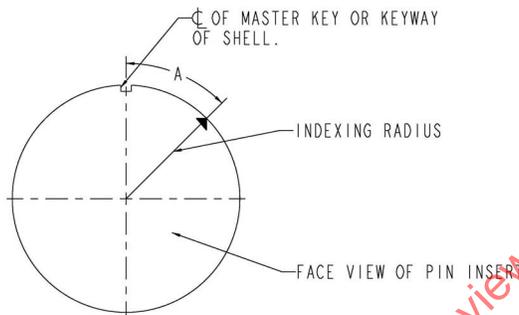


CONTACT (12) #12  
SERVICE RATING: I

INSERT ARR. 37-3

CONTACTS:  
SERVICE RATING:

INSERT ARR.



INSERT POSITION FIGURE

INSERT ARR	INSERT POSITION A DEGREES					
	N	W	X	Y	B	C
37-3	0°	20°	70°	(b)	(b)	(b)

(a) ↑ TO BE WITHIN .005 INCHES OF THE REQUIRED POSITION

(b) THESE INSERT POSITIONS ARE NOT TO BE PROVIDED

NOTES:

RECEPTACLES (REF)      PLUGS (REF)

MS3130	MS3137
MS3132	MS3138
MS3134	MS3147
MS3139	MS3148
MS3140	MS3446
MS3143	MS3467
MS3144	MS3468
MS3145	MS3445
MS3149	
MS3424	
MS3463	
MS3464	
MS3466	
MS3469	