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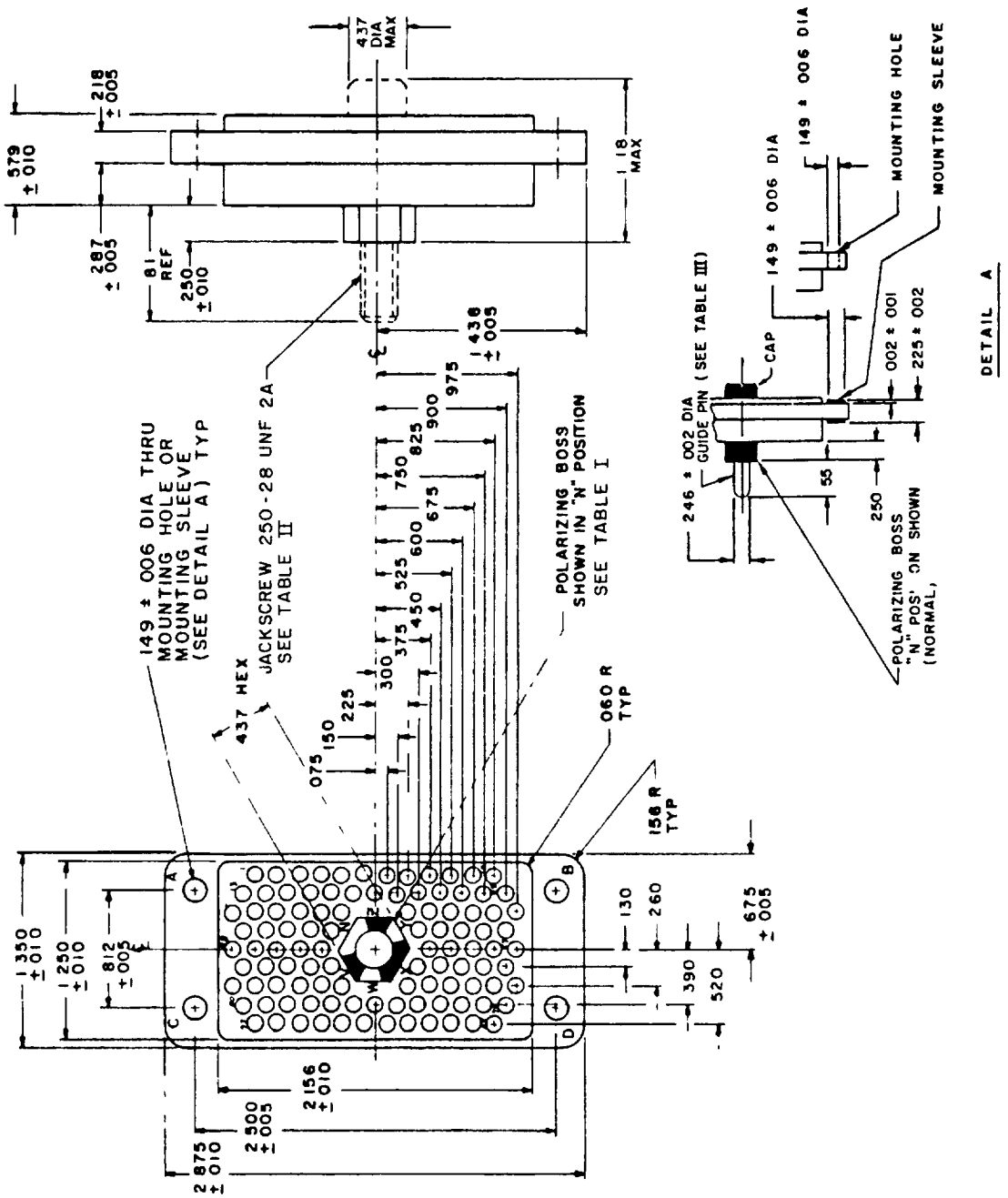

Design standard for use with MIL-C-28748/9

© Entire standard revised

P A Navy - EC Other Cus AF - 85 Army - EL	International Interest	TITLE INSERT (INSULATOR), RECTANGULAR CONNECTOR, POLARIZED CENTER SCREW-LOCK, ELECTRICAL, 104 (SIZE 16 CRIMP REMOVABLE) PIN CONTACTS	MILITARY STANDARD MS 17778
Procurement Specification MIL-C-28748		SUPERSEDES	SHEET 1 OF 3

DD FORM 672 (Coordinated) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

5935-2004-3

APPROVED 1 Feb 1962 REVISED (A) 20 Dec 1965 (B) 20 May 1970 (C) 8 July 1976

User activities: Army ME, AV, WC; Navy MC; Air Force

Reviewer activities: Army MI, MU, AT; Navy AS, SH, OS; Air Force 11, 99; DSA - ES

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TYPE
SEE TABLE I

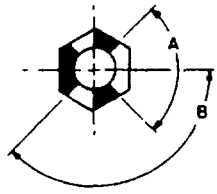

TABLE I		
TYPE	A	B
1	90°	135°
2	85°	137°30'

TABLE II		
MS PART NUMBER	POLARIZATION *	JACKSCREW
MS 17778-1N	N (TYPE 1)	SUPPLIED WITH CONNECTOR
MS 17778-1V	V (TYPE 1)	
MS 17778-1W	W (TYPE 1)	
MS 17778-1X	X (TYPE 2)	
MS 17778-1Y	Y (TYPE 2)	
MS 17778-1Z	Z (TYPE 2)	
MS 17778 2N	N (TYPE 1)	NOT SUPPLIED WITH CONNECTOR POLARIZING BOSS THREADED INTERNALLY 250-28 UNF-2B
MS 17778-2V	V (TYPE 1)	
MS 17778-2W	W (TYPE 1)	
MS 17778-2X	X (TYPE 2)	
MS 17778-2Y	Y (TYPE 2)	
MS 17778-2Z	Z (TYPE 2)	

TABLE III		
MS PART NUMBER	POLARIZATION *	GUIDE PIN
MS 17778-3N	N (TYPE 1)	SUPPLIED WITH CONNECTOR
MS 17778-3V	V (TYPE 1)	
MS 17778-3W	W (TYPE 1)	
MS 17778-3X	X (TYPE 2)	
MS 17778-3Y	Y (TYPE 2)	
MS 17778-3Z	Z (TYPE 2)	
MS 17778-4N	N (TYPE 1)	NOT SUPPLIED WITH CONNECTOR POLARIZING BOSS WITH 254 ± 002 I D TO ACCEPT GUIDE PIN
MS 17778-4V	V (TYPE 1)	
MS 17778-4W	W (TYPE 1)	
MS 17778-4X	X (TYPE 2)	
MS 17778-4Y	Y (TYPE 2)	
MS 17778-4Z	Z (TYPE 2)	

* LARGE OPENING IN POLARIZATION BOSS MUST BE ADJACENT TO POLARIZATION LETTER ON CONNECTOR BODY.

APPROVED 1 Feb 1962 REVISED © For changes see sheets 1, 2 and 3

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P A Navy -EC Other Cust AF - 85 Army - EL	International interest	TITLE INSERT (INSULATOR), RECTANGULAR CONNECTOR, POLARIZED CENTER SCREW-LOCK, ELECTRICAL, 104 (SIZE 16 CRIMP REMOVABLE) PIN CONTACTS	MILITARY STANDARD MS 17778
Procurement Specification MIL-C-28748		SUPERSEDES	SHEET 2 OF 3

DD FORM 1 SEP 63 672 (Coordinated) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

5935-2004-3

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INCHES	MM	INCHES	MM
.001	03	450	11 43
002	05	520	13 21
005	.13	525	13 34
006	15	550	13 97
010	25	579	14 71
060	1.52	600	15 24
.075	1 91	675	17 15
130	3 30	.750	19 05
.149	3 78	810	20 57
150	3 81	812	20 63
.156	3.96	825	20 96
218	5 54	900	22 86
225	5 72	.975	24 77
.246	6.25	1 180	29 97
250	6 35	1 250	31 75
260	6 60	1 350	34 29
287	7 29	1 438	36 53
300	7 62	2.156	54 76
.375	9 53	2.500	63 50
390	9 91	2 875	73 03
437	11 10		

NOTES:

1. Dimensions are in inches.
2. Unless otherwise specified, tolerance is ±.015 (.38 mm).
3. Metric equivalents (to the nearest .01 mm) are given for general information only and are based upon 1 inch = 25.4 mm.
4. Tolerance between any two adjacent contact centers shall be ±.004 (.10 mm). Tolerance between any two contact centers, other than adjacent contacts, shall be ±.006 (.15 mm).
5. Contact hole details shall be in accordance with MIL-C-28748.
6. For mating connector see MS17779 (socket body).
7. Dimensions symmetrical about centerlines.
8. For design feature purposes, this standard takes precedence over procurement documents referenced herein.
9. Reference documents shall be of the issue in effect on date of invitation for bid
10. Insert material shall be in accordance with MIL-C-28748
11. Flatness, squareness and parallelism shall be within dimensional tolerances.
12. Center polarizing hardware may be rotated by removing retaining ring and spacer or removing cap (left hand thread) at rear of insert
13. Maximum insertion and withdrawal force (connector assembly) shall be 100 pounds.
14. Maximum torque required at jackscrew to properly engage or disengage connector shall be 7 inch pounds.
15. Jackscrew wrench size 5/32 hex

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