



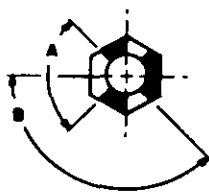
FED. SUP CLASS  
5935TYPE  
SEE TABLE I

TABLE I		
TYPE	A	B
1	90°	135°
2	95°	137°30'

TABLE II

MS PART NUMBER	POLARIZATION *	JACKSCREW
MS 18164-1N	N (TYPE 1)	SUPPLIED WITH CONNECTOR
MS 18164-1V	V (TYPE 1)	
MS 18164-1W	W (TYPE 1)	
MS 18164-1X	X (TYPE 2)	
MS 18164-1Y	Y (TYPE 2)	
MS 18164-1Z	Z (TYPE 2)	
MS 18164-2N	N (TYPE 1)	NOT SUPPLIED WITH CONNECTOR POLARIZING BOSS THREADED INTERNALLY .250-28 UNF-2B
MS 18164-2V	V (TYPE 1)	
MS 18164-2W	W (TYPE 1)	
MS 18164-2X	X (TYPE 2)	
MS 18164-2Y	Y (TYPE 2)	
MS 18164-2Z	Z (TYPE 2)	

TABLE III

MS PART NUMBER	POLARIZATION *	GUIDE PIN
MS 18164-3N	N (TYPE 1)	SUPPLIED WITH CONNECTOR
MS 18164-3V	V (TYPE 1)	
MS 18164-3W	W (TYPE 1)	
MS 18164-3X	X (TYPE 2)	
MS 18164-3Y	Y (TYPE 2)	
MS 18164-3Z	Z (TYPE 2)	
MS 18164-4N	N (TYPE 1)	NOT SUPPLIED WITH CONNECTOR POLARIZING BOSS WITH .254 ± .002 I.D. TO ACCEPT GUIDE PIN
MS 18164-4V	V (TYPE 1)	
MS 18164-4W	W (TYPE 1)	
MS 18164-4X	X (TYPE 2)	
MS 18164-4Y	Y (TYPE 2)	
MS 18164-4Z	Z (TYPE 2)	

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

P.A. Navy - EC

International  
interest:

TITLE INSERT (INSULATOR), RECTANGULAR  
CONNECTOR, POLARIZED CENTER SCREW-  
LOCK, ELECTRICAL, 80 (SIZE 16 CRIMP  
REMOVABLE) SOCKET CONTACTS

MILITARY STANDARD

Other Cust:

AF - 85

Army - EL

Procurement Specification

MIL-C-28748

SUPERSEDES:

MS 18164

SHEET 2 OF 3

DD FORM 672  
1 SEP 63

(Coordinated) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

5935-2004-14

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

Reviewer activities: Army, MI, MU, AT  
Navy, AS, SH, OS  
Air Force, 11, 80  
OSA - ES

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

APPROVED 20 Dec 1965 REVISED (B) For changes see sheets 1, 2 and 3

FED. SUP CLASS  
5935

Reviewer activities: Army MI, MU, AT  
Navy AS, SH, OS  
Air Force II, 80  
DSA - ES

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

INCHES	MM	INCHES	MM
.001	.03	.390	9.91
.002	.05	.437	11.10
.005	.13	.450	11.43
.006	.15	.520	13.21
.010	.25	.525	13.34
.060	1.52	.550	13.97
.075	1.91	.600	15.24
.130	3.30	.675	17.15
.149	3.78	.750	19.05
.150	3.81	.810	20.57
.156	3.96	.812	20.63
.218	5.54	.923	23.44
.225	5.72	1.210	30.73
.246	6.25	1.250	31.75
.250	6.35	1.350	34.29
.260	6.60	1.700	43.18
.287	7.29	2.045	51.94
.300	7.62	2.420	61.47
.375	9.53		

## NOTES:

1. Dimensions are in inches.
2. Unless otherwise specified, tolerance is  $\pm .015$  (.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  $\pm .004$  (.10 mm). Tolerance between any two contact centers, other than adjacent contacts, shall be  $\pm .006$  (.15 mm).
5. Contact hole details shall be in accordance with MIL-C-28748.
6. For mating connector see MS18163 (pin 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 75 pounds.
14. Maximum torque required at jackscrew to properly engage or disengage connector shall be 6 inch pounds.
15. Jackscrew wrench size 5/32 hex.

P.A Navy - EC	International INFORM:	TITLE INSERT (INSULATOR), RECTANGULAR CONNECTOR, POLARIZED CENTER SCREW- LOCK, ELECTRICAL, 80 (SIZE 16 CRIMP REMOVABLE) SOCKET CONTACTS	MILITARY STANDARD
Other Cus: AF - 85 Army - EL			<b>MS 18164</b>
Procurement Specification MIL-C-28748	SUPERSEDES:		SHEET 3 OF 3

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

5935-2004-14

APPROVED 20 Dec 1965 REVISED (B) For changes see sheets 1, 2 and 3