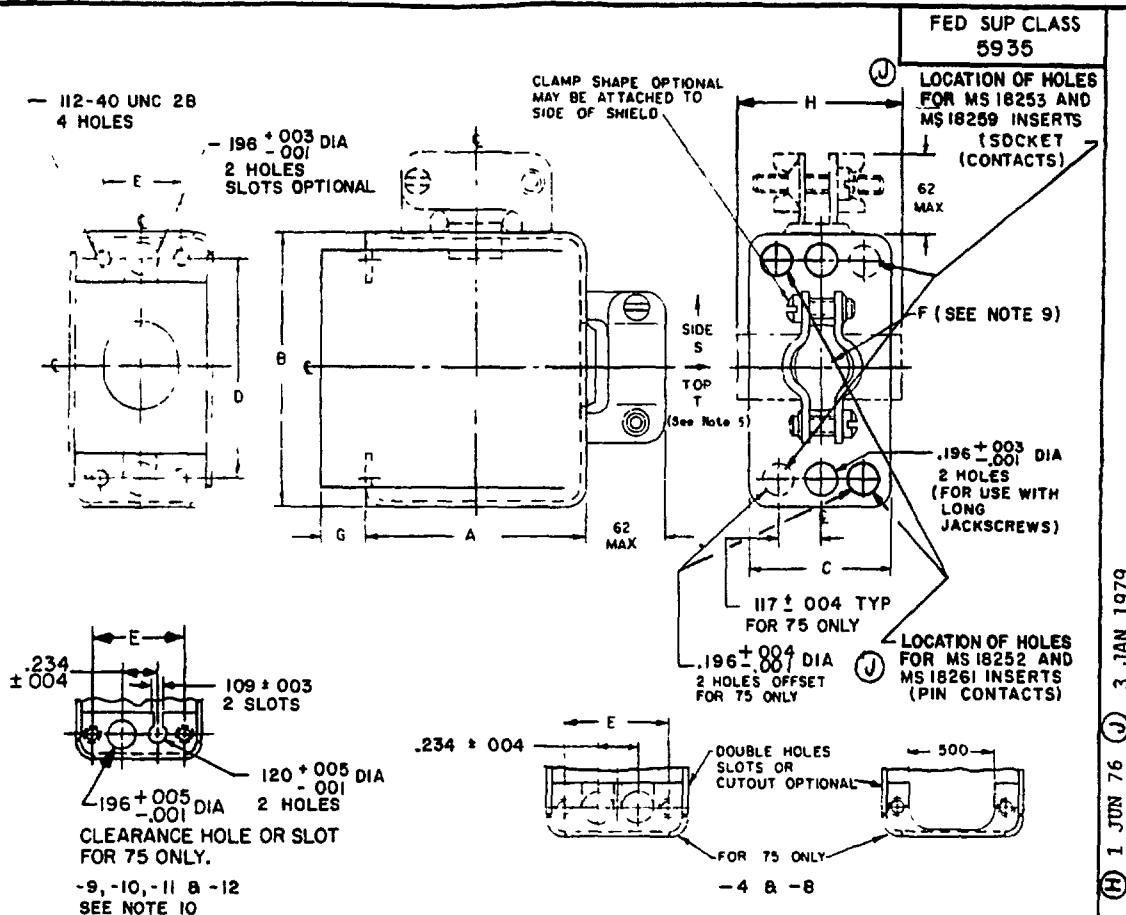


User activities: Army ME, AM, WC
Navy MC, OS, SH
Air Force

Reviewer activities: Army MI, AT
Navy AS
Air Force 11, 99
DSA-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.



DETAIL - A-

Design standard for use with MIL-C-28748 connectors.

MS PART NO	CONNECTOR SIZE (NO OF CONTACTS)	"A" MIN MAX	"B" $\pm .016$	"C" $\pm .016$	"D" $\pm .005$	"E" $\pm .005$	"F" MIN CABLE OPENING SQ INCH	G $= .047$
MS24133-T1 MS24133-S1	34	1 22 1 35	2 000	828	1 688	468	34	265
MS24133-T2 MS24133-S2	42	1 22 1 35	2 312	828	2 000	468	34	093
MS24133-T3 MS24133-S3	50	1 22 1 35	2 594	828	2 282	468	34	093
MS24133-T4 MS24133-S4	75	1 22 1 35	2 594	1 188	2 282	766	55	093

The following part numbers are the same as those listed above except the two .196 dia thru holes for mounting the insert are threaded and the other two .196 holes are omitted. These parts are not recommended for new design. Parts covered by previous issues of this standard but not included in this issue should be procured commercially.

(J) denotes changes

P A NAVY - EC Other Cust AF-85 ARMY - CR	International interest	TITLE SHIELD, ELECTRICAL CONNECTOR FOR 34, 42, 50 AND 75 CONTACT RACK AND PANEL CONNECTOR	MILITARY STANDARD MS 24133
Procurement Specification MIL-C-28748		SUPERSEDES:	SHEET 1 OF 2

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

5935-3091-2

APPROVED 12 AUG 1954 REVISED (G) 11 APR 1974 (H) 1 JUN 76 (J) 3 JAN 1979

Users activities: Army ME, AM, WC
Navy MC, OS, SH
Air Force

Reviewer activities: Army MJ, AT
Navy AS
Air Force II, 99
DSA-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.

FED SUP CLASS
5935

MS part number	Connector size (no. of contacts)	Thread size
MS24133-T5 MS24133-S5	34	.112-40 UNC-2B
MS24133-T6 MS24133-S6	42	112-40 UNC-2B
MS24133-T7 MS24133-S7	50	112-40 UNC-2B
MS24133-T8 MS24133-S8	75	.112-40 UNC-2B

INCHES	MM	INCHES	MM
.001	.03	.468	11.89
.003	.08	.500	12.70
.004	.10	.55	14.0
.005	.13	.62	15.7
.016	.41	.766	19.46
.047	1.19	.828	21.03
.093	2.36	1.13	28.7
.109	2.77	1.188	30.18
.112	2.84	1.22	31.0
.117	2.97	1.35	31.3
.120	3.05	1.37	34.8
.196	4.98	1.688	42.88
.234	5.94	2.000	50.80
.26	6.6	2.282	57.96
.265	6.73	2.312	58.72
.34	8.6	2.594	65.89
.46	11.7		

MS PART NO	CONNECTOR SIZE (NO OF CONTACTS)	"A" MIN MAX	"B" ± .016	"C" ± .016	"D" ± .005	"E" ± .005	"F" MIN CABLE OPENING SQ INCH	"G" ± .047	"H" MAX
MS24133-T9 MS24133-S9	34	1.22 1.35	2.000	.828	1.688	.468	34	.265	1.13
MS24133-T10 MS24133-S10	42	1.22 1.35	2.312	.828	2.000	.468	34	.093	1.13
MS24133-T11 MS24133-S11	50	1.22 1.35	2.594	.828	2.282	.468	34	.093	1.13
MS24133-T12 MS24133-S12	75	1.22 1.35	2.594	1.188	2.282	.766	55	.093	1.37

NOTES:

1. Dimensions are in inches.
2. Unless otherwise specified, tolerance is $\pm .016$ (.41 mm).
3. Metric equivalents are given for general information only and are based upon 1.00 inch = 25.4 mm.
4. For shield with top cable opening suffix part No. with 'T'. For shield with side cable opening suffix part No. with 'S'.
5. Material: Aluminum alloy, per specification QQ-A-250/8, temper H32 .040 (1.02 mm) thick.
6. Finish: Anodize per specification MIL-A-8625, type I or type II.
7. Referenced documents shall be of the issue in effect on date of invitation for bid.
8. For design feature purposes, this standard takes precedence over procurement documents referenced herein.
9. Edges of cable entry hole to be rounded to prevent insulation chafing.
10. T9, S9, T10, S10, T11, S11, T12 and S12 are for use with one-piece jackscrews and are not used with shells.

P A NAVY - EC	International Interest	TITLE SHIELD, ELECTRICAL CONNECTOR FOR 34, 42, 50 AND 75 CONTACT RACK AND PANEL CONNECTOR.	MILITARY STANDARD
Other Cust AF 85 ARMY - CR			MS 24133
Procurement Specification MIL-C-28748	SUPERSEDES		PAGE 2 OF 2

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

5935-3091-2

APPROVED 12 AUG 1956 REVISED FOR CHANGES SEE SHEET 1