FED. SUP CLASS
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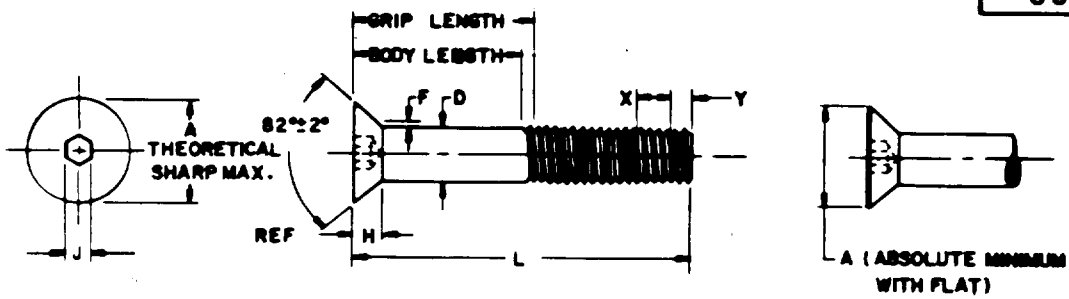

TABLE I

NOMINAL SIZE		.112 (#4)	.138 (#6)	.164 (#8)	.190 (#10)			.250 (1/4)			.3125 (5/16)		
THREADS PER INCH, UNC-3A		40	32	32	24			20			18		
D BODY DIAMETER	MAX	.1120	.1380	.1640	.1900			.2500			.3125		
	MIN	.1075	.1329	.1585	.1840			.2435			.3053		
A HEAD DIAMETER THEO. SHARP	MAX	.255	.307	.359	.411			.531			.656		
ABS.	MIN	.218	.263	.311	.359			.480			.600		
H HEAD HEIGHT	REF	.083	.097	.112	.127			.161			.198		
J SOCKET SIZE	NOM	.062	.078	.094	.125			.156			.188		
F SEE NOTE 10		.012	.015	.015	.015			.015			.015		
TENSILE STRENGTH, LBS-MIN		900	1,350	2,085	2,610			4,750			7,800		
L LENGTH	TOLERANCE SIZE .112 THRU .3125	DASH NO. CAD	DASH NO. CAD	DASH NO. CAD	DASH NO. CAD	GRIP LENGTH MAX	BODY LENGTH MIN	DASH NO. CAD	GRIP LENGTH MAX	BODY LENGTH MIN	DASH NO. CAD	GRIP LENGTH MAX	GRIP LENGTH MIN
.250		1	7		19			27			37		
.375		2	8	13	20			28			38		
.500	+.000	3	9	14	21			29			39		
.625	-.030	4	10	15	22			30			40		
.750		5	11	16	23			31			41		
1.000				17	24			32			42		
1.250					25	.62	.42	33			43		
1.500								34	.75	.50	44		
1.750	+.000							35	.75	.50	45	.88	.60
2.000	-.040										46	.88	.60
2.250											47	1.38	1.10
2.500													

TABLE I (Continued)

NOMINAL SIZE		.375 (3/8)			.4375 (7/16)			.500 (1/2)			.625 (5/8)	.750 (3/4)
THREADS PER INCH, UNC-3A		16			14			13			11	10
D BODY DIAMETER	MAX	.3750			.4375			.5000			.6250	.7500
	MIN	.3678			.4294			.4919			.6163	.7406
A HEAD DIAMETER THEO. SHARP	MAX	.781			.844			.938			1.188	1.438
ABS.	MIN	.720			.781			.872			1.112	1.355
H HEAD HEIGHT	REF	.234			.234			.251			.324	.396
J SOCKET SIZE	NOM	.219			.250			.312			.375	.500
F SEE NOTE 10		.015			.015			.015			.015	.015
TENSILE STRENGTH LBS-MIN		11,600			15,900			21,200			33,800	50,000
L LENGTH	TOLERANCE SIZE .375	TOLERANCE SIZE .4375 THRU .750	DASH NO. CAD	GRIP LENGTH MAX	BODY LENGTH MIN	DASH NO. CAD	GRIP LENGTH MAX	BODY LENGTH MIN	DASH NO. CAD	GRIP LENGTH MAX	BODY LENGTH MIN	DASH NO. CAD	DASH NO. CAD
.500			49										
.625	+.000	+.000	50										
.750	-.030	-.030	51			62*			73				
1.000			52			63*			74				
1.250			53			64*			75			84	93
1.500			54			65*			76			85	94
1.750	+.000	+.000	55			66*			77			86	95
2.000	-.040	-.060	56			67*			78			87	96
2.250			57	1.00	.69	68*			79			88	97
2.500			58	1.00	.69	69*	1.12	.77	80	1.00	.62	89	98
2.750	+.000	+.000	59	1.50	1.19	70*	1.12	.77	81	1.00	.62	90	99
3.000	-.060	-.080				71*	1.62	1.27	82	1.00	.62	91	100

* INACTIVE FOR NEW DESIGN AFTER 29 JUL 1975

(C) ENTIRE STANDARD REVISED

REVIEWER: AT, AV, MI, LEEN: MR, MU; PA, WV, OS

APPROVED 6 APR 1960 REVISED (A) 20 DEC 1963 (B) 29 JUL 1975 (C) 28 OCT 1976

This 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 when applicable.

P.A. WC
Other Coast SH
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TITLE
SCREW, CAP-SOCKET HEAD, FLAT COUNTERSUNK, 82° ALLOY STEEL, UNC-3A

MILITARY STANDARD
MS24667

PROCUREMENT SPECIFICATION
FF-S-86

SUPERSEDES: MS24669

SHEET 1 OF 2

DD FORM 672-1 (Coordinated)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

5305-1335

FED. SUP CLASS
5305

NOTES:

1. MATERIAL: Alloy Steel, in accordance with Federal Standard, No. 66 (Minimum ultimate tensile strength 160,000 PSI).

2. HARDNESS: Rockwell C36-45.

3. PROTECTIVE COATING: Cadmium plated in accordance with QQ-P-416, Type II, Class 3. Zinc coating in accordance with QQ-Z-325, Type II, Class 3.

4. THREADS: The threads shall be in accordance with MIL-S-7742.

5. MINIMUM THREAD LENGTH: Screws above heavy line shall have complete (full form) threads extending within two threads of the intersection of the conical portion of the head with the basic screw diameter as measured with a thread ring gage.

6. DIMENSIONS: All dimensions are in inches unless otherwise specified.

7. PART NUMBER: The MS part number consists of the MS number, plus the dash number. For screws with optional zinc coating add letter "Z" after the dash number. For screws with self-locking element add the letter "L" after the dash number.

   Example:
   MS24667 - 1 Cadmium Plated
   MS24667 - 1L Cadmium Plated, Self-Locking
   MS24667 - 1Z Zinc Coated
   MS24667 - 1ZL Zinc Coated, Self-Locking

8. Referenced documents shall be of the issue in effect on date of invitations for bid.

9. For design feature purposes, this standard takes precedence over procurement documents referenced herein.

10. Fillet Extension above D, max.

11. SELF-LOCKING ELEMENT: The self-locking element shall be a patch type or longitudinal strip in accordance with MIL-F-18240. For "X" and "Y" dimensions and design and usage limitations, see MS15981.

REVIEWER: AF, AV, MI, USER: MS, MU, PA, WV, OS

APPROVED 6 APR 1960 REVISED © FOR CHANGES SEE SHEETS 1 AND 2

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 when applicable.

P.A. WC / Other Cost SH 99	TITLE: SCREW, CAP-SOCKET HEAD, FLAT COUNTERSUNK, 82° ALLOYSTEEL, UNC-3A	MILITARY STANDARD MS24667
PROCUREMENT SPECIFICATION: FF-S-86	SUPERSEDES: MS24669	SHEET 2 OF 2

DD FORM 672-1 (Coordinated) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE. 5305-1335