

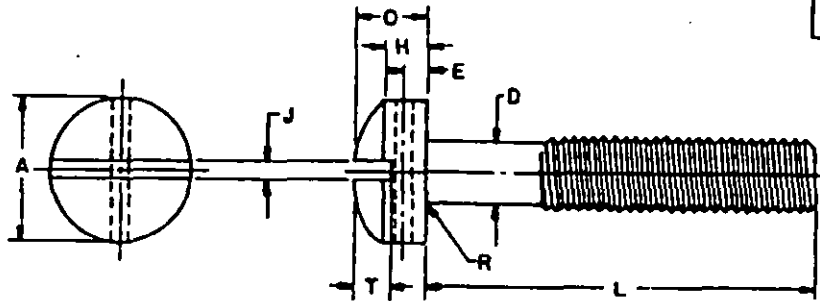
FED. SUP CLASS
5305

TABLE I

NOMINAL SIZE	(#2)	(#4)	(#6)	(#8)	(#10)	(1/4)	(5/16)	(3/8)
THREADS PER INCH, UNC-2A	56	40	32	32	24	20	18	16
D BODY DIAMETER								
MAX	.0860	.1120	.1380	.1640	.1900	.2500	.3125	.3750
MIN	.0717	.0925	.1141	.1399	.1586	.2127	.2712	.3287
A HEAD DIAMETER								
MAX	.140	.183	.226	.270	.313	.414	.518	.622
MIN	.124	.166	.208	.250	.292	.389	.490	.590
H HEAD SIDE HEIGHT								
MAX	.062	.079	.096	.113	.130	.170	.211	.253
MIN	.055	.072	.089	.106	.123	.161	.201	.242
O TOTAL HEAD HEIGHT								
MAX	.083	.107	.132	.156	.180	.237	.295	.355
MIN	.070	.094	.118	.141	.165	.219	.276	.333
J SLOT WIDTH								
MAX	.031	.039	.048	.054	.060	.075	.084	.094
MIN	.023	.031	.039	.045	.050	.064	.072	.081
T SLOT DEPTH								
MAX	.030	.038	.045	.065	.075	.102	.130	.154
MIN	.022	.030	.035	.054	.064	.087	.110	.134
E DRILL LOCATION								
NOM	.026	.035	.043	.043	.043	.062	.078	.094
DRILLED HOLE SIZE								
NOM	.031	.037	.046	.046	.046	.062	.070	.070
R RADIUS								
MAX	.013	.017	.021	.025	.029	.038	.047	.056
TENSILE STRENGTH, LB-MIN								
	210	340	520	800	1000	1610	2950	4420
L LENGTH	TOLERANCE	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.
.125		1	11	24	39			
.188		2	12	25	40			
.250		3	13	26	41	58		
.312		4	14	27	42	59		
						60	76	
.375		5	15	28	43	61	77	92
.438	+0	6	16	29	44	62	78	93
.500	-.031	7	17	30	45	63	79	94
.625		8	18	31	46	64	80	95
								107
.750		9	19	32	47	65	81	96
.875		10	20	33	48	66	82	97
1.000			21	34	49	67	83	98
1.250			22	35	50	68	84	99
								109
1.500			23	36	51	69	85	100
1.750	+0			37	52	70	86	101
2.000	-.062			38	53	71	87	102
2.250					54	72	88	103
								113
2.500					55	73	89	104
2.750	+0				56	74	90	105
3.000	-.094				57	75	91	106

(C) ENTIRE STANDARD REVISED

P.A. VC	TITLE	MILITARY STANDARD
Other Case 82	SCREW, MACHINE-DRILLED FILLISTER HEAD, SLOTTED, BRASS, BLACK CHEMICAL FINISH, UNC-2A	MS35273
PROCUREMENT SPECIFICATION FF-S-92	SUPERSEDES: MS35271, MS35272, MS35273, MS35274 AND IN PART MS35275, MS35276, MS35277, AND MS35278.	SHEET 1 OF 4

APPROVED 8 FEB 1964 REVISED (A) 18 JUN 1962 (B) 29 JUL 1968 (C) 14 JUN 1979

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

REVIEW: EL, ME, EA, IR, AN, ME, AT
USCIB: SM, CL, ML, VC, PA, ST, MC

FED. SUP CLASS
5305

NOTES:

1. **MATERIAL:** Brass, in accordance with QQ-B-626 or QQ-W-321 having minimum ultimate tensile strength of 57,000 PSI.
2. **PROTECTIVE COATING:** Black Chemical Finish in accordance with MIL-F-493.
3. **THREADS:** The threads shall be in accordance with Screw-Thread Standards for Federal Services, Handbook H-28.
4. **THREAD LENGTHS:** Screws 2.00 inches long and shorter shall have complete threads extending to within two threads of the head, or closer if practicable. Longer screws shall have a minimum thread length of 1.50 inches.
5. **DIMENSIONS:** All dimensions are in inches unless otherwise specified.
6. **PART NUMBER:** The MS part number consists of the MS number, plus the dash number.
Example: MS35273-1
7. Drilled hole is to be approximately at right angles to the slot and may be permitted to break through the bottom of the slot. All sharp edges shall be removed.
8. Referenced documents shall be of the issue in effect on date of invitation for bid.
9. For design feature purposes, this standard takes precedence over procurement documents referenced herein.

APPROVED 9 FEB 1954 REVISED (A) 18 JUN 1962 (B) 29 JUL 1965 (C) FOR CHANGES SEE SHEET 1.

P.A. WC Other Code 82	TITLE SCREW, MACHINE-DRILLED FILLISTER HEAD, SLOTTED, BRASS, BLACK CHEMICAL FINISH, UNC-2A	MILITARY STANDARD MS35273
PROCUREMENT SPECIFICATION FF-S-92	SUPERSEDES: BMS3527, BOPKS, BOPKS-1, BOPPM, AND CO IN PART, BMS3527, BMS3528 AND BOPM	SHEET 2 OF 4

DD FORM 672-1 (COORDINATED)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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REVIEW: EL, ME, EA, RA, PA, MM, AT
UNCLASSIFIED, EXCEPT WHERE SHOWN OTHERWISE

**TABLE II
INTERCHANGEABILITY TABLE**

**FED. SUP CLASS
5305**

The screws covered by the dash numbers given in MS35271 and in part AN500 are cancelled/inactivated after the approval date of revision B indicated on this document. Use the dash numbers given in the preceding sheets. The cancelled screws cannot always replace the new screws and should be used until existing stocks are depleted. Use only the new screws for design and replacement. Replacement shall be in accordance with this table.

PART NUMBERS			PART NUMBERS		
CANCELLED		SUPERSEDED BY	CANCELLED		SUPERSEDED BY
MS35271	AN500	MS35273	MS35271	AN500	MS35273
1		1	61	AB10-6	61
2	AB2-3	2	62	AB10-7	62
3	AB2-4	3	63	AB10-8	63
4	AB2-5	4	64	AB10-10	64
5	AB2-6	5	65	AB10-12	65
6	AB2-7	6	66	AB10-14	66
7	AB2-8	7	67	AB10-16	67
8	AB2-10	8		AB10-18	No Replacement
9	AB2-12	9	68	AB10-20	68
10		10		AB10-22	No Replacement
	AB3-3 thru AB3-8	No Replacement	69	AB10-24	69
	AB3-10	No Replacement	70	AB10-28	70
	AB3-12	No Replacement	71	AB10-32	71
11		11	72		72
12	AB4-3	12	73	AB10-40	73
13	AB4-4	13	74		74
14	AB4-5	14	75	AB10-48	75
15	AB4-6	15	76		76
16	AB4-7	16	77	AB416-6	77
17	AB4-8	17	78	AB416-7	78
18	AB4-10	18	79	AB416-8	79
19	AB4-12	19	80	AB416-10	80
20		20	81	AB416-12	81
21		21	82	AB416-14	82
22		22	83	AB416-16	83
23		23		AB416-18	No Replacement
	AB5-3 thru AB5-8	No Replacement	84	AB416-20	84
	AB5-10	No Replacement		AB416-22	No Replacement
	AB5-12	No Replacement	85	AB416-24	85
24		24	86	AB416-28	86
25	AB6-3	25	87	AB416-32	87
26	AB6-4	26	88		88
27	AB6-5	27	89	AB416-40	89
28	AB6-6	28	90		90
29	AB6-7	29	91	AB416-48	91
30	AB6-8	30	92	AB516-6	92
31	AB6-10	31	93	AB516-7	93
32	AB6-12	32	94	AB516-8	94
33	AB6-14	33	95	AB516-10	95
34	AB6-16	34	96	AB516-12	96
	AB6-18	No Replacement	97	AB516-14	97
35	AB6-20	35	98	AB516-16	98
	AB6-22	No Replacement		AB516-18	No Replacement
36	AB6-24	36	99	AB516-20	99
37	AB6-28	37		AB516-22	No Replacement
38	AB6-32	38	100	AB516-24	100
39		39	101	AB516-28	101
40		40	102	AB516-32	102
41	AB8-4	41	103		103
42	AB8-5	42	104	AB516-40	104
43	AB8-6	43	105		105
44	AB8-7	44	106	AB516-48	106
45	AB8-8	45		AB616-6	No Replacement
46	AB8-10	46		AB616-7	No Replacement
47	AB8-12	47	107	AB616-8	107
48	AB8-14	48	108	AB616-10	108
49	AB8-16	49	109	AB616-12	109
	AB8-18	No Replacement	110	AB616-14	110
50	AB8-20	50	111	AB616-16	111
	AB8-22	No Replacement		AB616-18	No Replacement
51	AB8-24	51	112	AB616-20	112
52	AB8-28	52		AB616-22	No Replacement
53	AB8-32	53	113	AB616-24	113
54		54	114	AB616-28	114
55		55	115	AB616-32	115
56		56	116		116
57		57	117	AB616-40	117
58		58	118		118
59	AB10-4	59	119	AB616-48	119
60	AB10-5	60			

APPROVED FEB 9, 1954 REVISED (B) 29 JUL 1945 (C) FOR CHANGES SEE SHEET 1.

P.A. VC	TITLE	MILITARY STANDARD
Other Cont AB 82	SCREW, MACHINE - DRILLED FILLISTER HEAD, SLOTTED, BRASS, BLACK CHEMICAL FINISH, UNC-2A	MS35273
PROCUREMENT SPECIFICATION FF-S-92	SUPERSEDES: MS35271, BOP13, BOP13.1, BOP14, AN500 IN PART, MS35364, MS35364 AND BOP11.	SHEET 3 OF 4

REVIEW: EL, ME, EA, EN, AV, MI, AT
USCIB, BAC, B, M, T, PA, W, MC

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and for repetitive use shall be made from this document, previous editions.

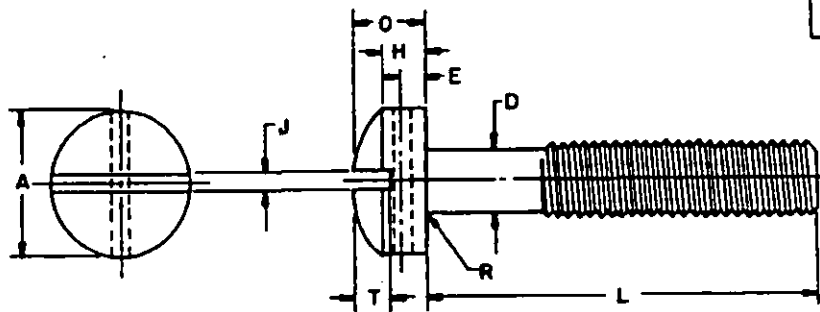


TABLE III
METRIC TRANSLATION OF TABLE I

NOMINAL SIZE		MM	2.184	2.845	3.505	4.166	4.826	6.350	7.938	9.525
PITCH			.45	.64	.79	.79	1.06	1.27	1.41	1.59
D BODY DIAMETER	MAX	2.184	2.845	3.505	4.166	4.826	6.350	7.938	9.525	
	MIN	1.821	2.350	2.898	3.553	4.028	5.403	6.888	8.349	
A HEAD DIAMETER	MAX	3.556	4.648	5.740	6.858	7.950	10.516	13.157	15.799	
	MIN	3.150	4.216	5.283	6.350	7.417	9.881	12.446	14.986	
H HEAD SIDE HEIGHT	MAX	1.575	2.007	2.438	2.870	3.302	4.318	5.359	6.426	
	MIN	1.397	1.829	2.261	2.692	3.124	4.089	5.105	6.147	
O TOTAL HEAD HEIGHT	MAX	2.108	2.718	3.353	3.962	4.572	6.020	7.493	9.017	
	MIN	1.778	2.388	2.997	3.581	4.191	5.563	7.010	8.458	
J SLOT WIDTH	MAX	.787	.991	1.219	1.372	1.524	1.905	2.134	2.388	
	MIN	.584	.787	.991	1.143	1.270	1.626	1.829	2.057	
T SLOT DEPTH	MAX	.762	.965	1.143	1.651	1.905	2.591	3.302	3.912	
	MIN	.559	.762	.889	1.372	1.626	2.210	2.794	3.404	
E DRILL LOCATION		NOM	.660	.889	1.092	1.092	1.092	1.575	1.981	2.388
DRILLED HOLE SIZE		NOM	.787	.940	1.168	1.168	1.168	1.575	1.778	1.778
R RADIUS		MAX	.330	.432	.533	.635	.737	.965	1.194	1.422
TENSILE STRENGTH, KN-MIN			.941	1.523	2.330	3.585	4.482	8.112	13.401	19.811
L LENGTH	TOLERANCE	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.
3.175	+0 -.787	1	11	24	39	58	76	92	107	108
4.775		2	12	25	40	60				
6.350		3	13	26	41	61				
7.925		4	14	27	42	62				
9.525		5	15	28	43	61	77	93		
11.125		6	16	29	44	62	78	94		
12.700		7	17	30	45	63	79	95		
15.875		8	18	31	46	64	80	96		
19.050	+0 -1.575	9	19	32	47	65	81	96	109	110
22.225		10	20	33	48	66	82	97	111	112
25.400			21	34	49	67	83	98		
31.750			22	35	50	68	84	99		
38.100	+0 -1.575		23	36	51	69	85	100	113	114
44.450			37	52	70	86	101	115		
50.800			38	53	71	87	102	116		
57.150				54	72	88	103			
63.500	+0 -2.388			55	73	89	104	117	118	119
69.850				56	74	90	105			
76.200				57	75	91	106			

NOTE: All dimensions are in millimetres (mm), unless otherwise specified, and are based on an approximate conversion factor of 25.4mm equals one inch.

P.A. MC

Other Cases	85
	82

TITLE

**SCREW, MACHINE-DRILLED FILLISTER HEAD, SLOTTED,
BRASS, BLACK CHEMICAL FINISH, UNC-2A**

MILITARY STANDARD

MS 35273

PROCUREMENT SPECIFICATION
FF-S-92

APPROXIMATE: 0000Z, 0000Z, 0000Z, 0000Z, 0000Z IN PART, 0000Z, 0000Z AND 0000Z.

SHEET 4 OF 4

OR CHANGES SEE SHEET 1.

REVISED (A) 18 JUN 1962 (B) 29 JUL 1963

APPROVED 9 FEB 1954

REVIEW: CL, ME, LA, IS, AL, MI, AT
USERS: SH, CL, MI, YO, PA, WV, MC

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