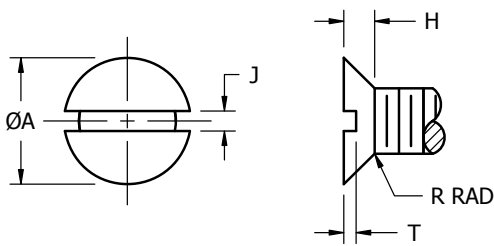
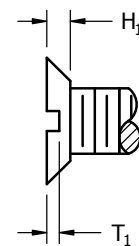
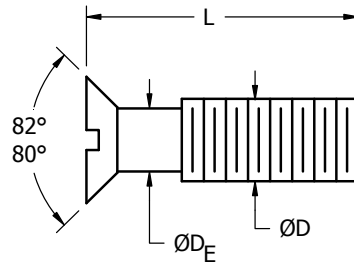


FED. SUPPLY CLASS

5305



FULL HEAD



UNDERCUT HEAD

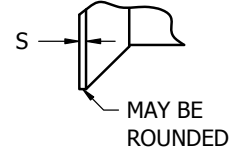


TABLE I – DIMENSIONS

NOM SIZE (NO. OR INCH)	THD PER INCH	ØD _E BODY		ØA HEAD			J SLOT WIDTH		S FLAT	R RAD	FULL HEAD		UNDERCUT HEAD					
											H HEAD HEIGHT	T SLOT DEPTH	H ₁ HEAD HEIGHT	T ₁ SLOT DEPTH				
		MAX	MIN	MAX SHARP	MIN SHARP	ABS MIN	MAX	MIN	MAX	MAX	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
2 (.086)	56NC	.0860	.0717	.172	.156	.150	.031	.023	.003	.036	.051	.040	.023	.015	.037	.026	.019	.015
4 (.112)	40NC	.1120	.0925	.225	.207	.200	.039	.031	.004	.050	.067	.055	.030	.020	.048	.036	.025	.020
6 (.138)	32NC	.1380	.1141	.279	.257	.249	.048	.039	.005	.063	.083	.069	.038	.024	.060	.046	.032	.024
8 (.164)	32NC	.1640	.1399	.332	.308	.300	.054	.045	.006	.063	.100	.084	.045	.029	.071	.055	.037	.029
10 (.190)	24NC	.1900	.1586	.385	.359	.348	.060	.050	.007	.083	.116	.098	.053	.034	.083	.065	.044	.034
1/4	20UNC	.2500	.2127	.507	.477	.462	.075	.064	.009	.100	.153	.131	.070	.046	.108	.086	.058	.046
5/16	18UNC	.3125	.2712	.635	.600	.581	.084	.072	.011	.111	.191	.165	.088	.058	.135	.109	.073	.058
3/8	16UNC	.3750	.3287	.762	.722	.700	.094	.081	.013	.125	.230	.200	.106	.070	.162	.132	.088	.070
7/16	14UNC	.4375	.3850	.812	.771	.743	.094	.081	.016	.143	.223	.190	.103	.066	.156	.126	.085	.066
1/2	13UNC	.5000	.4435	.875	.831	.802	.106	.091	.018	.154	.223	.186	.103	.065	.160	.123	.085	.065
5/8	11UNC	.6250	.5589	1.125	1.069	1.035	.133	.116	.023	.182	.298	.253	.137	.088	.212	.167	.114	.088
3/4	10UNC	.7500	.6773	1.375	1.306	1.267	.149	.131	.027	.200	.372	.319	.171	.111	.264	.211	.142	.111

MATERIAL:

COPPER-SILICON ALLOY NO. 651 (UNS C65100) PER QQ-C-591 ASTM B98/B98M.

① COMPLETELY REVISED

THE INITIAL RELEASE OF THIS DOCUMENT SUPERSEDES MS16218 REVISION B. PART NUMBERS REMAIN MS16218.



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NATIONAL AEROSPACE STANDARDS COMMITTEE

REVISION
1

PROCUREMENT
SPECIFICATION

FF-S-92

TITLE
**SCREW, MACHINE, FLAT COUNTERSUNK HEAD, SLOTTED,
COPPER-SILICON ALLOY,
UNC-2A, NONMAGNETIC** ①

CLASSIFICATION
PART STANDARD

MS16218
SHEET 1 OF 2

NOTES:

- /1/ HAVE UNDERCUT HEAD.
- (2) THREADS SHALL BE IN ACCORDANCE WITH FED-STD-H28.
- (3) DIMENSIONS IN INCHES.
- (4) THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.
- (5) UNLESS OTHERWISE SPECIFIED, PART INVENTORY MANUFACTURED TO PREVIOUS REVISIONS OF THE APPLICABLE DRAWING OR SPECIFICATION MAY BE PROCURED AND USED UNTIL STOCK IS DEPLETED.
- (6) UNLESS OTHERWISE SPECIFIED HEREIN, REFERENCED DOCUMENTS SHALL BE THE ISSUE IN EFFECT ON DATE OF MANUFACTURE. HOWEVER, EXISTING MATERIAL INVENTORY CERTIFIED TO A PREVIOUS REVISION OF THE APPLICABLE MATERIAL SPECIFICATION(S) IS ACCEPTABLE FOR USE UNTIL DEPLETION.
- (7) DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1982.
- /8/ FOR LENGTH 1/8 TO 2, THREADS SHALL EXTEND TO WITHIN 2 THREADS OF THE BEARING SURFACE OF THE HEAD, OR CLOSER IF PRACTICABLE. FOR LENGTHS 2 1/4 TO 12, MINIMUM COMPLETE THREAD LENGTH OF 1 3/4.

TABLE II – LENGTH DASH NUMBERS /8/

L LENGTH	LENGTH TOLERANCE	2 (.086)	4 (.112)	6 (.138)	8 (.164)	10 (.190)	1/4	5/16	3/8	7/16	1/2	5/8	3/4
/1/ 1/8	+0 -1/32	8	18	31	46	—	—	—	—	—	—	—	—
3/16		9	19	32	47	65	—	—	—	—	—	—	—
1/4		10	20	33	48	66	—	—	—	—	—	—	—
5/16		11	21	34	49	67	83	—	—	—	—	—	—
3/8		12	22	35	50	68	84	99	—	—	—	—	—
7/16		13	23	36	51	69	85	100	—	—	—	—	—
1/2		14	24	37	52	70	86	101	114	—	—	—	—
5/8		15	25	38	53	71	87	102	115	127	—	—	—
3/4	+0 -1/16	16	26	39	54	72	88	103	116	128	139	—	—
7/8		17	27	40	55	73	89	104	117	129	140	160	—
1		—	28	41	56	74	90	105	118	130	141	161	170
1 1/4		—	29	42	57	75	91	106	119	131	142	162	171
1 1/2		—	30	43	58	76	92	107	120	132	143	163	172
1 3/4		—	—	44	59	77	93	108	121	133	144	164	173
2		—	—	45	60	78	94	109	122	134	145	165	174
2 1/4		—	—	—	61	79	95	110	123	135	146	166	175
2 1/2	+0 -3/32	—	—	—	62	80	96	111	124	136	147	167	176
2 3/4		—	—	—	63	81	97	112	125	137	148	168	177
3		—	—	—	64	82	98	113	126	138	149	169	178
4		—	—	—	—	—	179	180	181	193	185	188	—
5		—	—	—	—	—	192	—	182	—	—	—	—
5 1/2		—	—	—	—	—	—	—	183	—	—	—	—
6		—	—	—	—	—	—	—	184	—	—	189	—
8		—	—	—	—	—	—	—	—	—	186	190	—
12		—	—	—	—	—	—	—	—	—	187	191	—

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REVISION

1

NAS 16218

SHEET 2



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