

FED.SUPPLY CLASS

5305

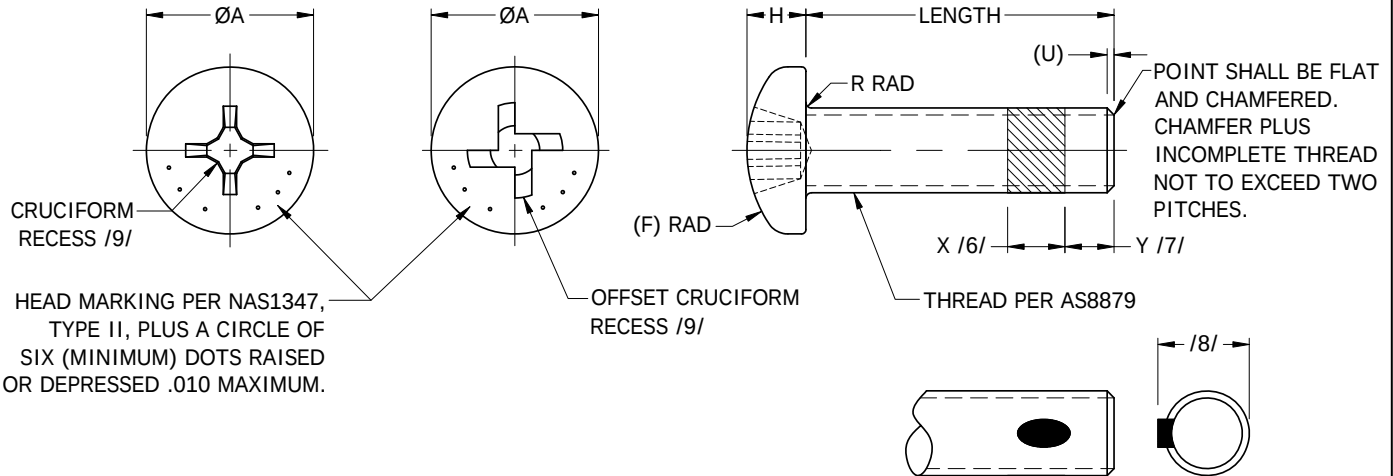


TABLE I – DIMENSIONS AND STRENGTH VALUES

FIRST DASH NUMBER	THREAD	ØA	(F) RAD	H	R RAD	(U)	ULTIMATE TENSILE STRENGTH LBF MIN /10/ /16/
02	.0860-56 UNJC-3A	.167 .155	.132	.062 .053	.010 .005	.010	591
04	.1120-40 UNJC-3A	.219 .205	.173	.080 .070	.010 .005	.013	966
06	.1380-32 UNJC-3A	.270 .256	.207	.097 .087	.010 .005	.016	1,450
08	.1640-32 UNJC-3A	.322 .306	.244	.115 .105	.020 .010	.016	2,240
3	.1900-32 UNJF-3A	.373 .357	.284	.133 .122	.020 .010	.016	3,180
4	.2500-28 UNJF-3A	.492 .473	.373	.175 .162	.020 .010	.018	5,820
5	.3125-24 UNJF-3A	.615 .594	.527	.218 .203	.020 .010	.021	9,200
6	.3750-24 UNJF-3A	.740 .716	.652	.261 .244	.025 .015	.021	14,000

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THIRD ANGLE PROJECTION	CUSTODIAN NATIONAL AEROSPACE STANDARDS COMMITTEE	REVISION 4
PROCUREMENT SPECIFICATION NOTED	TITLE SCREW, SELF-LOCKING, PAN HEAD, FULL THREAD, PATCH TYPE	CLASSIFICATION PART STANDARD
		NAS1742 SHEET 1 OF 3

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MATERIAL:

ALLOY STEEL - 4340 (UNS G43400) PER AMS6415 OR AMS6484, OR 8740 (UNS G87400) PER AMS6322, AMS6325 OR AMS6327 ~~ML-S-6049~~.

CRES - A286 (UNS S66286) CONFORMING TO THE CHEMISTRY OF AMS5731, AMS5732, AMS5737 OR AMS5853. /16/

LOCKING ELEMENT - NYLON OR EQUIVALENT.

HEAT TREAT:

DEVELOP BASIC MATERIAL PROPERTIES AS FOLLOWS, WITH CONTROL PER AMS2759. /16/

ALLOY STEEL : 160-180 KST Ft.

CRES: 160-190 KSI Ft. PRECIPITATION HARDENING PER AMS5853.

FINISH:

ALLOY STEEL - CADMIUM PLATE PER AMS-QQ-P-416, TYPE II, CLASS 2.

CRES - PASSIVATE PER AMS2700, METHOD 1, CLASS 4 OR CADMIUM PLATE PER AMS-QQ-P-416, TYPE II CLASS 2.

EXAMPLE OF PART NUMBER:

NAS1742 C 5 R 10 U = SCREW, SELF-LOCKING, CRES, .3125-24 THREAD, CRUCIFORM RECESS, .625 LONG, NOT PLATED

NO PLATING (A286 ONLY); OMIT FOR PLATED PARTS
SECOND DASH NUMBER = LENGTH AS TABULATED IN TABLE II

"R" = CRUCIFORM RECESS
"T" = OFFSET CRUCIFORM RECESS

FIRST DASH NUMBER = SIZE AS TABULATED IN TABLE I

"C" = CORROSION RESISTANT STEEL
"-" = ALLOY STEEL

BASIC PART NUMBER

NOTES:

- (1) DIAMETER OF UNTHREADED PORTION OF SCREWS SHALL NOT BE LESS THAN MINIMUM PITCH DIAMETER NOR MORE THAN MAXIMUM MAJOR DIAMETER OF THREAD.
- (2) FOR SCREWS 2 INCHES LONG OR SHORTER, COMPLETE THREADS SHALL EXTEND TO WITHIN 2 THREADS OF THE BEARING SURFACE OF THE HEAD. SCREWS OF LONGER LENGTH SHALL HAVE A MINIMUM COMPLETE THREAD LENGTH OF 1.750.
- (3) SCREWS SHALL BE FREE FROM BURRS AND SHARP EDGES.
- (4) BEARING SURFACE SQUARENESS: WITHIN .003 FIM OF SHANK DIAMETER.
- (5) FOR CORROSION RESISTANT STEEL, MAGNETIC PERMEABILITY SHALL BE LESS THAN 2.0 (AIR = 1.0) FOR A FIELD STRENGTH H = 200 OERSTEDS USING A MAGNETIC PERMEABILITY INDICATOR PER ASTM A342/A342M, TEST METHOD 3.

REVISION

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NAS1742
SHEET 2



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