

FED. SUPPLY CLASS

5305

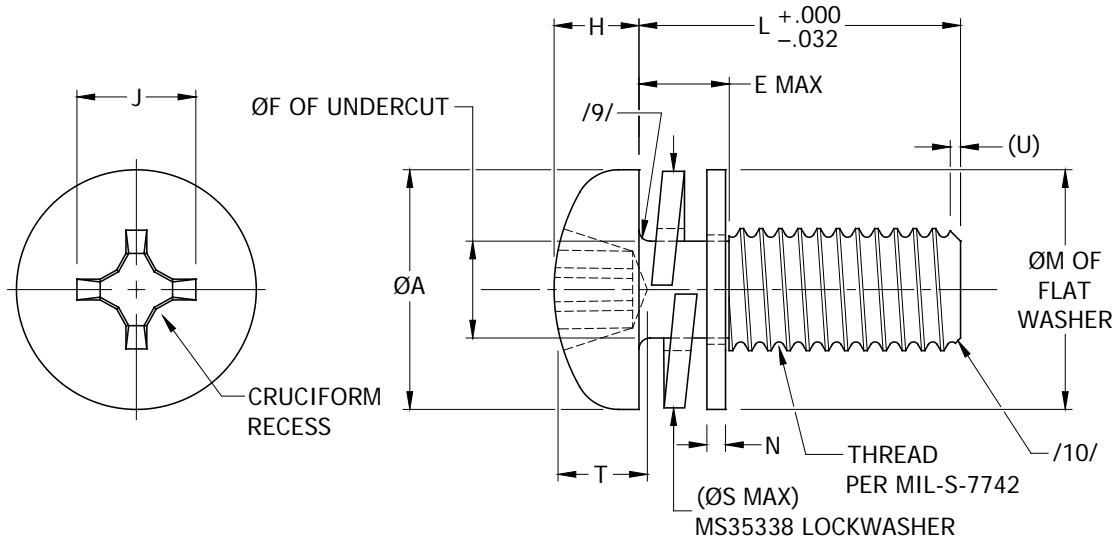


TABLE I – DIAMETER AND LENGTH CODES

L LENGTH	DASH NO.			
	.1120-40 UNC-2A	.1380-32 UNC-2A	.1640-32 UNC-2A	.1900-32 UNF-2A
.250	4-4	6-4	8-4	10-4
.312	4-5	6-5	8-5	10-5
.375	4-6	6-6	8-6	10-6
.438	4-7	6-7	8-7	10-7
.500	4-8	6-8	8-8	10-8

TABLE II – DIMENSIONS

THREAD	ØA	H	J	T	E MAX	ØF	(U)	(ØS MAX)	ØM	N
.1120-40 UNC-2A	.219 .205	.080 .070	.122 .109	.090 .080	.081	.0805 .0745	.016	.212	.223 .213	.019 .013
.1380-32 UNC-2A	.270 .256	.097 .087	.166 .153	.111 .101	.093	.0989 .0929	.016	.253	.263 .253	.019 .013
.1640-32 UNC-2A	.322 .306	.115 .105	.182 .169	.127 .117	.109	.1248 .1188	.016	.296	.317 .307	.019 .013
.1900-32 UNF-2A	.373 .357	.132 .122	.199 .186	.145 .135	.140	.1508 .1448	.016	.337	.348 .338	.035 .029

④ COMPLETELY REVISED

AEROSPACE INDUSTRIES ASSOCIATION OF AMERICA, INC.
1000 WILSON BLVD.
ARLINGTON, VA 22209

THIS DRAWING SUPERSEDES ALL ANTECEDENT STANDARD DRAWINGS FOR THE SAME
PRODUCT AND SHALL BECOME EFFECTIVE NO LATER THAN SIX MONTHS FROM THE LAST
REVISION DATE.

REVISION DATE: JANUARY 28, 2011

ISSUE DATE: JULY 1959

THIRD ANGLE PROJECTION	
PROCUREMENT SPECIFICATION	NONE

CUSTODIAN NATIONAL AEROSPACE STANDARDS COMMITTEE	REVISION 4
TITLE SCREW, PAN HEAD, ASSEMBLED WASHERS	CLASSIFICATION PART STANDARD
	NAS1301 SHEET 1 OF 2



NATIONAL AEROSPACE STANDARD

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FORM 09-01

- MATERIAL:** CARBON STEEL - SCREW: STEEL PER ASTM A 663/A 663M, 55,000 PSI MINIMUM TENSILE STRENGTH.
- FLAT WASHER: 1020 (UNS G10200) PER ~~MIL-S-7952~~ AMS5046.
- BRASS - SCREW: COMMERCIAL BRASS (UNS C26000), 55,000 PSI MINIMUM TENSILE STRENGTH.
- FLAT WASHER: COPPER ALLOY (UNS C28000), PER ~~QQ-B-613~~ ASTM B 36/B 36M.
- CRES - SCREW: CLASS 302 CONDITION B (UNS S30200) OR CLASS 304 CONDITION A (UNS S30400)
PER AMS-QQ-S-763.
- FLAT WASHER: 302 (UNS S30200) PER ~~MIL-S-5059~~ AMS5516, AMS5903, AMS5904, AMS5905
OR AMS5906, 304 (UNS S30400) PER AMS5513, AMS5910, AMS5911, AMS5912 OR AMS5913,
OR 384 (UNS S38400) PER ASTM A 493.
- FINISH:** CARBON STEEL - CADMIUM PLATING PER AMS-QQ-P-416, TYPE II, CLASS 2.
BRASS - TIN PLATE PER AMS2408 OR AMS2409.
CRES - PASSIVATE PER AMS2700, METHOD 1, CLASS 4.
- CODE:** LENGTH CODES ARE IN INCREMENTS OF .0625 OF AN INCH.
NO LETTER BETWEEN BASIC NUMBER AND FIRST DASH NUMBER FOR CARBON STEEL SCREW,
FLAT WASHER, AND STEEL LOCKWASHER. CADMIUM PLATED ASSEMBLY.
ADD "B" BETWEEN BASIC NUMBER AND FIRST DASH NUMBER FOR BRASS SCREW, FLAT WASHER,
AND BRONZE LOCKWASHER. TIN PLATED ASSEMBLY.
ADD "C" BETWEEN BASIC NUMBER AND FIRST DASH NUMBER FOR CRES SCREW AND WASHERS.

EXAMPLE OF PART NUMBER:

- NAS1301-6-5 = CARBON STEEL, .1380-32 THREAD, 5/16 LONG, CADMIUM PLATED.
 NAS1301B8-6 = BRASS, .1640-32 THREAD, 3/8 LONG, TIN PLATED.
 NAS1301C6-5 = CRES, .1380-32 THREAD, 5/16 LONG, PASSIVATED.

NOTES:

- (1) THIS HARDWARE IS DESIGNED FOR USE WITH AN ELECTRICAL TERMINAL OF .032 INCH MINIMUM THICKNESS.
- (2) WASHERS SHALL BE HELD ON SCREWS BY THE SCREW THREADS AND MUST ALLOW FREE ROTATION OF THE SCREW WHEN TIGHTENING.
- (3) ASSEMBLY SHALL BE FREE OF ALL LOOSE OR HANGING BURRS OR SLIVERS WHICH MIGHT BECOME DISLODGED UNDER USAGE.
- (4) DIMENSIONS IN INCHES AND APPLY AFTER FINISH UNLESS OTHERWISE SPECIFIED.
- (5) THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.
- (6) UNLESS OTHERWISE SPECIFIED, PART INVENTORY MANUFACTURED TO PREVIOUS REVISIONS OF THE APPLICABLE DRAWING OR SPECIFICATION MAY BE PROCURED AND USED UNTIL STOCK IS DEPLETED.
- (7) REFERENCED DOCUMENTS SHALL BE THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BID.
- (8) DIMENSIONING AND TOLERENCING PER ANSI Y14.5M-1982.
- /9/ RADIUS SHALL NOT EXCEED 3/4 OF THE PITCH PER FF-S-92.
- /10/ POINT SHALL BE FLAT AND CHAMFERED. CHAMFER "U". CHAMFER PLUS INCOMPLETE THREADS NOT TO EXCEED TWO PITCHES.

④ COMPLETELY REVISED

REVISION 4
NAS1301 SHEET 2