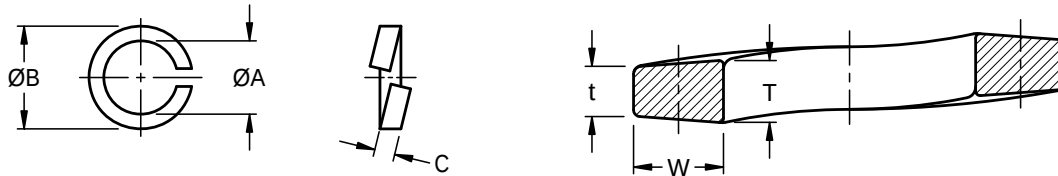


FED. SUPPLY CLASS

5310



③

TABLE I – DIMENSIONS

DASH NO.	SCREW SIZE	ØA		W WIDTH MIN	C THICKNESS $\frac{T+t}{2}$ MIN	ØB MAX	WEIGHT LBS/1000 APPROX.
		MAX	MIN				
0	.0600	.068	.062	.018	.018	.112	.03
1	.0730	.081	.075	.022	.022	.133	.04
2	.0860	.094	.088	.022	.022	.146	.05
4	.1120	.121	.115	.022	.022	.173	.07
6	.1380	.148	.141	.030	.030	.216	.16
8	.1640	.175	.168	.042	.047	.267	.42
10	.1900	.202	.194	.042	.047	.294	.47
416	.2500	.263	.255	.047	.078	.365	1.08
516	.3125	.328	.318	.062	.093	.460	2.11
616	.3750	.393	.382	.076	.125	.553	4.12
716	.4375	.459	.446	.090	.140	.647	6.36
816	.5000	.523	.509	.103	.172	.737	10.14
1016	.6250	.653	.636	.125	.203	.923	18.72
1216	.7500	.783	.763	.154	.218	1.111	29.53
1416	.8750	.912	.890	.182	.234	1.296	43.46
1616	1.0000	1.042	1.017	.208	.250	1.483	60.88
1816	1.1250	1.172	1.144	.236	.313	1.669	96.57
2016	1.2500	1.302	1.271	.236	.313	1.799	105.43
2216	1.3750	1.432	1.398	.292	.375	2.041	173.74
2416	1.5000	1.561	1.525	.292	.375	2.170	186.78

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 30, 2015

ISSUE DATE: APRIL 1964

THIRD ANGLE PROJECTION	
PROCUREMENT SPECIFICATION	
FF-W-84	

CUSTODIAN	NATIONAL AEROSPACE STANDARDS COMMITTEE
TITLE	WASHER, LOCK, SPRING, HELICAL, HI-COLLAR

REVISION	3
CLASSIFICATION PART STANDARD	

MATERIAL: STEEL - CARBON COMP 1060 (UNS G10600) TO 1080 (UNS G10800) IN ACCORDANCE WITH ~~FED-STD-66~~ PROCUREMENT SPECIFICATION, HAVING A HARDNESS OF 45-53 HRC.

CRES - COMP 300 SERIES (UNS S30300) TO (UNS S30323) IN ACCORDANCE WITH ~~FED-STD-66~~ PROCUREMENT SPECIFICATION, HAVING A HARDNESS OF 35-45 HRC. 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.

FINISH: STEEL - CADMIUM PLATE PER AMS-QQ-P-416, TYPE II, CLASS 2.
CADMIUM PLATE WITH BLACK CHROMATE DIP PER AMS-QQ-P-416, TYPE II, CLASS 2 (EXCEPT FOR COLOR).

CRES - PASSIVATE PER AMS2700, METHOD 1, CLASS 4.
BLACK OXIDE PER MIL-DTL-13924, CLASS 4.

CODE: "-" BETWEEN BASIC NUMBER AND DASH NUMBER INDICATES STEEL MATERIAL.
"C" BETWEEN BASIC NUMBER AND DASH NUMBER INDICATES CRES MATERIAL.
"P" FOLLOWING DASH NUMBER INDICATES BLACK CHROMATE DIP FOR CADMIUM PLATED WASHERS, OR BLACK OXIDE FOR CRES WASHERS.

EXAMPLE OF PART NUMBER:

- | | |
|---|--|
| 3 | NAS1676-416 = WASHER FOR .2500 SIZE SCREW, STEEL, CADMIUM PLATED. |
| | NAS1676-416P = WASHER FOR .2500 SIZE SCREW, STEEL, CADMIUM PLATED WITH BLACK CHROMATE DIP. |
| | NAS1676C416 = WASHER FOR .2500 SIZE SCREW, CRES, PASSIVATED. |
| | NAS1676C416P = WASHER FOR .2500 SIZE SCREW, CRES WITH BLACK OXIDE. |

NOTES:

- (1) THESE WASHERS ARE PRIMARILY INTENDED FOR USE WITH SOCKET HEAD CAP SCREWS (1960 SERIES) SUCH AS NAS1351 AND NAS1352.
- (2) REMOVE ALL BURRS.
- (3) DIMENSIONS IN INCHES AND APPLY AFTER FINISH UNLESS OTHERWISE SPECIFIED.
- (4) SEE AND10476 FOR LIMITATIONS ON USAGE OF LOCKWASHERS IN AIRFRAME CONSTRUCTION.
- (5) DASH NUMBERS 716 AND 816 SUPERSEDE DASH 171 AND 818 RESPECTIVELY.
- (6) THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.
- (7) UNLESS OTHERWISE SPECIFIED, PART INVENTORY MANUFACTURED TO PREVIOUS REVISIONS OF THE APPLICABLE DRAWING OR SPECIFICATION MAY BE PROCURED AND USED UNTIL STOCK IS DEPLETED.
- 3 (8) 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.
- (9) DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1982.

REVISION

3

NAS1676
SHEET 2



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