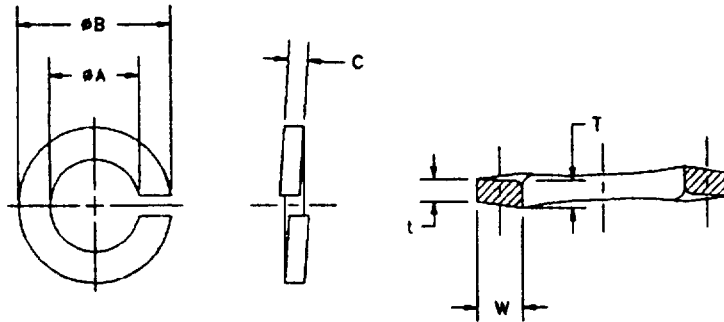


THE REQUIREMENTS FOR ACQUIRING THE PRODUCT(S) DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION SHEET AND THE ISSUE OF THE FOLLOWING SPECIFICATION LISTED IN THAT ISSUE OF THE DODISS SPECIFIED IN THE SOLICITATION: ASME B18.21.1

THIS SPECIFICATION IS APPROVED FOR USE BY ALL DEPARTMENTS AND AGENCIES OF THE DEPARTMENT OF DEFENSE.



(F)
TABLE I. DASH NUMBERS AND DIMENSIONS

NOMINAL SIZE	DASH NUMBERS CADMIUM OR ZINC	ØA (ID)		ØB (OD)	WASHER SECTION	
		MIN	MAX	MAX	W WIDTH	C THICKNESS $\frac{1+1}{2}$
NO.2 (.086)	39	.088	.094	.208	.053	.027 +.006
NO.4 (.112)	40	.114	.120	.253	.082	.034 +.006
NO.6 (.138)	41	.141	.148	.314	.079	.045 +.006
NO.8 (.164)	42	.167	.174	.375	.096	.057 +.006
NO.10 (.190)	43	.193	.200	.434	.112	.068 +.006
1/4 (.250)	44	.252	.260	.533	.132	.084 +.010
5/16 (.312)	45	.314	.322	.619	.143	.108 +.010
3/8 (.375)	46	.377	.385	.738	.170	.123 +.010
7/16 (.437)	47	.440	.450	.836	.186	.143 +.010
1/2 (.500)	48	.502	.512	.935	.204	.162 +.010
9/16 (.562)	49	.564	.574	1.035	.223	.182 +.010
5/8 (.625)	50	.628	.641	1.151	.242	.202 +.010
3/4 (.750)	51	.753	.766	1.355	.279	.241 +.010
7/8 (.875)	52	.878	.894	1.571	.322	.285 +.020
1 (1.000)	53	1.003	1.024	1.794	.366	.330 +.020
1-1/8(1.125)	54	1.129	1.153	2.013	.411	.375 +.020
1-1/4(1.250)	55	1.254	1.280	2.222	.452	.417 +.020
1-3/8(1.375)	56	1.379	1.408	2.429	.491	.458 +.020
1-1/2(1.500)	57	1.504	1.534	2.627	.526	.496 +.020

1/ SEE NOTE 2.

(F) DENOTES CHANGE(S)

INCH-POUND

PREPARING ACTIVITY: DLA-IS CUSTOMANS: ARMY-AR NAVY-AS AIR FORCE-99 DLA- REVIEW: AV, GL, ME, MI, YD USER: AT, SH, OS, YD PROJECT NUMBER: 5310-1897	MILITARY SPECIFICATION SHEET TITLE WASHER, LOCK-HELICAL SPRING, EXTRA DUTY (EXTRA-HEAVY) SERIES	SPECIFICATION SHEET NUMBER MS35340	13 DEC 93 REV F
		SUPERSEDING MS35340 E 30 MARCH 1990 (SEE NOTE 3.)	AMSC- N/A FSC 5310

DISTRIBUTION STATEMENT
A. Approved for public release; distribution is unlimited. Page 1 of 2

REQUIREMENTS:

1. **MATERIAL:** STEEL, CARBON 1080 (UNS G10800) THRU 1080 (UNS G10800)
2. **PROTECTIVE COATING:** CADMIUM PLATING SHALL BE IN ACCORDANCE WITH QQ-P-416, TYPE II, CLASS 2, OR MIL-C-81562, TYPE II, CLASS 2 OR
 (F) MECHANICALLY DEPOSITED ZINC SHALL BE IN ACCORDANCE WITH MIL-C-81562, TYPE II, CLASS 6.
3. **HARDNESS:** CARBON STEEL WASHERS SHALL HAVE A HARDNESS OF 38-46HRC.
4. **PART NUMBER:** THE PART NUMBER SHALL CONSIST OF THE BASIC SPECIFICATION SHEET NUMBER FOLLOWED BY A DASH NUMBER TAKEN FROM TABLE I.

EXAMPLE: MS35340-40



MS35340-40 INDICATES - WASHER, LOCK, HELICAL SPRING, EXTRA DUTY (EXTRA HEAVY) SERIES; NO. 4 (.112) NOMINAL SIZE; CARBON STEEL;
 (F) CADMIUM OR ZINC PLATING

- (F) 5. **PACKAGING:** PACKAGING SHALL BE IN ACCORDANCE WITH ASTM D3951.

NOTES:

1. ALL DIMENSIONS ARE IN INCHES.
2. DASH NUMBERS 47, 49, 52, 54, AND 56 ARE INACTIVE FOR NEW DESIGN.
3. MS35340 SUPERSEDES MS35339, BECX3 AND BECX3.1, SEE TABLE II.
4. IN THE EVENT OF A CONFLICT BETWEEN THE TEXT OF THIS STANDARD AND THE REFERENCES CITED HEREIN, THE TEXT OF THIS STANDARD SHALL TAKE PRECEDENCE.
5. REFERENCED GOVERNMENT (OR NON-GOVERNMENT) DOCUMENTS OF THE ISSUE LISTED IN THAT ISSUE OF THE DEPARTMENT OF DEFENSE INDEX OF SPECIFICATIONS AND STANDARDS (DODISS) SPECIFIED IN THE SOLICITATION FORM A PART OF THIS STANDARD TO THE EXTENT SPECIFIED HEREIN.

INTERCHANGEABILITY

DASH NUMBERS GIVEN ON MS35339 AND THE FOLLOWING DASH NUMBERS OF THIS STANDARD ARE CANCELLED AFTER 21 MARCH 1966. THE CANCELLED WASHERS MAY BE USED UNTIL EXISTING STOCKS ARE DEPLETED. USE ONLY THE SUPERSEDING DASH NUMBERS OF MS35340 FOR NEW DESIGN AND REPLACEMENT. REPLACEMENT SHALL BE IN ACCORDANCE WITH TABLE II.

TABLE II

PART NUMBERS						
CANCELED						SUPERSEDED BY MS35340
MS25339			MS35339			
1	20	30	58	1	20	58
2	21	40	59	2	21	59
3	22	41	60	3	22	60
4	23	42	61	4	23	61
5	24	43	62	5	24	62
6	25	44	63	6	25	63
7	26	45	64	7	26	64
8	27	46	65	8	27	65
9	28	47	66	9	28	66
10	29	48	67	10	29	67
11	30	49	68	11	30	68
12	31	50	69	12	31	69
13	32	51	70	13	32	70
14	33	52	71	14	33	71
15	34	53	72	15	34	72
16	35	54	73	16	35	73
17	36	55	74	17	36	74
18	37	56	75	18	37	75
19	38	57	76	19	38	76

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THIS SPECIFICATION IS APPROVED FOR USE BY ALL DEPARTMENTS AND AGENCIES OF THE DEPARTMENT OF DEFENSE.

PREPARING ACTIVITY: DLA-IS CUSTODIANS: ARMY-AR NAVY-AS AIR FORCE-00 DLA- REVIEW: AV, GL, ME, MI, YD USER: AT, SH, OS, YD PROJECT NUMBER: 5310-1897	MILITARY SPECIFICATION SHEET TITLE WASHER, LOCK-HELICAL SPRING, EXTRA DUTY (EXTRA-HEAVY) SERIES	SPECIFICATION SHEET NUMBER MS35340 13 DEC 83 REV F SUPERSEDING MS35340 E 30 MARCH 1990 (SEE NOTE 3.) AMSC- N/A FSC 5310
DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.		Page <u>2</u> of <u>2</u>