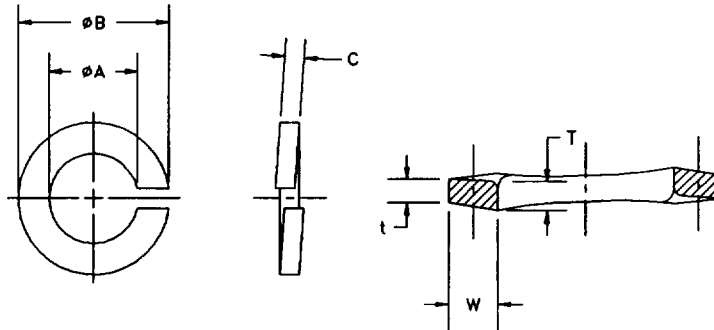


THE REQUIREMENTS FOR ACQUIRING THE PRODUCT(S) DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION SHEET AND THE ISSUE OF THE FOLLOWING SPECIFICATION LISTED IN THAT ISSUE OF THE DODSS SPECIFIED IN THE SOLICITATION: ASME B16.21.1

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

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OMB No. 0704-0188



(C)

TABLE I. DASH NUMBERS AND DIMENSIONS.

DASH NUMBERS		NOMINAL SIZE	ØA ID		ØB OD	W SECTION WIDTH		C MEAN SECTION THICKNESS	T ± t	
HOT DIP ZINC	ELECTRO-PLATED ZINC		MAX	MIN		MAX	MIN		MAX	MIN
	1	NO.6 .138	.148	.141	.250	.047	.037	.031		
	2	NO.8 .164	.174	.167	.293	.055	.046	.040		
	3	NO.10 .190	.200	.193	.334	.062	.053	.047		
	4	NO.12 .216	.227	.220	.377	.070	.062	.056		
	5	1/4 .250	.260	.252	.487	.109	.072	.082		
	6	5/16 .312	.322	.314	.583	.125	.088	.078		
	7	3/8 .375	.385	.377	.680	.141	.104	.094		
	8	7/16 .437	.450	.440	.778	.158	.119	.109		
	24	7/16 .437	.464	.446	.772	.158	.130	.120		
	9	1/2 .500	.512	.502	.869	.171	.135	.125		
17	16	9/16 .562	.574	.564	.965	.188	.151	.141		
18	10	5/8 .625	.641	.628	1.073	.203	.166	.156		
19	11	3/4 .750	.766	.753	1.265	.234	.198	.188		
20	12	7/8 .875	.894	.878	1.459	.266	.239	.219		
21	13	1 1.000	1.024	1.003	1.656	.297	.270	.250		
22	14	1-1/8 1.125	1.153	1.129	1.847	.328	.301	.281		
23	15	1-1/4 1.250	1.280	1.254	2.036	.359	.332	.312		

(C) DENOTES CHANGE(S)

INCH-POUND

PREPARING ACTIVITY: DLA-IS

CUSTODIANS: ARMY- AR NAVY- SH

AIR FORCE- DLA-

REVIEW: AV, GL, NS, MI, YD, 82

USER: MC, ME, YD

PROJECT NUMBER: 5310-1896

MILITARY SPECIFICATION SHEET

TITLE
WASHER, LOCK-HELICAL SPRING,
REGULAR (MEDIUM) SERIES

SPECIFICATION SHEET NUMBER

MS51415 13 DEC 93
REV C

SUPERSEDING
MS51415 B 20 AUG 87

AMSC- N/A FSC 5310

DISTRIBUTION STATEMENT

A. Approved for public release; distribution is unlimited.

Page 1 of 2

DD Form 672, MAY 88

PREVIOUS EDITIONS ARE OBSOLETE

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.

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REQUIREMENTS:

1. **MATERIAL:** STEEL, CARBON, 1060 THRU 1080 (UNS G10600 THRU UNS G10800), 45-53 HRC IN ACCORDANCE WITH ASTM A510.
2. **FINISH:** ELECTROPLATED ZINC COATED WASHERS SHALL BE IN ACCORDANCE WITH ASTM B633, TYPE II, CLASS Fe/Zn 13.
HOT DIP ZINC COATED WASHERS SHALL BE IN ACCORDANCE WITH ASTM A153, CLASS C.
3. **PART NUMBER:** THE PART NUMBER CONSISTS OF THE BASIC MS SHEET NUMBER PLUS A DASH NUMBER TAKEN FROM TABLE I.

EXAMPLE: MS51415-1

DASH NUMBER

BASIC MS SHEET NUMBER

MS51415-1 INDICATES - WASHER, LOCK-HELICAL SPRING (REGULAR), ELECTROPLATED ZINC COATED, ID .148, OD .250, THICKNESS, .037.

C

4. **PACKAGING:** PACKAGING SHALL BE IN ACCORDANCE WITH ASTM D3951.

NOTES:

1. ALL DIMENSIONS ARE IN INCHES.
2. 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.
3. 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.
4. ELECTROPLATED ZINC COATED WASHERS ARE INTENDED FOR USE IN NON-AEROSPACE, HIGH TEMPERATURE PETROLEUM ENVIRONMENT.

PREPARING ACTIVITY: DLA-IS CUSTODIANS: ARMY- AR NAVY- SH AIR FORCE- DLA- REVIEW: AV, GL, NS, MI, YD, 82 USER: MC, ME, YD PROJECT NUMBER: 5310-1896	MILITARY SPECIFICATION SHEET TITLE WASHER, LOCK-HELICAL SPRING, REGULAR (MEDIUM) SERIES	SPECIFICATION SHEET NUMBER MS51415 13 DEC 93 REV C SUPERSEDING MS51415 B 20 AUG 87 AMSC- N/A FSC 5310
DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.		Page <u>2</u> of <u>2</u>

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