

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 DOORS SPECIFIED IN THE SOLICITATION MIL-N-7873

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

Form Approved  
OMB No 0704-0188

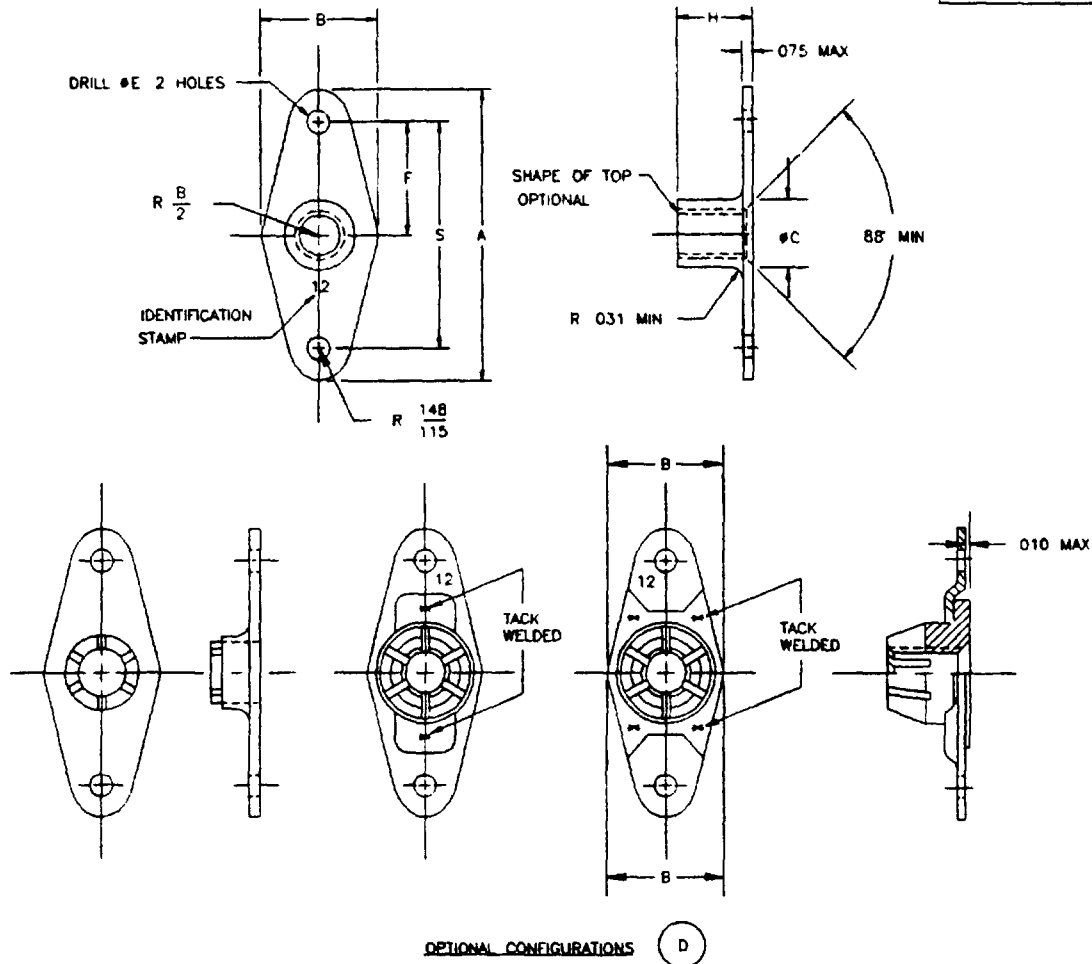


TABLE I

DASH NO	THREAD T	A MAX	B MAX	#C MIN	#E		H		F (a) NOM	S		AXIAL STRENGTH LBS MIN	WEIGHT LBS / 100 MAX
					MAX	MIN	MAX	MIN		MAX	MIN		
632	6-32UNJC-3B	986	407	148	103	098	234	187	344	690	686	1 130	60
832	8-32UNJC-3B	986		174			251	204				1 720	65
1032	10-32UNJF-3B	986		200			251	204				2 460	63
428	1/4-28UNJF-3B	1 298	516	260	103	098	329	280	500	1 002	998	4 580	1 12
524	5/16-24UNJF-3B		532	322	135	130	360	312				7 390	1 60
624	5/8-24UNJF-3B		641	385	135	130	469	406				11 450	2 63

(a) THE CENTER OF THE TAPPED HOLE SHALL NOT DEVIATE BY MORE THAN .005 IN ANY DIRECTION FROM THE CENTER OF THE PLATE NUT AS DETERMINED BY THE RIVET HOLES

D DENOTES CHANGE(S)

INCH-POUND

PREPARING ACTIVITY DLA-IS

CUSTODIANS ARMY- AR

NAVY- AS

AIR FORCE- 99

REVIEW AS, AV, 82

USER

PROJECT NUMBER 5310-1908

DISTRIBUTION STATEMENT

MILITARY SPECIFICATION SHEET

TITLE

NUT, SELF LOCKING, PLATE, TWO LUG,  
1200F, 125 KSI FTU

SPECIFICATION SHEET NUMBER

MS20501

1 DEC 93

REV D

SUPERSEDING

MS20501C 14 JUL 69

AMSC- N/A

FSC 5310

A. Approved for public release, distribution is unlimited

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DD Form 672, MAY 88

PREVIOUS EDITIONS ARE OBSOLETE

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#### REQUIREMENTS

- 1 MATERIAL  
NUT HEAT AND CORROSION RESISTANT STEEL COMPOSITION 347 TYPE 2 (UNS S34723) IN ACCORDANCE WITH AMS 5642 OR COMPOSITION 347 (UNS S34700) PER AMS 5646  
RETAINER HEAT AND CORROSION RESISTANT STEEL COMPOSITION 321 (UNS S32100) IN ACCORDANCE WITH AMS 5510 OR COMPOSITION A286 (UNS S66286) PER AMS 5525
- 2 FINISH  
NUT SILVER PLATE IN ACCORDANCE WITH AMS 2411 ON THREADS ONLY OPTIONAL ON OTHER SURFACES  
SHELL PASSIVATE IN ACCORDANCE WITH QQ-P-35 NO SILVER PLATE ON WELD NIBS
- 3 HARDNESS 35HRC, MAX
- 4 DIMENSION AND TOLERANCE SHALL BE IN ACCORDANCE WITH ANSI Y14.5M
- 5 SCREW THREADS SHALL BE IN ACCORDANCE WITH MIL-S-8879 PRIOR TO INCORPORATION OF THE LOCKING FEATURE SCREW THREAD ACCEPTABILITY SHALL BE IN ACCORDANCE WITH FED-STD-H28/20 SYSTEM 21
- 6 SURFACE TEXTURE UNLESS OTHERWISE SPECIFIED, SHALL NOT EXCEED 125 MICROINCHES IN ACCORDANCE WITH ANSI/ASME B46.1
- 7 MAGNETIC PERMEABILITY SHALL BE LESS THAN 2.0 (AIR=1.0) FOR A FIELD STRENGTH H=200 OERSTEDS WHEN TESTED IN ACCORDANCE WITH ASTM A342 METHOD 6
- 8 PART NUMBER THE PART NUMBER SHALL CONSIST OF THE BASIC MS NUMBER FOLLOWED BY A DASH NUMBER FROM TABLE 1 LETTER "W" IN PLACE OF "DASH" INDICATES PROJECTED WELDING NIBS

EXAMPLE MS20501-428

DASH NUMBER

BASIC MS NUMBER

MS20501-428 INDICATES NUT SELF-LOCKING TWO LUG PLATE 125 KSI FTU 1200°F 0.250-28 UNJF-3B PLAIN HOLES

MS20501W428 INDICATES 250-28 NUT FOR USE BY WELDING

#### NOTES

- 1 DIMENSIONS IN INCHES
- 2 BREAK ALL SHARP EDGES AND REMOVE ALL HANGING BURRS AND SLIVERS
- 3 NUT PLATES FOR USE BY WELDING TO BE MADE WITHOUT RIVET HOLES SPACING OF WELDING PROJECTIONS MUST BE EQUAL TO DIMENSION 5 (SEE EXAMPLE OF PART NUMBER FOR ORDERING INFO)
- 4 INSTALLATION SHALL BE IN ACCORDANCE WITH STANDARD MS3358B
- 5 QUALIFIED PRODUCTS ONLY NUTS FOR WHICH THERE ARE QUALIFIED PRODUCTS LISTED ON QPL-7873 SHALL BE USED
- 6 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
- 7 DESIGN AND USAGE LIMITATIONS THESE NUTS ARE DESIGNED TO DEVELOP THE TENSILE STRENGTH OF BOLTS AND SCREWS WITH AN ULTIMATE TENSILE STRENGTH OF 125 KSI BASED ON A CROSS SECTIONAL AREA AT THE BASIC ROOT DIAMETER OF THE THREAD THESE NUTS ARE DESIGNED TO BE USED ON CLASS 3A FIT THREADS THESE NUTS SHALL BE USED IN ACCORDANCE WITH THE LIMITATIONS OF MS3358B
- 8 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

PREPARING ACTIVITY DLA-PS CUSTODIANS ARMY- AR NAVY- AS AIR FORCE- 99 REVIEW AS, AV, 82 USER PROJECT NUMBER 5310-1908	MILITARY SPECIFICATION SHEET TITLE NUT, SELF LOCKING, PLATE TWO LUG, 1200°F, 125 KSI FTU	SPECIFICATION SHEET NUMBER MS20501 1 DEC 93 REV D SUPERSEDING MS20501C 14 JUL 89 AMSC- N/A FSC 5310
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