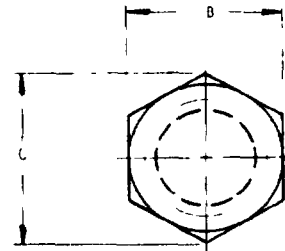


STYLE A                      STYLE B                      ELLIPTICAL LOCK  
EITHER STYLE A OR B TO BE SUPPLIED AT MANUFACTURER'S OPTION

SEGMENTED BEAM LOCK



TYPICAL END VIEW

NOTE

CONFIGURATION OF NUT OPTIONAL  
LIMITATIONS IMPOSED ONLY ON  
DIMENSIONS AND REQUIREMENTS  
SPECIFIED HEREIN. SEE EXAMPLE  
OF PART NUMBERS.

DASH NOS	(a) THREAD MIL S-8879	(c) A		(c) B		C	D O1A ± 020	F MIN	X	AXIAL STRENGTH BS MIN	WEIGHT LBS/100 REF	K DIA MIN
		MAX	MIN	MAX	MIN							
C04	1125-40UNJC-3B	157	133	251	243	268	136	044	004	750	15	223
C06	1380-32UNJC-3B	188	160	313	305	339	161	072	004	1,130	30	285
C08	1640-32UNJC-3B	250	219	345	336	374	188	091	004	1,720	50	316
C3	1900-32UNJF-3B	250	208	376	367	410	210	085	004	2,460	58	347
C4	2500-20UNJF-3B	328	240	439	430	482	273	116	005	4,580	99	410
C5	3125-24UNJF-3B	360	271	502	492	552	336	123	006	7,390	140	472
C6	3750-24UNJF-3B	469	318	564	553	622	398	153	006	11,450	215	533
C7	4375-20UNJF-3B	469	435	690	679	766	467	178	007	15,450	340	659
C8	5000-20UNJF-3B	610	575	752	741	837	531	221	007	21,110	470	721
C9	5625-18UNJF-3B	704	623	877	865	978	594	243	008	26,810	780	865
C10	6250-18UNJF-3B	766	732	940	928	1,051	656	274	008	34,130	950	908
C12	7500-16UNJF-3B	891	855	1,064	1,052	1,191	787	316	009	50,020	1360	1,032
C14	8750-14UNJF-3B	1,016	985	1,252	1,239	1,405	918	370	010	68,440	2100	1,219
C16	1,0000-12UNJF-3B	1,141	1,010	1,440	1,427	1,615	1,044	435	011	92,180	3100	1,407
C18	1,1250-12UNJF-3R	1,266	1,130	1,627	1,614	1,826	1,171	510	012	116,700	4600	1,594
C20	1,2500-12UNJF-3B	1,454	1,300	1,814	1,801	2,038	1,295	595	014	147,940	6500	1,781

- (a) THREADS IN ACCORDANCE WITH MIL-S-8879
- (b) BEARING SURFACE (DIA K) SHALL BE SQUARE WITH PITCH DIAMETER WITHIN X WHEN MEASURED IN ACCORDANCE WITH MIL-N-2502
- (c) DIMENSIONS ACROSS FLATS MAY INCLUDE DEFORMATION OF SELF-LOCKING DEVICE

(D) DENOTES HANGERS

<b>PA</b> <b>NAVY - AS</b> <b>Other Cust</b> <b>ARMY - AR</b> <b>USAF - 99</b>	<b>TITLE</b>  NUT SELF LOCKING HEXAGON REGULAR HEIGHT ROOM 125 KSI HTU	<b>MILITARY STANDARD</b>	
		<b>MS21046</b>	
<b>PROCUREMENT SPECIFICATION</b> MIL-N-25027	<b>SUPERSEDES</b> IN PART ANJ61 AND HAS1021 (SEE STATUS NOTE)	<b>SHEET</b> 1	<b>OF</b> 2

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 AMSC N/A

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USER SYMBOLS  
 ARMY - GL  
 NAVY - OS,SH

REVIEWER SYMBOLS  
 ARMY - M, ER, AV, AT  
 USAF - 11, B2

FED SUPCLASS  
5310USER SYMBOLS  
ARMY - CL  
NAVY - OS, SHREVIEW SYMBOLS  
ARMY - NI, ER, AV, AT  
USAF - II, BZ

- (C) MATERIALS CORROSION RESISTANT STEEL TYPE 303 (UNS S30300) PER ASTM A194  
CORROSION RESISTANT STEEL TYPE XM-7 (UNS S30430) PER ASTM A493  
CORROSION RESISTANT STEEL TYPE 305 (UNS S30500) PER ASTM 5640  
CORROSION RESISTANT STEEL TYPE A286 (UNS S66286) PER ASTM A453
- PLATING SILVER PLATE ALL THREADED SURFACES ON NUT PER AME 2410. THREADS SHALL SHOW COMPLETE COVERAGE. PLATING ON ALL OTHER SURFACES OPTIONAL. TARNISHING OR DISCOLORATION OF SILVER NOT CAUSE FOR REJECTION.
- (D) MAGNETIC PERMEABILITY IN ACCORDANCE WITH MIL-N 25027
- (C) BREAK ALL SHARP EDGES AND REMOVE ALL BURRS AND SLIVERS.  
SURFACE ROUGHNESS IN ACCORDANCE WITH ANSI/ASME B46.1 THE SURFACE ROUGHNESS SHALL NOT EXCEED 1/4 MIL ROUNDED DIMENSIONS IN INCHES
- (D) AN ADDITIONAL DASH 5 CODE INDICATES SEGMENTED BEAM LOCK AND " DASH 000" INDICATES ELLIPTICAL BEAM LOCK
- (D) EXAMPLE OF PART NUMBERS
- MS21046C4 2500-28 CORROSION RESISTANT STEEL NUT SILVER PLATED SEGMENTED BEAM LOCK OR ELLIPTICAL LOCK
- MS21046C8S 5000-20 CORROSION RESISTANT STEEL NUT SILVER PLATED SEGMENTED BEAM LOCK
- MS21046C2E 5000-20 CORROSION RESISTANT STEEL NUT SILVER PLATED ELLIPTICAL LOCK
- (D) DESIGN AND USAGE LIMITATIONS THESE NUTS ARE DESIGNED TO DEVELOP THE TENSILE STRENGTH OF BOLTS AND SCREWS WITH AN ULTIMATE STRESS (FTW) OF 125 KSI BASED ON THE CROSS SECTIONAL AREA AT THE BASIC ROOT DIAMETER OF THE THREAD. THESE NUTS ARE DESIGNED TO BE USED ON SA EXTERNAL THREADS. THESE NUTS SHALL BE USED IN ACCORDANCE WITH THE LIMITATIONS OF MS33588
- (D) INTERCHANGEABILITY RELATIONSHIP (STATUS NOTE) MS21046 NUTS CAN REPLACE ALL AN363 AND NAS1021 NUTS OF LIKE MATERIAL, PLATING AND THREAD SIZE.  
ALL AN363 AND NAS1021 NUTS CAN NOT REPLACE MS21046 NUTS.

## INTERCHANGEABILITY TABLE

SEE INTERCHANGEABILITY RELATIONSHIP STATUS NOTE

CANCELLED PART NUMBER		SUBSTITUTIVE PART NUMBER		CANCELLED PART NUMBER		SUBSTITUTIVE PART NUMBER	
AN363	NAS1021	MS21046		AN363	NAS1021	MS21046	
	C04	C04		C04		NO REPLACEMENT	
C632	C06	C06		C820	C08	C08	
C832	C08	C08		C912		NO REPLACEMENT	
C1024		NO REPLACEMENT		C928	C09	C09	
C1032	C03	C03		C1011		NO REPLACEMENT	
C420		NO REPLACEMENT		C1018	C10	C10	
C426	C4	C4		C210		NO REPLACEMENT	
C518		NO REPLACEMENT		C116	C12	C12	
C524	C5	C5			C14	C14	
C616		NO REPLACEMENT			C16	C16	
C624	C6	C6			C17	NO REPLACEMENT	
C714		NO REPLACEMENT			C18	C18	
C720		NO REPLACEMENT			C20	C20	
	C7	C7					

BIDS SHALL BE SOLICITED ONLY FROM THE MANUFACTURERS LISTED ON DPL-25027

- (C) IN THE EVENT OF A CONFLICT BETWEEN THE TEXT OF THIS STANDARD AND THE REFERENCES LISTED HEREIN THE TEXT OF THIS STANDARD SHALL TAKE PRECEDENCE
- (D) REFERENCED GOVERNMENT (OR NON GOVERNMENT) DOCUMENTS OF THE ISSUE LISTED IN THAT ISSUE OF THE DEPARTMENT OF DEFENSE INDEX OF SPECIFICATIONS AND STANDARDS (DoDSS) SPECIFIED IN THE SOLICITATION FORM A PART OF THIS STANDARD TO THE EXTENT SPECIFIED HEREIN

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AMSC N/A

PA  
NAVY - AS  
Other Cust  
ARMY - AR  
USAF - 99

PROCUREMENT SPECIFICATION  
MIL-N-25027

TITLE  
NUT, SELF-LOCKING, HEXAGON-REGULAR HEIGHT,  
800°F 125 KSI FTW

SUPERSEDES IN PART AN363 AND NAS1021  
(SEE STATUS NOTE)

MILITARY STANDARD  
MS21046

SHEET 4 OF 7

REVISED (D) FOR CHANGES SEE SHEETS 1 AND 2  
APPROVED 23 AUG 61