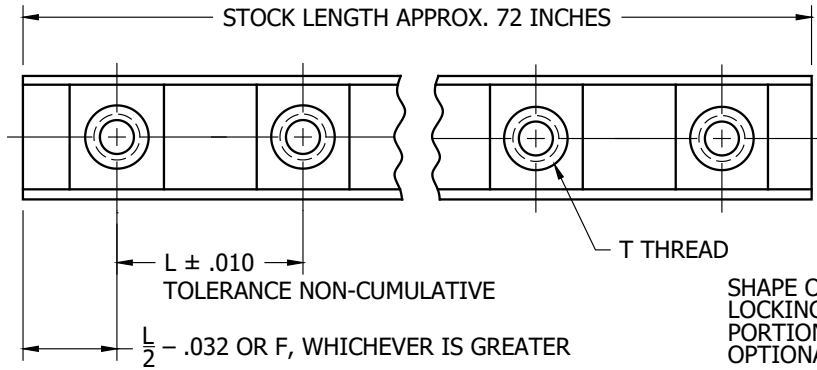




FED. SUPPLY CLASS

5310

CONFIGURATION OF NUT OPTIONAL WITHIN THE LIMITATIONS IMPOSED BY DIMENSIONS AND REQUIREMENTS AS SPECIFIED HEREIN.

SHAPE OF LOCKING PORTION OPTIONAL

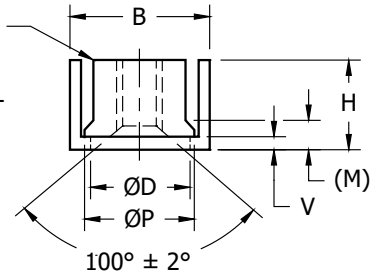


TABLE I – DASH NUMBERS AND DIMENSIONS

FIRST DASH NO.		T THREAD SIZES	B MAX	ØD MIN	F MIN	H MAX /6/	L MIN SPACING AVAILABLE	(M)	ØP /7/		V MAX	AXIAL STRENGTH LBF MIN	WEIGHT	
NON-DRY FILM LUBE	DRY FILM LUBE								MIN	MAX			NUT ELEMENT LBS/100	CHANNEL LBS/INCH
-08	L08	.1640-32 UNJC-3B	.593	.360	.406	.272	.750	.084	.385	.491	.035	1,720	.24	.0080
-3	L3	.1900-32 UNJF-3B	.593	.406	.406	.281	.750	.093	.431	.491	.035	2,460	.26	.0080
-4	L4	.2500-28 UNJF-3B	.874	.509	.562	.340	1.000	.107	.560	.620	.045	4,580	.60	.0100

MATERIAL:

NUT ELEMENT:

CARBON STEEL – 1035 (UNS G10350), 1040 (UNS G10400) AND 1050 (UNS G10500) PER ASTM A29/A29M, ASTM A827/A827M OR QQ-S-700 AMS-QQ-S-700; 1042 (UNS G10420) PER ASTM A29/A29M.

ALLOY STEEL – 4130 (UNS G41300), 4340 (UNS G43400) AND 8740 (UNS G87400) PER ASTM A29/A29M.

(2)

CHANNEL:

CRES – A286, (UNS S66286) PER AMS5525, AMS5732 OR AMS5737; TYPE 321 (UNS S32100) PER AMS5510.

HEAT TREATMENT:

NUT ELEMENTS SHALL HAVE A HARDNESS OF 49 HRC MAX.

FINISH:

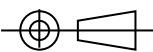
NUT ELEMENTS – CADMIUM PLATE IN ACCORDANCE WITH AMS-QQ-P-416, TYPE II, CLASS 2. DRY FILM LUBRICATED NUT ELEMENTS IN ACCORDANCE WITH AMS-QQ-P-416, TYPE AND CLASS ARE OPTIONAL IF THE NUT ELEMENTS MEET THE SALT SPRAY REQUIREMENTS OF AMS-QQ-P-416, TYPE II.

(2)

CHANNEL – PLAIN (PASSIVATED).

THE INITIAL RELEASE OF THIS DOCUMENT SUPERSEDES MS21067, REVISION G. PART NUMBERS REMAIN MS21067.

THIRD
ANGLE
PROJECTION



CUSTODIAN

NATIONAL AEROSPACE STANDARDS COMMITTEE

REVISION

2

PROCUREMENT
SPECIFICATION

NASM25027

TITLE

**NUT, SELF-LOCKING GANG CHANNEL, 100° CSK,
FLOATING, LOW HEIGHT, STEEL, 125 KSI Ft_u, 450 °F**

CLASSIFICATION
PART STANDARD

NASM21067

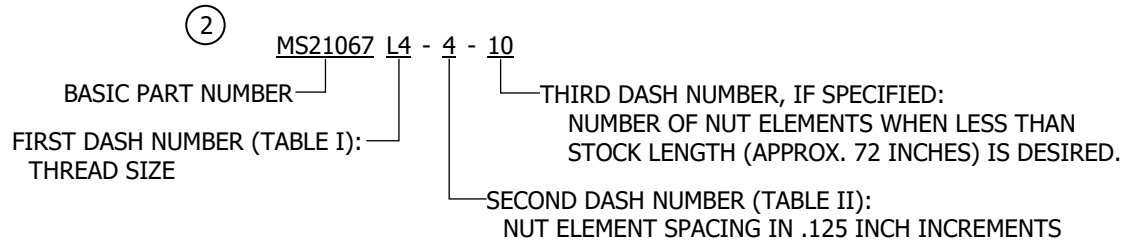
SHEET 1 OF 4

USE OF OR RELIANCE UPON THIS DOCUMENT OR ANY NATIONAL AEROSPACE STANDARD IS ENTIRELY VOLUNTARY. AIA DOES NOT QUALIFY SUPPLIERS OR CERTIFY CONFORMANCE OF ITEMS PRODUCED UNDER NATIONAL AEROSPACE STANDARDS. AIA MAKES NO REPRESENTATION OR CLAIM RESPECTING (1) THE SUITABILITY OF ITEMS FOR ANY PARTICULAR APPLICATION OR (2) THE EXISTENCE OF OR APPLICABILITY THERETO OF PATENT OR TRADEMARKS RIGHTS.

LUBRICATION:

- (2) DRY FILM LUBRICANT ON NUT ELEMENT ONLY, APPROVED IN ACCORDANCE WITH NASM25027. NON-DRY FILM LUBRICANTS SHALL BE SOLUBLE IN CLEANER SPECIFIED IN AMS-S-8802.

CODE:



EXAMPLES OF PART NUMBER:

- (2) MS21067-3-6 = NUT, SELF-LOCKING GANG CHANNEL, 100° CSK, FLOATING, LOW HEIGHT, STEEL; 125 KSI Ft_u, 450 °F; GANG CHANNEL ASSEMBLY CONSISTING OF NINETY-SIX .1900-32 UNJF-3B, CADMIUM PLATED NUT ELEMENTS SPACED AT .750 INCHES.
- MS21067L4-7-10 = NUT, SELF-LOCKING GANG CHANNEL, 100° CSK, FLOATING, LOW HEIGHT, STEEL; 125 KSI Ft_u, 450 °F; GANG CHANNEL ASSEMBLY CONSISTING OF TEN .2500-28 UNJF-3B, CADMIUM PLATED DRY FILM LUBRICATED NUT ELEMENTS, SPACED AT .875 INCHES.

NOTES:

- (1) DIMENSIONS IN INCHES AND APPLY AFTER FINISH AND PRIOR TO THE APPLICATION OF LUBRICATION UNLESS OTHERWISE SPECIFIED.
- (2) THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.
- (3) 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.
- (2) (4) DESIGN AND USAGE LIMITATIONS: THESE NUTS ARE DESIGNED TO DEVELOP THE TENSILE STRENGTHS OF BOLTS AND SCREWS WITH AN ULTIMATE TENSILE STRENGTH OF 125 KSI BASED ON THE CROSS SECTION AREA AT THE BASIC ROOT DIAMETER OF THE THREADS. THESE NUTS ARE DESIGNED TO BE USED ON 3A EXTERNAL THREADS. THESE NUTS SHALL BE USED IN ACCORDANCE WITH THE LIMITATIONS OF NASM33588. ~~ONLY NUTS FOR WHICH THERE ARE QUALIFIED PRODUCTS LISTED ON QPL 25027 SHALL BE USED.~~
- (5) NASM21067 SUPERSEDES NAS693 THRU 695, NAS1039 THRU 1041 IN PART.
- /6/ "H" MAX APPLIES TO NUT ELEMENT AND CHANNEL. MIN "H" NOT SPECIFIED. LIMITED ONLY BY STRENGTH REQUIREMENTS OF SPECIFICATION.
- /7/ HOLE IN CHANNEL MUST PROVIDE FOR FULL FLOAT OF NUT ELEMENT BUT NEED NOT BE CIRCULAR.
- (8) THREADS BEFORE LUBRICATION IN ACCORDANCE WITH AS8879.
- (9) SURFACE ROUGHNESS SHALL NOT EXCEED 125 MICROINCHES Ra PER ASME B46.1.

REVISION

2

NASM21067

SHEET 2



Document Sharing Hub

USE OF OR RELIANCE UPON THIS DOCUMENT OR ANY NATIONAL AEROSPACE STANDARD IS ENTIRELY VOLUNTARY. AIA DOES NOT QUALIFY SUPPLIERS OR CERTIFY CONFORMANCE OF ITEMS PRODUCED UNDER NATIONAL AEROSPACE STANDARDS. AIA MAKES NO REPRESENTATION OR CLAIM RESPECTING (1) THE SUITABILITY OF ITEMS FOR ANY PARTICULAR APPLICATION OR (2) THE EXISTENCE OF OR APPLICABILITY THERETO OF PATENT OR TRADEMARKS RIGHTS.