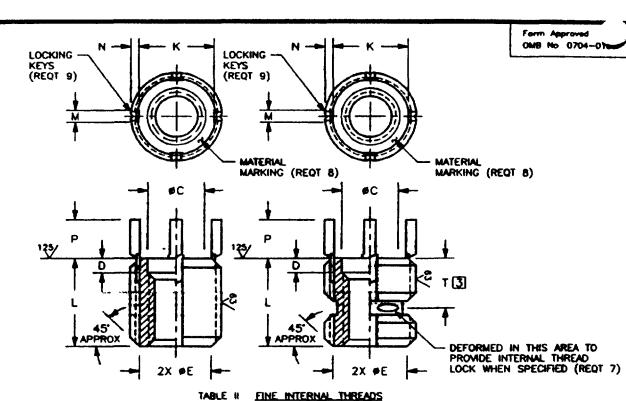


¥



DASH NO.	INTERNAL THREAD MIL-S-8879	EXTERNAL THREAD FED-STD-H28/2 EXCEPT MODIFIED MINOR DIA.		•C	D	٥E	к	L	KEY	DIMENS	SIONS	т
	UNUF-38	SIZE	#MINOR	±.005	±.010	REF	REF	± 015	M	N REF	P REF	±A
201	.190-32	.375-16UNC-2A	.320 .312	.196	070	.310	.284	.312	.068	.040	.130	.22
202	.250-28	.4375-14UNC-2A	383 375	.257	070	.375	.344	.375	.088	.040	.190	.22
203	3125-24	.500-13UNC-2A	440 .432	.316	.070	.430	.407	437	.068	.040	.190	.22
204	.375-24	.5625-12UNC-2A	503 .495	.380	.070	.495	469	.500	.068	.040	.190	.25
205	4375-20	625-11UNC-2A	565 .551	445	100	550	532	625	.068	040	190	.28
206	500-20	6875-11NS-2A	625 .615	507	100	615	.595	688	.068	040	.190	.28
207	.5625-18	.8125-16UN-2A	.752 .744	.580	100	745	720	812	.068	940	.190	.32
208	.625-18	.875-14UNF-2A	.815 .807	.640	.100	.805	.782	.875	.068	.040	.190	.33
209	.750-16	1.125-12UNF-2A	1.050 1.040	.763	.100	1.040	.975	1.125	.103	.070	.250	
209L	.750-16	1.125-12UNF-2A	1 050 1.040	.763	.100	1.040	.975	1.250	.103	.070	.250	.49
210	875-14	1.250-12UNF-2A	1 175 1 165	.888	.100	1.165	1.100	1.250	.103	.070	.250	
210L	.875-14	1.250-12UNF-2A	1.175 1 165	.888	100	1.165	1 100	1.375	103	.070	250	.49
211	1.000-12	1.375-12UNF-2A	1 300 1.290	1.015	100	1.290	1.225	1.375	.103	.070	250	
211L	1.000-12	1.375-12UNF-2A	1.300 1.290	1.015	.100	1.290	1.225	1.500	.103	.070	.250	.55

ARMY-AR CUSTODIANS: APMY- AR NAVY- AS

AR FORCE- 99 OLA-

REVIEW: AV, SH, 82, IS, NS USER: AT, GL, MC PROJECT NUMBER 5340-2052 MILITARY SPECIFICATION SHEET

INSERT, SCREW-THREAD, LOCKED IN, KEY-LOCKED, HEAVY DUTY

SPECIFICATION SHEET NUMBER

MS51831F 9 MAR 92

SUPERSEDING

MS51831E 6 SEPT 85

N/A FBC- 5340 AMSC-

Page 2 of 3

DISTRIBUTION STATEMENT A Approved for public release, distribution is unlimited

PREVIOUS EDITIONS ARE OBSOLETE

ON IS APPROVED DETENSE. THE SPECIFICATION DEPARTMENT OF DE REQUIREMENTS

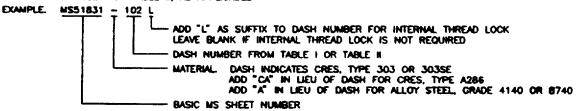
MATERIAL, STEEL, CORROSION-RESISTANT, TYPE 303 (UNS \$30300) IN ACCORDANCE WITH AMS 5640 (TYPE 2), AMS 5738 OR ASTM A 582 ASTM A 582 AMS 5737 OR AMS 5737 STEEL, CORROSION-RESISTANT, TYPE 303 (UNS \$30300) IN ACCORDANCE WITH AMS 5640 (TYPE 1) OR STEEL, CORROSION-RESISTANT, TYPE A286 (UNS S66286) IN ACCORDANCE WITH AMS 5734 OR AMS 5737 STEEL, ALLOY, GRADE 4140 (UNS G41400) IN ACCORDANCE WITH MIL-S-5626 OR GRADE 8740 (UNS G87400) IN ACCORDANCE WITH AMS 6322 LOCKING KEYS STEEL, CORROSION-RESISTANT, TYPE 302 CHEMICAL COMPOSITION OF ASTM A 580 ONLY

Form Approved OMB No 0704-0188

Page 3 of 3

CADMIUM PLATING AND SURFACE TREATMENT, CORROSION-RESISTANT STEEL SHALL BE PASSIVATED IN ACCORDANCE WITH QQ-P-35 ALLOY STEEL SHALL BE CADMIUM PLATED IN ACCORDANCE WITH 00-P-418, TYPE II, CLASS 3. THE LOCKING KEYS MAY OR MAY NOT BE CADMIUM PLATED

- INSERTS WITH SELF-LOCKING INTERNAL THREADS SHALL BE DRY FILM LUBRICATED IN ACCORDANCE LUBRICATIONS WITH MIL-L-48010, TYPE I. THE LOCKING KEYS MAY OR MAY NOT BE LUBRICATED
- SURFACE TEXTURE. MACHINED SURFACES SHALL BE IN ACCORDANCE WITH ANSI/ASME B46 1
- HEAT TREATMENT, ALLOY STEEL INSERTS SHALL BE HEAT TREATED TO 160,000 pm Ftu MINIMUM IN ACCORDANCE WITH MIL-H-6875 CORROSION-RESISTANT STEEL INSERTS, TYPE A286 (AMS 5734), SHALL BE HEAT TREATED TO 140,000 pm Ftu MINIMUM
- 6. HARDNESS ALLOY STEEL INSERTS SHALL HAVE A HARDNESS RANGE OF 36-40 HRC CORROGION-RESISTANT STEEL INSERTS, TYPE A286, SHALL HAVE A HARDHESS RANGE OF 29-38 HRC.
- 7. PART NUMBER. THE PART NUMBER SHALL CONSIST OF THE BASIC MS SHEET NUMBER PLUS THE DASH NUMBER TAKEN FROM TABLE I OR TABLE II, AS APPLICABLE



EXAMPLE. MS51831CA102L INDICATES — INSERT, SCREW-THREAD, LOCKED IN, KEY-LOCKED, HEAVY DUTY, CRES A286, .250-20UNJC-38 INTERNAL THREAD WITH INTERNAL THREAD LOCK FEATURE

- 8. MATERIAL MARKING. CRES 303 OR 303SE HAS NO IDENTIFYING MARK. CRES A286 SHALL BE IDENTIFIED ON TOP OF INSERT BY ONE (1) LINE OR DASH MARK. ALLOY STEEL 4140 OR 8740 SHALL BE IDENTIFIED ON TOP OF INSERT BY TWO (2) PARALLEL LINES OR DASH MARKS
- INSERTS WITH INTERNAL THREAD SIZE 250 AND SMALLER SHALL BE SUPPLIED WITH TWO (2) LOCKING KEYS SPACED 180' APART INSERTS WITH INTERNAL THREAD SIZE 3125 AND GREATER SHALL BE SUPPLIED WITH FOUR (4) LOCKING KEYS SPACED 90' APART
- INSERTS SHALL BE FREE OF ALL HANGING BURRS AND SLIVERS WHICH MIGHT BECOME DISLODGED UNDER USAGE
- SOURCE IDENTIFICATION MARK, SOURCE IDENTIFICATION MARK SHALL BE IN ACCORDANCE WITH MIL-1-45914
- 12. ALL DIMENSIONS ARE AFTER CADMIUM PLATING OR SURFACE TREATMENT AND PRIOR TO THE ADDITION OF THE LUBRICATION
- 13. FILLETS ARE R.015 MAXIMUM.

NOTES

- 1. ALL DIMENSIONS ARE IN INCHES
- INSTALLATION OF INSERTS SHALL BE IN ACCORDANCE WITH MS51835
- 3 DISTANCE TO CENTER OF INTERNAL THREAD LOCK.
- 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.
- 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: ARMY—AR CUSTODIANS: ARMY— AR NAVY— AS	MILITARY SPECIFICATION SHEET TITLE	MS51831F 9 MAR 92				
AIR FORCE- 99 DLA- REVIEW: AV, SH, 82, IS, NS	INSERT, SCREW-THREAD, LOCKED IN. KEY-LOCKED.	SUPERSEDING MS51831E 6 SEPT 85				
USER. AT, GL, MC PROJECT NUMBER 5340-2052	HEAVY DUTY	AMSC- N/A FSC-5340				
DICTRICULATION CONTRACTOR						

Approved for public release, distribution is unlimited DD Form 672, MAY 88