

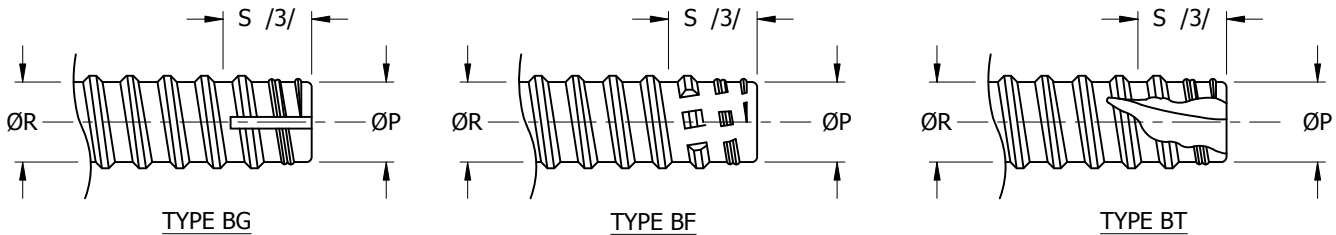
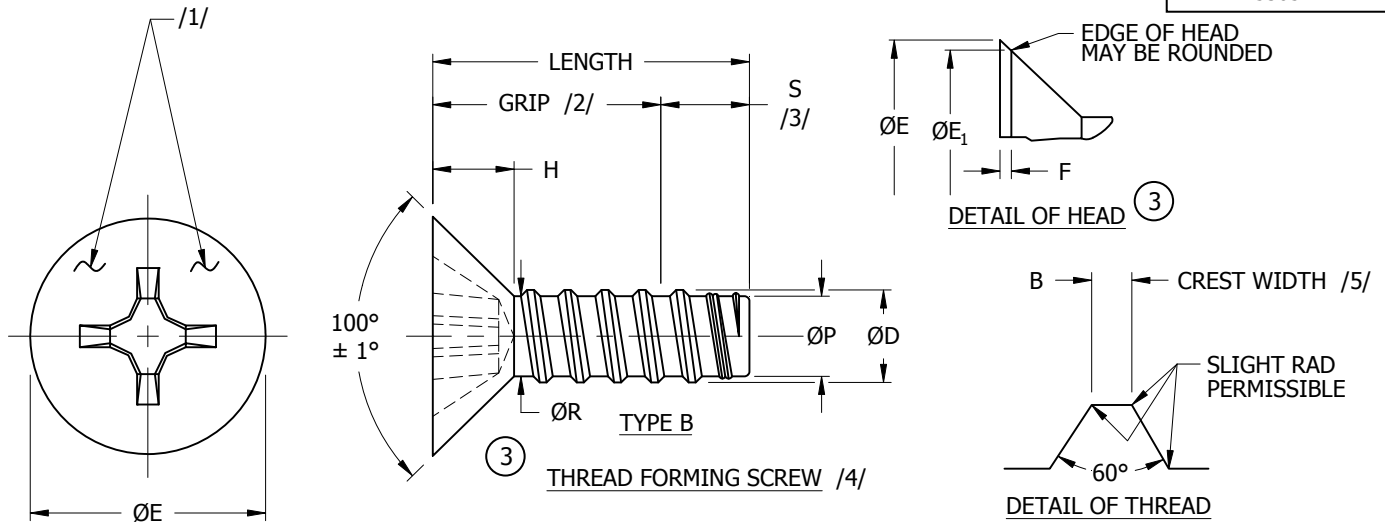
FED. SUPPLY CLASS

5305

AEROSPACE INDUSTRIES ASSOCIATION OF AMERICA, INC.
1000 WILSON BLVD.
ARLINGTON, VA 22209

THIS DRAWING SUPERSEDES ALL ANTECEDENT STANDARD DRAWINGS FOR THE SAME
PRODUCT AND SHALL BECOME EFFECTIVE NO LATER THAN SIX MONTHS FROM THE LAST
REVISION DATE.

FORM 12-01



OPTIONAL TYPES OF ENDS FOR THREAD CUTTING SCREWS /4/

TABLE I – DIMENSIONS

SIZE	THREADS PER INCH	ØD		ØE		ØE ABSOLUTE MIN WITH F MAX	F MAX	H		ØP		ØR		S /3/	
		MAX	MIN	MAX SHARP	MIN SHARP			MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
NO. 4	24	.114	.110	.225	.207	.200	.003	.048	.040	.079	.074	.086	.082	.104	.083
NO. 6	20	.139	.135	.279	.257	.249	.004	.060	.051	.095	.089	.104	.099	.125	.100
NO. 8	18	.166	.161	.332	.308	.300		.072	.062	.112	.106	.123	.116	.139	.111
NO. 10	16	.189	.183	.385	.359	.348	.005	.083	.072	.130	.123	.141	.135	.156	.125
1/4	14	.246	.240	.507	.477	.462	.006	.110	.097	.179	.171	.192	.185	.179	.143

MATERIAL:

CARBON STEEL, CASE HARDENED
CRES, TYPE 410 (UNS S41000), HARDENED.

THE INITIAL RELEASE OF THIS DOCUMENT SUPERSEDES MS21207, REVISION A. PART NUMBERS REMAIN MS21207.

THIRD ANGLE PROJECTION	CUSTODIAN NATIONAL AEROSPACE STANDARDS COMMITTEE	REVISION 3	
		CLASSIFICATION PART STANDARD	
PROCUREMENT SPECIFICATION FF-S-107	TITLE SCREW, TAPPING, 100° FLAT HEAD, SPACED THREAD	NATIONAL AEROSPACE STANDARD MS21207	
		SHEET 1 OF 5	

REVISION DATE: JUNE 30, 2015

ISSUE DATE: MARCH 2000

FINISH:

CARBON STEEL, CADMIUM PLATING PER AMS-QQ-P-416, TYPE II, CLASS 2. ~~PARTS WITH CLASS 3 PLATING MAY BE FURNISHED FROM SUPPLIER'S STOCK UNTIL 1 JANUARY 1975.~~
CRES, PASSIVATE, PER AMS2700, METHOD 1, CLASS 4.

③

CODE:

LETTER "C" BEFORE FIRST DASH NUMBER DESIGNATES CRES SCREWS.
FIRST DASH NUMBER DESIGNATES SCREW DIAMETER
LETTER "F" BETWEEN FIRST AND SECOND DASH NUMBER DESIGNATES SCREWS WITH FLUTED OR SLOTTED ENDS (THREAD CUTTING).
LAST DASH NUMBER DESIGNATES LENGTH IN SIXTEENTHS.

EXAMPLE OF PART NUMBERS:

MS21207-6-8 = NO. 6, CARBON STEEL SCREW, THREAD FORMING, 8/16 IN LENGTH.
MS21207-6F8 = NO. 6, CARBON STEEL SCREW, FLUTED OR SLOTTED END (THREAD CUTTING), 8/16 IN LENGTH.
MS21207C6-8 = NO. 6, CRES SCREW, THREAD FORMING, 8/16 IN LENGTH.
MS21207C6F8 = NO. 6, CRES SCREW, FLUTED OR SLOTTED END (THREAD CUTTING), 8/16 IN LENGTH.

NOTES:

- /1/ MARKING FOR CRES SCREWS: ONLY ONE DASH NEED BE VISIBLE, POSITION OPTIONAL. NO MARKING REQUIRED ON HEADS OF NO. 4 SCREWS. MANUFACTURER'S DESIGNATION MAY BE INCLUDED ON SCREWS.
- /2/ GRIP LENGTH IS MEASURED FROM TOP OF THE HEAD TO END OF FULL THREADED PORTION OF THE SHANK. MINIMUM GRIP DIMENSIONS SHOWN IN DASH NUMBER TABLE ARE FOR DESIGN PURPOSES ONLY AND ARE NOT AN INSPECTION OR MANUFACTURING REQUIREMENT.
- /3/ TAPER LENGTH "S" IS 2 TO 2-1/2 TIMES THE PITCH OF THE THREAD.
- /4/ SCREWS DESIGNATED AS THREAD FORMING, HAVE PLAIN ENDS (NOT FLUTED OR SLOTTED). SCREWS DESIGNATED AS THREAD CUTTING, HAVE FLUTED OR SLOTTED ENDS.
- /5/ MAXIMUM CREST OF WIDTH "B", FOR SIZES UP TO AND INCLUDING SIZE NO. 8 EQUALS .004 INCH; MAXIMUM CREST WIDTH OVER SIZE NO. 8 EQUALS .006 INCH. TAPERED THREADS HAVE UNFINISHED CRESTS.
- (6) RECESS DIMENSIONING AND METHOD OF GAGING SHALL BE IN ACCORDANCE WITH FF-S-92, TYPE III, STYLE 3C, DESIGN I.
- (7) SCREWS HAVING FIVE THREADS OR LESS MAY HAVE FINER PITCH THREADS, OR SHORTER POINTS, OR FINER PITCH THREADS AND SHORTER POINTS.
- (8) DIMENSIONS IN INCHES AND APPLY AFTER FINISH UNLESS OTHERWISE SPECIFIED.
- (9) SUBJECT TO NASM33749 LIMITATIONS, THE SCREWS MAY BE USED AS TAPPING SCREWS WITH AND10325 HOLE SIZES AND AND10387 HOLE TOLERANCES.
- (10) SUBJECT TO NASM33749 LIMITATIONS, THE THREAD FORMING SCREWS SHOWN ON THIS DRAWING MAY BE USED WITH SPECIFICATION MIL-N-3337.

REVISION

3

NASM21207
SHEET 2



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