

ASME B18.24a-2006

Addenda to ASME B18.24-2004

Part Identifying Number (PIN)
Code System Standard for
B18 Fastener Products

AN AMERICAN NATIONAL STANDARD



**The American Society of
Mechanical Engineers**

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ASME B18.24a-2006

Following approval by the ASME B18 Standards Committee and after public review, ASME B18.24a-2006 was approved by the American National Standards Institute on December 7, 2006.

Addenda to the 2004 edition of ASME B18.24 are issued in the form of replacement pages. Revisions, additions, and deletions are incorporated directly into the affected pages. It is advisable, however, that this page, the Addenda title and copyright pages, and all replaced pages be retained for reference.

SUMMARY OF CHANGES

This is the first Addenda to be published to ASME B18.24-2004.

Replace or insert the pages listed. Changes given below are identified on the pages by a margin note, **(a)**, placed next to the affected area. The pages not listed are the reverse sides of the listed pages and contain no changes.

<i>Page</i>	<i>Location</i>	<i>Change</i>
3	Sample Table 1-1	Title revised
4–21	Table 1-1	(1) Column head under “Feature” revised through-out (2) Material added under B18.2.6 and B18.9 (3) “B18.16M” revised to read “B18.16.3M;” first and third entries revised; and seventh through ninth entries added (4) “B18.27.6” revised to read “B27.6;” “B18.27.7M” revised to read “B27.7;” and “B18.27.8M” revised to read “B27.8”
22	Table 3-1 Table 3-2	PINs 688, A43, and A31 added (1) PINs 060 and 187 added (2) PIN 010 revised
23	Table 3-3	PINs 07A, 18E, 18F, 20E, 30G, 33G, 36G, and 39G added
25	Table 3-7	(1) Second column head revised (2) PIN 95Y added
26	Table 3-12 Table 3-15	PIN 190 revised PIN 090 added
27	Table 3-16	PIN 15L revised
30	Table 3-22	(1) PINs 078, 094, 125, and A62 added (2) PINs A6N and A6W deleted
31–35.2	Table 3-24	(1) PINs A1N–A8W inserted to replace PINs A2N–A7W (2) Pins B2N–B7W inserted to replace PINs B5N–B5W
	Table 3-25	PINs 31A–62D added

<i>Page</i>	<i>Location</i>	<i>Change</i>
	Table 3-27	PINs 55A–A6D added
	Table 4-1	PINs 094, 172, 203, 234, 266, 297, 328, 390, 422, 453–484, K22, and K27 added
	Table 4-2	PINs 170, 270, 290, 340, 380, 420–K00, 85R, A9R, and C2R–K0R added
	Table 4-5	PINs 250–375, A00, A12, and J50–K00 added
	Table 4-6	(1) Title revised (2) PIN B06 deleted (3) PINs 750–B25, B31, B45, B50, B62, C00, and C38 added
26, 42, 53, 53.1	Table 5-1	(1) ASTM A 31 and ASTM A 502 added (2) “Material” column revised under ASTM A 490 and ASTM A 490M
77	Table 5-3	PINs SN9–SP2 deleted
78-81	Table 5-4	(1) PINs UA2, UD1, UD3, and UE8 deleted (2) PINs UK5 and UK6 added
	Table 5-5	PINs WF1–WF7 added
	Table 5-6	PINs WF8 and WF9 added
92	Table 6-2	ASTM F 2329 added
94	Table 7-2	Revised in its entirety
95	Table 7-11	Revised in its entirety
	Table 7-12	Revised in its entirety
	Table 7-13	PIN I added

(d)

Sample Table 1-1 Fastener Family and Type / Base PIN

(a)

Bolts		Applicable Table References:	Thread	Size	Lg/Other	Material	Finish	Feature	
B18.2.1 Square and Hex Bolts and Screws (Inch Series)		②	Field 2	3	4	5	6	7	
① Base PINs	→ AEB01	Bolts, Square	2-1	3-1	4-1	5-*	6-*	7-1	
	→ AEB02	Bolts, Hex	2-1	3-1	4-1	5-*	6-*	7-1	
	→ AEB03	Bolts, Hex, Heavy	④	2-1	3-1	4-1	5-*	6-*	7-1
	→ AEB04	Bolts, Askew Head	2-1	3-1	4-1	5-*	6-*	7-1	
B18.2.3.5M Metric Hex Bolts			Field 2	3	4	5	6	7	
AEB05 Bolts, Hex			2-1	3-3	4-2	5-*	6-*	7-2	
B18.2.3.6M Metric Heavy Hex Bolts			Field 2	3	4	5	6	7	
AEB06 Bolts, Hex, Heavy			2-1	3-3	4-2	5-*	6-*	7-2	
— —									
— —									
— —									
B18.9 Plow Bolts (Inch Series)			Field 2	3	4	5	6	7	
AEB24 Bolts, Plow No. 3 Regular Head (Round, Countersunk, Square Neck)			2-1	3-1	4-1	5-*	6-*	7-1	
AEB25 Bolts, Plow No. 3 Repair Head (Round, Countersunk, Square Neck)			2-1	3-1	4-1	5-*	6-*	7-1	
AEB26 Bolts, Plow No. 7 Regular Head (Round, Countersunk, Reverse key)			2-1	3-1	4-1	5-*	6-*	7-1	
		③	Field Length = 1, 3, 3, 3, 2, 1,						

① denotes the emboldened Base PIN column of Table 1-1. The Base PIN identifies an individual, top level fastener type from a B18 standard. The Base PIN is comprised of digits 1 through 5.

In our example, the Base PIN is **AEB02** and the unique B18 Fastener PIN is **AEB02C250A50AP1A11**. ② and ③ denote field number and field length, respectively, for subsequent PIN fields. By traversing from left to right from the beginning of Field 2 (digit 6), the user can specify or look up the fastener attributes for any unique Base PIN / top level fastener type.

④ denotes the attribute table number references for fields 2-7 as → 2-1 3-1 4-1 5-* 6-* 7-1. It is from these attribute fields that a unique fastener is described. Having located the appropriate lookup tables for Base PIN =

AEB02, the user would interpret the remainder of the PIN as follows:

Look up the: 1 digit value for Field 2 in Table 2-1
 3 digit value for Field 3 in Table 3-1
 3 digit value for Field 4 in Table 4-1
 3 digit value for Field 5 in Tables 5-1 through 5-7
 2 digit value for Field 6 in Tables 6-1 through 6-4
 1 digit value for Field 7 in Table 7-1

The following is an example for this specific B18 fastener PIN:

Field #	Field Length	Digit Range	Field Value	Table Ref(s)	Attributes Fastener Parameter	Attribute Values Parameter Value
1	5	1-5	AEB02	1-1	→ PIN Spec	ASME B18.24
				1-1	→ PIN Spec Title	PIN Code System Standard For B18 Fastener Products
				1-1	→ Source Document	ASME B18.2.1
				1-1	→ Source Document Title	Square and Hex Bolts and Screws (Inch Series)
				1-1	→ Unit System	Inch
2	1	6	C	2-1	→ Fastener Type	Bolt, Hex
				2-1	→ Thread Configuration	UNC-2
3	3	7-9	250	3-1	→ Size	.250
4	3	10-12	A50	4-1	→ Length / Other Dim	1.500
5	3	13-15	AP4	5-1	→ Material	Carbon Steel
				5-1	→ Material Spec	ASTM A 307, Grade A
6	2	16-17	A1	6-1	→ Finish	Plain, no finish
				6-1	→ Finish Spec	N/A
7	1	18	1	7-1	→ Features	Plain, no additional features

Please note that Tables 4-1 and 4-2 include coverage of Field 4 externally threaded fastener lengths for fasteners with a reduced body diameter (RBD).

ASME B18 Prefix

PIN	Description
AE	ASME B18 PIN

All 18-digit ASME B18 Fastener PINs shall begin with an “AE” prefix. “AE” combined with the next 3 digits shall comprise the Fastener Family and Type/Base PIN. Refer to Table 1-1 to specify/look up the appropriate top level B18 Fastener Family and Type/Base PIN.

B18 Fastener Family

PIN	Description
B	Bolts
E	Inserts
K	Keys and Keysets
M	Screw and Washer Assemblies—Sems
N	Nuts
P	Pins
R	Retaining Rings
S	Screws
T	Studs (Includes Lifting Eyes and Eyebolts)
V	Rivets
W	Washers

The B18 Fastener Family table describes digit 3 of Field 1, which is a total of 5 digits in length. As such, the field values of B18 Fastener Family are included within the Table 1-1 PIN values. This table is presented solely to demonstrate how the user can quickly identify what type of fastener a given PIN describes simply by identifying the third digit in a B18 PIN.

(a) **Table 1-1 Fastener Family and Type / Base PIN**

		Applicable Table References:		Thread	Size	Lg/Other	Material	Finish	Feature
Bolts									
B18.2.1	Square and Hex Bolts and Screws (Inch Series)	Field 2	3	4	5	6	7		
AEB01	Bolts, Square	2-1	3-1	4-1	5-*	6-*	7-2		
AEB02	Bolts, Hex	2-1	3-1	4-1	5-*	6-*	7-2		
AEB03	Bolts, Hex, Heavy	2-1	3-1	4-1	5-*	6-*	7-2		
AEB04	Bolts, Askew Head	2-1	3-1	4-1	5-*	6-*	7-2		
B18.2.3.5M	Metric Hex Bolts	Field 2	3	4	5	6	7		
AEB05	Bolts, Hex	2-1	3-3	4-2	5-*	6-*	7-2		
B18.2.3.6M	Metric Heavy Hex Bolts	Field 2	3	4	5	6	7		
AEB06	Bolts, Hex, Heavy	2-1	3-3	4-2	5-*	6-*	7-2		
B18.2.3.7M	Metric Heavy Hex Structural Bolts	Field 2	3	4	5	6	7		
AEB07	Bolts, Hex, Heavy Structural	2-1	3-3	4-2	5-*	6-*	7-2		
B18.2.3.10M	Metric Square Head Bolts	Field 2	3	4	5	6	7		
AEB08	Bolts, Square	2-1	3-3	4-2	5-*	6-*	7-2		
B18.2.6	Fasteners for Use in Structural Applications (Inch Series)	Field 2	3	4	5	6	7		
AEB09	Bolts, Hex, Heavy Structural	2-1	3-1	4-1	5-*	6-*	7-2		
AEB34	Bolts, Hex, Heavy, Tension Control Structural	2-1	3-1	4-1	5-*	6-*	7-2		
AEB35	Bolts, Round Head, Tension Control Structural	2-1	3-1	4-1	5-*	6-*	7-2		
B18.5	Round Head Bolts (Inch Series)	Field 2	3	4	5	6	7		
AEB10	Bolts, Round Head, (Button Head Bolts)	2-1	3-1	4-1	5-*	6-*	7-2		
AEB11	Bolts, Round, Square Neck (Square Neck Carriage Bolts)	2-1	3-1	4-1	5-*	6-*	7-2		
AEB12	Bolts, Round, Short Square Neck	2-1	3-1	4-1	5-*	6-*	7-2		
AEB13	Bolts, Round, Ribbed Neck (Ribbed Neck Carriage Bolts)	2-1	3-1	4-1	5-*	6-*	7-2		
AEB14	Bolts, Round, Fin Neck (Fin Neck Carriage Bolts)	2-1	3-1	4-1	5-*	6-*	7-2		
AEB15	Bolts, Round, Step	2-1	3-1	4-1	5-*	6-*	7-2		
AEB16	Bolts, Round, Countersunk, Unslotted	2-1	3-1	4-1	5-*	6-*	7-2		
AEB17	Bolts, Round, Countersunk, Slotted	2-1	3-1	4-1	5-*	6-*	7-2		
		<i>Field Length = 1, 3, 3, 3, 2, 1,</i>							

Table 1-1 Fastener Family and Type / Base PIN (Cont'd)

		Applicable Table References:	Thread	Size	Lg/Other	Material	Finish	Feature
Bolts (Cont'd)								
B18.5 Round Head Bolts (Inch Series) (Cont'd)			<i>Field 2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>
AEB18	Bolts, Round, 114 deg, Countersunk, Square Neck (Countersunk Carriage Bolts)		2-1	3-1	4-1	5-*	6-*	7-2
AEB19	Bolts, Round, Elevator, Flat Head, Countersunk		2-1	3-1	4-1	5-*	6-*	7-2
AEB20	Bolts, Round, T Head		2-1	3-1	4-1	5-*	6-*	7-2
B18.5.2.1M Metric Round Head Short Square Neck Bolts			<i>Field 2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>
AEB21	Bolts, Round, Short Square Neck		2-1	3-3	4-2	5-*	6-*	7-2
B18.5.2.2M Metric Round Head Square Neck Bolts			<i>Field 2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>
AEB22	Bolts, Round, Square Neck		2-1	3-3	4-2	5-*	6-*	7-2
B18.5.2.3M Metric Round Head Square Neck Bolts With Large Head			<i>Field 2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>
AEB23	Bolts, Round, Square Neck, Large Head		2-1	3-3	4-2	5-*	6-*	7-2
B18.9 Plow Bolts (Inch Series)			<i>Field 2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>
AEB24	Bolts, Plow No. 3 Regular Head (Round, Countersunk, Square Neck)		2-1	3-1	4-1	5-*	6-*	7-2
AEB25	Bolts, Plow No. 3 Repair Head (Round, Countersunk, Square Neck)		2-1	3-1	4-1	5-*	6-*	7-2
AEB26	Bolts, Plow No. 7 Regular Head (Round, Countersunk, Reverse key)		2-1	3-1	4-1	5-*	6-*	7-2
AEB27	Bolts, Plow No. 7 Repair Head (Round, Countersunk, Reverse key)		2-1	3-1	4-1	5-*	6-*	7-2
AEB28	Bolts, Plow, Square, No. 4 Repair Head (Square Head, Countersunk)		2-1	3-1	4-1	5-*	6-*	7-2
AEB29	Bolts, Plow No. 6 Repair Head (Round, Countersunk, Heavy key)		2-1	3-1	4-1	5-*	6-*	7-2
AEB30	Bolts, Plow, Square, No. 4 Regular Head (Square Head, Countersunk)		2-1	3-1	4-1	5-*	6-*	7-2
AEB31	Bolts, Plow No. 6 Regular Head (Round, Countersunk, Heavy key)		2-1	3-1	4-1	5-*	6-*	7-2
B18.10 Track Bolts and Nuts (Inch Series)			<i>Field 2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>
AEB32	Bolts, Track, Round, Oval Neck (Mushroom Head)		2-1	3-1	4-1	5-*	6-*	7-13
AEB33	Bolts, Track, Round, Elliptic Neck (Mushroom Head)		2-1	3-1	4-1	5-*	6-*	7-13
Inserts								
B18.29.1 Helical Coil Screws Thread Inserts—Free Running and Screw Locking (Inch Series)			<i>Field 2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>
AEE01	Inserts, Helical Coil Screw Thread (Free Running)		2-1	3-1	4-4	5-*	6-*	7-1
AEE02	Inserts, Helical Coil Screw Thread (Screw Locking)		2-1	3-1	4-4	5-*	6-*	7-1
B18.29.2M Metric Helical Coil Screws Thread Inserts—Free Running and Screw Locking			<i>Field 2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>
AEE03	Inserts, Helical Coil Screw Thread (Free Running)		2-1	3-3	4-4	5-*	6-*	7-1
AEE04	Inserts, Helical Coil Screw Thread (Screw Locking)		2-1	3-3	4-4	5-*	6-*	7-1
B18.29.3 Tangless Helical Coil Screws Thread Inserts—Free Running and Screw Locking (Inch Series)			<i>Field 2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>
AEE05	Inserts, Tangless Helical Coil Screw Thread (Free Running)		2-1	3-1	4-4	5-*	6-*	7-1
AEE06	Inserts, Tangless Helical Coil Screw Thread (Screw Locking)		2-1	3-1	4-4	5-*	6-*	7-1
Keys and Keyseats								
B18.25.1M Metric Square and Rectangular Keys and Keyways			<i>Field 2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>
AEK01	Keys, Square Style A		2-1	3-28	4-2	5-*	6-*	7-1
AEK02	Keys, Square Style B		2-1	3-28	4-2	5-*	6-*	7-1
AEK03	Keys, Square Style C		2-1	3-28	4-2	5-*	6-*	7-1
AEK04	Keys, Square Style A, Hardened		2-1	3-28	4-2	5-*	6-*	7-1
AEK05	Keys, Square Style B, Hardened		2-1	3-28	4-2	5-*	6-*	7-1
AEK06	Keys, Square Style C, Hardened		2-1	3-28	4-2	5-*	6-*	7-1
AEK07	Keys, Rectangular Style A		2-1	3-28	4-2	5-*	6-*	7-1
AEK08	Keys, Rectangular Style B		2-1	3-28	4-2	5-*	6-*	7-1
AEK09	Keys, Rectangular Style C		2-1	3-28	4-2	5-*	6-*	7-1
AEK10	Keys, Rectangular Style A, Hardened		2-1	3-28	4-2	5-*	6-*	7-1
AEK11	Keys, Rectangular Style B, Hardened		2-1	3-28	4-2	5-*	6-*	7-1
AEK12	Keys, Rectangular Style C, Hardened		2-1	3-28	4-2	5-*	6-*	7-1
			<i>Field Length = 1, 3, 3, 3, 2, 1,</i>					

Table 1-1 Fastener Family and Type / Base PIN (Cont'd)

Keys and Keyseats (Cont'd)		Applicable Table References:		Thread	Size	Lg/Other	Material	Finish	Feature
		Field 2		3	4	5	6	7	
B18.25.2M Metric Woodruff Keys and Keyways									
AEK13	Keys, Woodruff, Normal Form	2-1	3-29	4-2	5-*	6-*	7-1		
AEK14	Keys, Woodruff, Whitney Form	2-1	3-29	4-2	5-*	6-*	7-1		

Screw and Washer Assemblies—Screw Component

B18.13 Screw and Washer Assemblies (Inch Series)		Field 2		3	4	5	6	7	
AEM01	Sems, Hex Cap Screw	2-1	3-1	4-1	5-*	6-*	7-9		
AEM14	Sems, Hex Socket Head Cap Screw	2-1	3-1	4-1	5-*	6-*	7-9		
AEMC0	Sems, Flat Head Machine Screw, Slotted	2-1	3-1	4-1	5-*	6-*	7-9		
AEMC1	Sems, Flat Head Machine Screw, Type I Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9		
AEMC2	Sems, Flat Head Machine Screw, Type IA Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9		
AEMC3	Sems, Flat Head Machine Screw, Type II Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9		
AEMC4	Sems, Flat Head Machine Screw, Type III Square Recess	2-1	3-1	4-1	5-*	6-*	7-9		
AEMC5	Sems, 100 Deg Flat Head Machine Screw, Slotted	2-1	3-1	4-1	5-*	6-*	7-9		
AEMC6	Sems, 100 Deg Flat Head Machine Screw, Type I Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9		
AEMC7	Sems, 100 Deg Flat Head Machine Screw, Type IA Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9		
AEMC8	Sems, 100 Deg Flat Head Machine Screw, Type II Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9		
AEMC9	Sems, 100 Deg Close Tolerance Machine Screw, Slotted	2-1	3-1	4-1	5-*	6-*	7-9		
AEMD0	Sems, 100 Deg Close Tolerance Machine Screw, Type I Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9		
AEMD1	Sems, 100 Deg Close Tolerance Machine Screw, Type IA Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9		
AEMD2	Sems, 100 Deg Close Tolerance Machine Screw, Type II Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9		
AEMD3	Sems, Oval Head Machine Screw, Slotted	2-1	3-1	4-1	5-*	6-*	7-9		
AEMD4	Sems, Oval Head Machine Screw, Type I Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9		
AEMD5	Sems, Oval Head Machine Screw, Type IA Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9		
AEMD6	Sems, Oval Head Machine Screw, Type II Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9		
AEMD7	Sems, Oval Head Machine Screw, Type III Square Recess	2-1	3-1	4-1	5-*	6-*	7-9		
AEMD8	Sems, Undercut Flat Head Machine Screw, Slotted	2-1	3-1	4-1	5-*	6-*	7-9		
AEMD9	Sems, Undercut Flat Head Machine Screw, Type I Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9		
AEME0	Sems, Undercut Flat Head Machine Screw, Type IA Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9		
AEME1	Sems, Undercut Flat Head Machine Screw, Type II Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9		
AEME2	Sems, Undercut Flat Head Machine Screw, Type III Square Recess	2-1	3-1	4-1	5-*	6-*	7-9		
AEME3	Sems, Oval Undercut Head Machine Screw, Slotted	2-1	3-1	4-1	5-*	6-*	7-9		
AEME4	Sems, Oval Undercut Head Machine Screw, Type I Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9		
AEME5	Sems, Oval Undercut Head Machine Screw, Type IA Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9		
AEME6	Sems, Oval Undercut Head Machine Screw, Type II Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9		
AEME7	Sems, Oval Undercut Head Machine Screw, Type III Square Recess	2-1	3-1	4-1	5-*	6-*	7-9		
AEME8	Sems, Flat Trim Head Machine Screw, Type I Cross Recess	2-1	3-11	4-1	5-*	6-*	7-9		
AEME9	Sems, Flat Trim Head Machine Screw, Type IA Cross Recess	2-1	3-11	4-1	5-*	6-*	7-9		
AEMF0	Sems, Flat Trim Head Machine Screw, Type II Cross Recess	2-1	3-11	4-1	5-*	6-*	7-9		
AEMF1	Sems, Oval Trim Head Machine Screw, Type I Cross Recess	2-1	3-11	4-1	5-*	6-*	7-9		
AEMF2	Sems, Oval Trim Head Machine Screw, Type IA Cross Recess	2-1	3-11	4-1	5-*	6-*	7-9		
AEMF3	Sems, Oval Trim Head Machine Screw, Type II Cross Recess	2-1	3-11	4-1	5-*	6-*	7-9		
AEMF4	Sems, Pan Head Machine Screw, Slotted	2-1	3-1	4-1	5-*	6-*	7-9		
AEMF5	Sems, Pan Head Machine Screw, Type I Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9		
AEMF6	Sems, Pan Head Machine Screw, Type IA Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9		
AEMF7	Sems, Pan Head Machine Screw, Type II Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9		
AEMF8	Sems, Pan Head Machine Screw, Type III Square Recess	2-1	3-1	4-1	5-*	6-*	7-9		
AEMF9	Sems, Pan Head Machine Screw, Type I Cross Recess with Slot	2-1	3-1	4-1	5-*	6-*	7-9		
AEMG0	Sems, Pan Head Machine Screw, Type IA Cross Recess with Slot	2-1	3-1	4-1	5-*	6-*	7-9		
AEMG1	Sems, Pan Head Machine Screw, Type III Square Recess with Slot	2-1	3-1	4-1	5-*	6-*	7-9		
AEMG2	Sems, Fillister Head Machine Screw, Slotted	2-1	3-1	4-1	5-*	6-*	7-9		
AEMG3	Sems, Fillister Head Machine Screw, Type I Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9		
AEMG4	Sems, Fillister Head Machine Screw, Type IA Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9		
AEMG5	Sems, Fillister Head Machine Screw, Type II Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9		
AEMG6	Sems, Fillister Head Machine Screw, Type III Square Recess	2-1	3-1	4-1	5-*	6-*	7-9		
		<i>Field Length</i> = 1,		3,	3,	3,	2,	1,	

Table 1-1 Fastener Family and Type / Base PIN (Cont'd)**Screw and Washer Assemblies—Screw Component
(Cont'd)**

		Applicable Table References:	Thread	Size	Lg/Other	Material	Finish	Feature
B18.13 Screw and Washer Assemblies (Inch Series) (Cont'd)		<i>Field 2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>	
AEMG7	Sems, Fillister Head Machine Screw, Slotted and Drilled	2-1	3-1	4-1	5-*	6-*	7-9	
AEMG8	Sems, Truss Head Machine Screw, Slotted	2-1	3-1	4-1	5-*	6-*	7-9	
AEMG9	Sems, Truss Head Machine Screw, Type I Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9	
AEMH0	Sems, Truss Head Machine Screw, Type IA Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9	
AEMH1	Sems, Truss Head Machine Screw, Type II Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9	
AEMH2	Sems, Truss Head Machine Screw, Type III Square Recess	2-1	3-1	4-1	5-*	6-*	7-9	
AEMH3	Sems, Truss Head Machine Screw, Type I Cross Recess with Slot	2-1	3-1	4-1	5-*	6-*	7-9	
AEMH4	Sems, Truss Head Machine Screw, Type III Square Recess with Slot	2-1	3-1	4-1	5-*	6-*	7-9	
AEMH5	Sems, Binding Head Machine Screw, Slotted	2-1	3-1	4-1	5-*	6-*	7-9	
AEMH6	Sems, Binding Head Machine Screw, Type I Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9	
AEMH7	Sems, Binding Head Machine Screw, Type IA Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9	
AEMH8	Sems, Binding Head Machine Screw, Type II Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9	
AEMH9	Sems, Binding Head Machine Screw, Type III Square Recess	2-1	3-1	4-1	5-*	6-*	7-9	
AEMJ0	Sems, Indented Regular Hex Head Machine Screw, Unslotted	2-1	3-1	4-1	5-*	6-*	7-9	
AEMJ1	Sems, Indented Regular Hex Head Machine Screw, Slotted	2-1	3-1	4-1	5-*	6-*	7-9	
AEMJ2	Sems, Trimmed Regular Hex Head Machine Screw, Unslotted	2-1	3-1	4-1	5-*	6-*	7-9	
AEMJ3	Sems, Trimmed Regular Hex Head Machine Screw, Slotted	2-1	3-1	4-1	5-*	6-*	7-9	
AEMJ4	Sems, Fully Upset Regular Hex Head Machine Screw, Unslotted	2-1	3-1	4-1	5-*	6-*	7-9	
AEMJ5	Sems, Fully Upset Regular Hex Head Machine Screw, Slotted	2-1	3-1	4-1	5-*	6-*	7-9	
AEMJ6	Sems, Indented Large Hex Head Machine Screw, Unslotted	2-1	3-1	4-1	5-*	6-*	7-9	
AEMJ7	Sems, Indented Large Hex Head Machine Screw, Slotted	2-1	3-1	4-1	5-*	6-*	7-9	
AEMJ8	Sems, Trimmed Large Hex Head Machine Screw, Unslotted	2-1	3-1	4-1	5-*	6-*	7-9	
AEMJ9	Sems, Trimmed Large Hex Head Machine Screw, Slotted	2-1	3-1	4-1	5-*	6-*	7-9	
AEMK0	Sems, Fully Upset Large Hex Head Machine Screw, Unslotted	2-1	3-1	4-1	5-*	6-*	7-9	
AEMK1	Sems, Fully Upset Large Hex Head Machine Screw, Slotted	2-1	3-1	4-1	5-*	6-*	7-9	
AEMK2	Sems, Indented Regular Hex Head Machine Screw, Type I Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9	
AEMK3	Sems, Trimmed Regular Hex Head Machine Screw, Type I Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9	
AEMK4	Sems, Fully Upset Regular Hex Head Machine Screw, Type I Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9	
AEMK5	Sems, Indented Large Hex Head Machine Screw, Type I Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9	
AEMK6	Sems, Trimmed Large Hex Head Machine Screw, Type I Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9	
AEMK7	Sems, Fully Upset Large Hex Head Machine Screw, Type I Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9	
AEMK8	Sems, Indented Hex Washer Head Machine Screw, Unslotted	2-1	3-1	4-1	5-*	6-*	7-9	
AEMK9	Sems, Indented Hex Washer Head Machine Screw, Slotted	2-1	3-1	4-1	5-*	6-*	7-9	
AEML0	Sems, Indented Hex Washer Head Machine Screw, Type I Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9	
AEML1	Sems, Indented Hex Washer Head Machine Screw, Type I Cross Recess with Slot	2-1	3-1	4-1	5-*	6-*	7-9	
AEML2	Sems, Round Washer Head Machine Screw, Slotted	2-1	3-1	4-1	5-*	6-*	7-9	
AEML3	Sems, Round Washer Head Machine Screw, Type I Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9	
AEML4	Sems, Round Head Machine Screw, Slotted	2-1	3-1	4-1	5-*	6-*	7-9	
AEML5	Sems, Round Head Machine Screw, Type I Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9	
AEML6	Sems, Round Head Machine Screw, Type IA Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9	
AEML7	Sems, Round Head Machine Screw, Type II Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9	
AEML8	Sems, Round Head Machine Screw, Type III Square Recess	2-1	3-1	4-1	5-*	6-*	7-9	
AEML9	Sems, Round Head Machine Screw, Type I Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9	
AEMM0	Sems, Round Head Machine Screw, Type IA Cross Recess with Slot	2-1	3-1	4-1	5-*	6-*	7-9	
AEMM1	Sems, Flat Head Tapping Screw, Slotted	2-2	3-6	4-1	5-*	6-*	7-9	
AEMM2	Sems, Flat Head Tapping Screw, Type I Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9	
AEMM3	Sems, Flat Head Tapping Screw, Type IA Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9	
AEMM4	Sems, Flat Head Tapping Screw, Type II Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9	
AEMM6	Sems, 100 Deg Flat Head Tapping Screw, Slotted	2-2	3-6	4-1	5-*	6-*	7-9	
AEMM7	Sems, 100 Deg Flat Head Tapping Screw, Type I Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9	
AEMM8	Sems, 100 Deg Flat Head Tapping Screw, Type IA Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9	
AEMM9	Sems, 100 Deg Flat Head Tapping Screw, Type II Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9	
AEMN0	Sems, Oval Head Tapping Screw, Slotted	2-2	3-6	4-1	5-*	6-*	7-9	
AEMN1	Sems, Oval Head Tapping Screw, Type I Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9	
AEMN2	Sems, Oval Head Tapping Screw, Type IA Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9	
		<i>Field Length = 1, 3, 3, 3, 2, 1,</i>						

Table 1-1 Fastener Family and Type / Base PIN (Cont'd)**Screw and Washer Assemblies—Screw Component (Cont'd)**

		Applicable Table References:		Thread	Size	Lg/Other	Material	Finish	Feature
B18.13 Screw and Washer Assemblies (Inch Series) (Cont'd)		Field 2	3	4	5	6	7		
AEMN3	Sems, Oval Head Tapping Screw, Type II Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9		
AEMN5	Sems, Undercut Flat Head Tapping Screw, Slotted	2-2	3-6	4-1	5-*	6-*	7-9		
AEMN6	Sems, Undercut Flat Head Tapping Screw, Type I Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9		
AEMN7	Sems, Undercut Flat Head Tapping Screw, Type IA Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9		
AEMN8	Sems, Undercut Flat Head Tapping Screw, Type II Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9		
AEMP0	Sems, Undercut Oval Head Tapping Screw, Slotted	2-2	3-6	4-1	5-*	6-*	7-9		
AEMP1	Sems, Undercut Oval Head Tapping Screw, Type I Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9		
AEMP2	Sems, Undercut Oval Head Tapping Screw, Type IA Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9		
AEMP3	Sems, Undercut Oval Head Tapping Screw, Type II Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9		
AEMP5	Sems, Flat Trim Head Tapping Screw, Type I Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9		
AEMP6	Sems, Flat Trim Head Tapping Screw, Type IA Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9		
AEMP7	Sems, Flat Trim Head Tapping Screw, Type II Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9		
AEMP8	Sems, Flat Trim Head Tapping Screw, Type I Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9		
AEMP9	Sems, Flat Trim Head Tapping Screw, Type IA Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9		
AEMQ0	Sems, Flat Trim Head Tapping Screw, Type II Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9		
AEMQ1	Sems, Pan Head Tapping Screw, Slotted	2-2	3-6	4-1	5-*	6-*	7-9		
AEMQ2	Sems, Pan Head Tapping Screw, Type I Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9		
AEMQ3	Sems, Pan Head Tapping Screw, Type IA Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9		
AEMQ4	Sems, Pan Head Tapping Screw, Type II Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9		
AEMQ5	Sems, Pan Head Tapping Screw, Type III Square Recess	2-2	3-6	4-1	5-*	6-*	7-9		
AEMQ9	Sems, Fillister Head Tapping Screw, Slotted	2-2	3-6	4-1	5-*	6-*	7-9		
AEMR0	Sems, Fillister Head Tapping Screw, Type I Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9		
AEMR1	Sems, Fillister Head Tapping Screw, Type IA Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9		
AEMR2	Sems, Fillister Head Tapping Screw, Type II Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9		
AEMR4	Sems, Truss Head Tapping Screw, Slotted	2-2	3-6	4-1	5-*	6-*	7-9		
AEMR5	Sems, Truss Head Tapping Screw, Type I Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9		
AEMR6	Sems, Truss Head Tapping Screw, Type IA Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9		
AEMR7	Sems, Truss Head Tapping Screw, Type II Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9		
AEMS1	Sems, Indented Regular Hex Head Tapping Screw, Unslotted	2-2	3-6	4-1	5-*	6-*	7-9		
AEMS2	Sems, Indented Regular Hex Head Tapping Screw, Slotted	2-2	3-6	4-1	5-*	6-*	7-9		
AEMS3	Sems, Trimmed Regular Hex Head Tapping Screw, Unslotted	2-2	3-6	4-1	5-*	6-*	7-9		
AEMS4	Sems, Trimmed Regular Hex Head Tapping Screw, Slotted	2-2	3-6	4-1	5-*	6-*	7-9		
AEMS5	Sems, Fully Upset Regular Hex Head Tapping Screw, Unslotted	2-2	3-6	4-1	5-*	6-*	7-9		
AEMS6	Sems, Fully Upset Regular Hex Head Tapping Screw, Slotted	2-2	3-6	4-1	5-*	6-*	7-9		
AEMS7	Sems, Indented Large Hex Head Tapping Screw, Unslotted	2-2	3-6	4-1	5-*	6-*	7-9		
AEMS8	Sems, Indented Large Hex Head Tapping Screw, Slotted	2-2	3-6	4-1	5-*	6-*	7-9		
AEMS9	Sems, Trimmed Large Hex Head Tapping Screw, Unslotted	2-2	3-6	4-1	5-*	6-*	7-9		
AEMT0	Sems, Trimmed Large Hex Head Tapping Screw, Slotted	2-2	3-6	4-1	5-*	6-*	7-9		
AEMT1	Sems, Fully Upset Large Hex Head Tapping Screw, Unslotted	2-2	3-6	4-1	5-*	6-*	7-9		
AEMT2	Sems, Fully Upset Large Hex Head Tapping Screw, Slotted	2-2	3-6	4-1	5-*	6-*	7-9		
AEMT3	Sems, Indented Regular Hex Head Tapping Screw, Type I Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9		
AEMT4	Sems, Trimmed Regular Hex Head Tapping Screw, Type I Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9		
AEMT5	Sems, Fully Upset Regular Hex Head Tapping Screw, Type I Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9		
AEMT6	Sems, Indented Large Hex Head Tapping Screw, Type I Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9		
AEMT7	Sems, Trimmed Large Hex Head Tapping Screw, Type I Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9		
AEMT8	Sems, Fully Upset Large Hex Head Tapping Screw, Type I Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9		
AEMT9	Sems, Indented Hex Washer Head Tapping Screw, Unslotted	2-2	3-6	4-1	5-*	6-*	7-9		
AEMU0	Sems, Indented Hex Washer Head Tapping Screw, Slotted	2-2	3-6	4-1	5-*	6-*	7-9		
AEMU1	Sems, Indented Hex Washer Head Tapping Screw, Type I Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9		
AEMU3	Sems, Round Washer Head Tapping Screw, Slotted	2-2	3-6	4-1	5-*	6-*	7-9		
AEMU4	Sems, Round Washer Head Tapping Screw, Type I Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9		
AEMU5	Sems, Round Head Tapping Screw, Slotted	2-2	3-6	4-1	5-*	6-*	7-9		
AEMU6	Sems, Round Head Tapping Screw, Type I Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9		
AEMU7	Sems, Round Head Tapping Screw, Type IA Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9		
AEMU8	Sems, Round Head Tapping Screw, Type II Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9		
AEMV2	Sems, Round Head Tapping Screw, Unslotted	2-2	3-6	4-1	5-*	6-*	7-9		
		<i>Field Length</i> = 1,		3,	3,	3,	2,	1,	

Table 1-1 Fastener Family and Type / Base PIN (Cont'd)**Screw and Washer Assemblies—Screw Component
(Cont'd)**

		Applicable Table References:	Thread	Size	Lg/Other	Material	Finish	Feature
B18.13.1M Metric Screw and Washer Assemblies		Field 2	3	4	5	6	7	
AEM07	Sems, Hex Cap Screw	2-1	3-3	4-2	5-*	6-*	7-9	
AEM43	Sems, Hex Socket Head Cap Screw	2-1	3-3	4-2	5-*	6-*	7-9	
AEMV3	Sems, Flat Head Tapping Screw, Slotted	2-2	3-7	4-2	5-*	6-*	7-9	
AEMV4	Sems, Style A Flat Head Tapping Screw, Type I Cross Recess	2-2	3-7	4-2	5-*	6-*	7-9	
AEMV5	Sems, Style A Flat Head Tapping Screw, Type IA Cross Recess	2-2	3-7	4-2	5-*	6-*	7-9	
AEMV6	Sems, Style A Flat Head Tapping Screw, Type III Cross Recess	2-2	3-7	4-2	5-*	6-*	7-9	
AEMV7	Sems, Style B Flat Head Tapping Screw, Type I Cross Recess	2-2	3-7	4-2	5-*	6-*	7-9	
AEMV8	Sems, Style B Flat Head Tapping Screw, Type IA Cross Recess	2-2	3-7	4-2	5-*	6-*	7-9	
AEMV9	Sems, Style B Flat Head Tapping Screw, Type III Cross Recess	2-2	3-7	4-2	5-*	6-*	7-9	
AEMW0	Sems, Oval Head Tapping Screw, Slotted	2-2	3-7	4-2	5-*	6-*	7-9	
AEMW1	Sems, Oval Head Tapping Screw, Type I Cross Recess	2-2	3-7	4-2	5-*	6-*	7-9	
AEMW2	Sems, Oval Head Tapping Screw, Type IA Cross Recess	2-2	3-7	4-2	5-*	6-*	7-9	
AEMW3	Sems, Oval Head Tapping Screw, Type III Cross Recess	2-2	3-7	4-2	5-*	6-*	7-9	
AEMW4	Sems, Pan Head Tapping Screw, Slotted	2-2	3-7	4-2	5-*	6-*	7-9	
AEMW5	Sems, Pan Head Tapping Screw, Type I Cross Recess	2-2	3-7	4-2	5-*	6-*	7-9	
AEMW6	Sems, Pan Head Tapping Screw, Type IA Cross Recess	2-2	3-7	4-2	5-*	6-*	7-9	
AEMW7	Sems, Pan Head Tapping Screw, Type III Cross Recess	2-2	3-7	4-2	5-*	6-*	7-9	
AEMX1	Sems, Indented Hex Head Tapping Screw, Unslotted	2-2	3-7	4-2	5-*	6-*	7-9	
AEMX3	Sems, Trimmed Hex Head Tapping Screw, Unslotted	2-2	3-7	4-2	5-*	6-*	7-9	
AEMX5	Sems, Fully Upset Hex Head Tapping Screw, Unslotted	2-2	3-7	4-2	5-*	6-*	7-9	
AEMX7	Sems, Hex Flange Head Tapping Screw, Unslotted	2-2	3-7	4-2	5-*	6-*	7-9	
AEMY0	Sems, Flat Head Machine Screw, Slotted	2-1	3-3	4-2	5-*	6-*	7-9	
AEMY1	Sems, Style A Flat Head Machine Screw, Type I Cross Recess	2-1	3-3	4-2	5-*	6-*	7-9	
AEMY2	Sems, Style A Flat Head Machine Screw, Type IA Cross Recess	2-1	3-3	4-2	5-*	6-*	7-9	
AEMY3	Sems, Style A Flat Head Machine Screw, Type III Cross Recess	2-1	3-3	4-2	5-*	6-*	7-9	
AEMY4	Sems, Style B Flat Head Machine Screw, Type I Cross Recess	2-1	3-3	4-2	5-*	6-*	7-9	
AEMY5	Sems, Style B Flat Head Machine Screw, Type IA Cross Recess	2-1	3-3	4-2	5-*	6-*	7-9	
AEMY6	Sems, Style B Flat Head Machine Screw, Type III Cross Recess	2-1	3-3	4-2	5-*	6-*	7-9	
AEMY7	Sems, Oval Head Machine Screw, Slotted	2-1	3-3	4-2	5-*	6-*	7-9	
AEMY8	Sems, Oval Head Machine Screw, Type I Cross Recess	2-1	3-3	4-2	5-*	6-*	7-9	
AEMY9	Sems, Oval Head Machine Screw, Type IA Cross Recess	2-1	3-3	4-2	5-*	6-*	7-9	
AEMZ0	Sems, Oval Head Machine Screw, Type III Cross Recess	2-1	3-3	4-2	5-*	6-*	7-9	
AEMZ1	Sems, Pan Head Machine Screw, Slotted	2-1	3-3	4-2	5-*	6-*	7-9	
AEMZ2	Sems, Pan Head Machine Screw, Type I Cross Recess	2-1	3-3	4-2	5-*	6-*	7-9	
AEMZ3	Sems, Pan Head Machine Screw, Type IA Cross Recess	2-1	3-3	4-2	5-*	6-*	7-9	
AEMZ4	Sems, Pan Head Machine Screw, Type III Cross Recess	2-1	3-3	4-2	5-*	6-*	7-9	
AEMZ8	Sems, Indented Hex Head Machine Screw, Unslotted	2-1	3-3	4-2	5-*	6-*	7-9	
AEMZ9	Sems, Indented Hex Head Machine Screw, Slotted	2-1	3-3	4-2	5-*	6-*	7-9	
AEMZA	Sems, Trimmed Hex Head Machine Screw, Unslotted	2-1	3-3	4-2	5-*	6-*	7-9	
AEMZB	Sems, Trimmed Hex Head Machine Screw, Slotted	2-1	3-3	4-2	5-*	6-*	7-9	
AEMZC	Sems, Fully Upset Hex Head Machine Screw, Unslotted	2-1	3-3	4-2	5-*	6-*	7-9	
AEMZD	Sems, Fully Upset Hex Head Machine Screw, Slotted	2-1	3-3	4-2	5-*	6-*	7-9	
AEMZE	Sems, Hex Flange Head Machine Screw, Slotted	2-1	3-3	4-2	5-*	6-*	7-9	
AEMZF	Sems, Hex Flange Head Machine Screw, Unslotted	2-1	3-3	4-2	5-*	6-*	7-9	

Nuts

B18.2.2 Square and Hex Nuts (Inch Series)		Field 2	3	4	5	6	7
AEN01	Nuts, Square	2-1	3-1	4-1	5-*	6-*	7-1
AEN02	Nuts, Hex Flat	2-1	3-1	4-1	5-*	6-*	7-1
AEN03	Nuts, Hex Flat Jam	2-1	3-1	4-1	5-*	6-*	7-1
AEN04	Nuts, Hex	2-1	3-1	4-1	5-*	6-*	7-1
AEN05	Nuts, Hex Jam	2-1	3-1	4-1	5-*	6-*	7-1
AEN06	Nuts, Hex Slotted	2-1	3-1	4-1	5-*	6-*	7-1
AEN07	Nuts, Hex Thick	2-1	3-1	4-1	5-*	6-*	7-1
		<i>Field Length = 1, 3, 3, 3, 2, 1,</i>					

Table 1-1 Fastener Family and Type / Base PIN (Cont'd)

Nuts (Cont'd)		Applicable Table References:		Thread	Size	Lg/Other	Material	Finish	Feature
B18.2.2	Square and Hex Nuts (Inch Series) (Cont'd)	Field 2	3	4	5	6	7		
AEN08	Nuts, Hex Thick Slotted	2-1	3-1	4-1	5-*	6-*	7-1		
AEN09	Nuts, Heavy Square	2-1	3-1	4-1	5-*	6-*	7-1		
AEN10	Nuts, Heavy Hex Flat	2-1	3-1	4-1	5-*	6-*	7-1		
AEN11	Nuts, Heavy Hex Flat Jam	2-1	3-1	4-1	5-*	6-*	7-1		
AEN12	Nuts, Heavy Hex	2-1	3-1	4-1	5-*	6-*	7-1		
AEN13	Nuts, Heavy Hex Jam	2-1	3-1	4-1	5-*	6-*	7-1		
AEN14	Nuts, Heavy Hex Slotted	2-1	3-1	4-1	5-*	6-*	7-1		
B18.2.4.1M	Metric Hex Nuts, Style 1	Field 2	3	4	5	6	7		
AEN15	Nuts, Hex, Style 1	2-1	3-3	4-2	5-*	6-*	7-1		
B18.2.4.2M	Metric Hex Nuts, Style 2	Field 2	3	4	5	6	7		
AEN16	Nuts, Hex, Style 2	2-1	3-3	4-2	5-*	6-*	7-1		
B18.2.4.3M	Metric Slotted Hex Nuts	Field 2	3	4	5	6	7		
AEN17	Nuts, Hex, Slotted	2-1	3-3	4-2	5-*	6-*	7-1		
B18.2.4.4M	Metric Hex Flange Nuts	Field 2	3	4	5	6	7		
AEN18	Nuts, Hex, Flange	2-1	3-3	4-2	5-*	6-*	7-1		
B18.2.4.5M	Metric Hex Jam Nuts	Field 2	3	4	5	6	7		
AEN19	Nuts, Hex, Jam	2-1	3-3	4-2	5-*	6-*	7-1		
B18.2.4.6M	Metric Heavy Hex Nuts	Field 2	3	4	5	6	7		
AEN20	Nuts, Heavy Hex	2-1	3-3	4-2	5-*	6-*	7-1		
B18.2.6	Fasteners for Use in Structural Applications (Inch Series)	Field 2	3	4	5	6	7		
AEN21	Nuts, Heavy Hex (for use with Structural Bolts)	2-1	3-1	4-1	5-*	6-*	7-1		
B18.6.3	Machine Screws and Machine Screw Nuts (Inch Series)	Field 2	3	4	5	6	7		
AEN22	Nuts, Machine, Square	2-1	3-1	4-1	5-*	6-*	7-1		
AEN23	Nuts, Machine, Hex	2-1	3-1	4-1	5-*	6-*	7-1		
B18.10	Track Bolts and Nuts (Inch Series)	Field 2	3	4	5	6	7		
AEN24	Nuts, Track Bolt (Low Carbon)	2-1	3-1	4-1	5-*	6-*	7-13		
AEN25	Nuts, Track Bolt (Medium Carbon)	2-1	3-1	4-1	5-*	6-*	7-13		
B18.16.3M	Metric Prevailing-Torque Type Steel Hex Nuts and Hex Flange Nuts	Field 2	3	4	5	6	7		
AEN26	Nuts, Hex, Prevailing-Torque Type (All Metal), Class 5 and 10	2-1	3-3	4-2	5-*	6-*	7-1		
AEN27	Nuts, Hex, Prevailing-Torque Type (Nonmetallic Prevailing Torque Element in Threads), Class 5 and 10	2-1	3-3	4-2	5-*	6-*	7-1		
AEN28	Nuts, Hex, Prevailing-Torque Type (Top Insert), Class 5 and 10	2-1	3-3	4-2	5-*	6-*	7-1		
AEN29	Nuts, Hex Flange, Prevailing-Torque Type (All Metal)	2-1	3-3	4-2	5-*	6-*	7-1		
AEN30	Nuts, Hex Flange, Prevailing-Torque Type (Nonmetallic Prevailing Torque Element in Threads)	2-1	3-3	4-2	5-*	6-*	7-1		
AEN31	Nuts, Hex Flange, Prevailing-Torque Type (Top Insert)	2-1	3-3	4-2	5-*	6-*	7-1		
AEN32	Nuts, Hex, Prevailing-Torque Type (All Metal), Class 9	2-1	3-3	4-2	5-*	6-*	7-1		
AEB33	Nuts, Hex, Prevailing-Torque Type (Nonmetallic Prevailing Torque Element in Threads), Class 9	2-1	3-3	4-2	5-*	6-*	7-1		
AEN34	Nuts, Hex, Prevailing-Torque Type (Top Insert), Class 9	2-1	3-3	4-2	5-*	6-*	7-1		
		Field Length = 1, 3, 3, 3, 2, 1,							

Table 1-1 Fastener Family and Type / Base PIN (Cont'd)

Pins		Applicable Table References:	Thread	Size	Lg/Other	Material	Finish	Feature
B18.8.1 Clevis Pins and Cotter Pins (Inch Series)		Field 2	3	4	5	6	7	
AEP01	Pins, Clevis	2-1	3-2	4-5	5-*	6-*	7-1	
AEP02	Pins, Cotter	2-1	3-2	4-1	5-*	6-*	7-7	
B18.8.2 Taper Pins, Dowel Pins, Straight Pins, Grooved Pins, and Spring Pins (Inch Series)		Field 2	3	4	5	6	7	
AEP03	Pins, Taper, Commercial Class	2-1	3-19	4-1	5-*	6-*	7-1	
AEP04	Pins, Taper, Precision Class	2-1	3-19	4-1	5-*	6-*	7-1	
AEP05	Pins, Dowel, Hardened Ground Machine, Standard Series	2-1	3-2	4-1	5-*	6-*	7-1	
AEP06	Pins, Dowel, Hardened Ground Machine, Oversize Series	2-1	3-2	4-1	5-*	6-*	7-1	
AEP07	Pins, Dowel, Hardened Ground Production	2-1	3-2	4-1	5-*	6-*	7-1	
AEP08	Pins, Dowel, Unhardened Ground	2-1	3-2	4-1	5-*	6-*	7-1	
AEP09	Pins, Straight, Chamfered and Square End	2-1	3-2	4-1	5-*	6-*	7-8	
AEP10	Pins, Grooved, Low Carbon or Alloy Steel, Type A	2-1	3-2	4-1	5-*	6-*	7-1	
AEP11	Pins, Grooved, Corrosion Resistant Steel and Monel, Type A	2-1	3-2	4-1	5-*	6-*	7-1	
AEP12	Pins, Grooved, Low Carbon or Alloy Steel, Type E	2-1	3-2	4-1	5-*	6-*	7-1	
AEP13	Pins, Grooved, Corrosion Resistant Steel and Monel, Type E	2-1	3-2	4-1	5-*	6-*	7-1	
AEP14	Pins, Grooved, Low Carbon or Alloy Steel, Type F	2-1	3-2	4-1	5-*	6-*	7-1	
AEP15	Pins, Grooved, Corrosion Resistant Steel and Monel, Type F	2-1	3-2	4-1	5-*	6-*	7-1	
AEP16	Pins, Grooved, Low Carbon or Alloy Steel, Type G	2-1	3-2	4-1	5-*	6-*	7-1	
AEP17	Pins, Grooved, Corrosion Resistant Steel and Monel, Type G	2-1	3-2	4-1	5-*	6-*	7-1	
AEP18	Pins, Grooved, Low Carbon or Alloy Steel, Type H	2-1	3-2	4-1	5-*	6-*	7-1	
AEP19	Pins, Grooved, Corrosion-Resistant Steel and Monel, Type H	2-1	3-2	4-1	5-*	6-*	7-1	
AEP20	Pins, Round Head Grooved Drive Stud	2-1	3-18	4-1	5-*	6-*	7-1	
AEP21	Pins, Grooved, T-Head Cotter	2-1	3-2	4-1	5-*	6-*	7-1	
AEP22	Pins, Spring, Slotted Type	2-1	3-2	4-1	5-*	6-*	7-1	
AEP23	Pins, Spring, Coiled Type, Standard Duty	2-1	3-2	4-1	5-*	6-*	7-1	
AEP24	Pins, Spring, Coiled Type, Heavy Duty	2-1	3-2	4-1	5-*	6-*	7-1	
AEP25	Pins, Spring, Coiled Type, Light Duty	2-1	3-2	4-1	5-*	6-*	7-1	
B18.8.3M Metric Spring Pins—Coiled Type		Field 2	3	4	5	6	7	
AEP26	Pins, Spring, Coiled Type, Standard Duty	2-1	3-4	4-2	5-*	6-*	7-1	
AEP27	Pins, Spring, Coiled Type, Heavy Duty	2-1	3-4	4-2	5-*	6-*	7-1	
AEP28	Pins, Spring, Coiled Type, Light Duty	2-1	3-4	4-2	5-*	6-*	7-1	
B18.8.4M Metric Spring Pins—Slotted		Field 2	3	4	5	6	7	
AEP29	Pins, Spring, Slotted Type A	2-1	3-4	4-2	5-*	6-*	7-1	
AEP30	Pins, Spring, Slotted Type B	2-1	3-4	4-2	5-*	6-*	7-1	
B18.8.5M Metric Dowel Pins—Hardened Ground		Field 2	3	4	5	6	7	
AEP31	Pins, Dowel, Machine, Hardened Ground, Standard Series	2-1	3-4	4-2	5-*	6-*	7-1	
AEP32	Pins, Dowel, Machine, Hardened Ground, Oversize Series	2-1	3-4	4-2	5-*	6-*	7-1	
B18.8.6M Metric Cotter Pins		Field 2	3	4	5	6	7	
AEP33	Pins, Cotter	2-1	3-4	4-2	5-*	6-*	7-7	
B18.8.7M Metric Headless Clevis Pins		Field 2	3	4	5	6	7	
AEP34	Pins, Clevis, Headless, Type A Unhardened	2-1	3-4	4-2	5-*	6-*	7-1	
AEP35	Pins, Clevis, Headless, Type A Hardened	2-1	3-4	4-2	5-*	6-*	7-1	
AEP36	Pins, Clevis, Headless, Type B Unhardened	2-1	3-4	4-2	5-*	6-*	7-1	
AEP37	Pins, Clevis, Headless, Type B Hardened	2-1	3-4	4-2	5-*	6-*	7-1	
Field Length = 1,			3,	3,	3,	2,	1,	

Table 1-1 Fastener Family and Type / Base PIN (Cont'd)

Pins (Cont'd)		Applicable Table References:	Thread	Size	Lg/Other	Material	Finish	Feature
B18.8.8M Metric Headless Clevis Pins		Field 2	3	4	5	6	7	
AEP38	Pins, Clevis, Headed, Type A Unhardened	2-1	3-4	4-2	5-*	6-*	7-1	
AEP39	Pins, Clevis, Headed, Type A Hardened	2-1	3-4	4-2	5-*	6-*	7-1	
AEP40	Pins, Clevis, Headed, Type B Unhardened	2-1	3-4	4-2	5-*	6-*	7-1	
AEP41	Pins, Clevis, Headed, Type B Hardened	2-1	3-4	4-2	5-*	6-*	7-1	
B18.8.9M Metric Grooved Pins		Field 2	3	4	5	6	7	
AEP42	Pins, Grooved, Type 39	2-1	3-4	4-2	5-*	6-*	7-1	
AEP43	Pins, Grooved, Type 40	2-1	3-4	4-2	5-*	6-*	7-1	
AEP44	Pins, Grooved, Type 42	2-1	3-4	4-2	5-*	6-*	7-1	
AEP45	Pins, Grooved, Type 43	2-1	3-4	4-2	5-*	6-*	7-1	
AEP46	Pins, Grooved, Type 43-1	2-1	3-4	4-2	5-*	6-*	7-1	
AEP47	Pins, Grooved, Type 43-2	2-1	3-4	4-2	5-*	6-*	7-1	
AEP48	Pins, Grooved, Type 44	2-1	3-4	4-2	5-*	6-*	7-1	
AEP49	Pins, Grooved, Type 45	2-1	3-4	4-2	5-*	6-*	7-1	
AEP50	Pins, Grooved, Type 46-1	2-1	3-4	4-2	5-*	6-*	7-1	
AEP51	Pins, Grooved, Type 46-2	2-1	3-4	4-2	5-*	6-*	7-1	
AEP52	Pins, Grooved, Type 47-1	2-1	3-4	4-2	5-*	6-*	7-1	
AEP53	Pins, Grooved, Type 47-2	2-1	3-4	4-2	5-*	6-*	7-1	
Retaining Rings								
B18.27.1 Tapered and Reduced Cross Section Retaining Rings (Inch Series)		Field 2	3	4	5	6	7	
AER01	Retaining Rings, External Type NA1	2-1	3-20	4-1	5-*	6-*	7-1	
AER02	Retaining Rings, Internal Type NA2	2-1	3-20	4-1	5-*	6-*	7-1	
AER03	Retaining Rings, E-Ring Type NA3	2-1	3-20	4-1	5-*	6-*	7-1	
B18.27.2 Tapered and Reduced Cross Section Retaining Rings (Inch Series)		Field 2	3	4	5	6	7	
AER04	Retaining Rings, Heavy Duty External Type NA4	2-1	3-20	4-1	5-*	6-*	7-1	
AER05	Retaining Rings, Reinforced E-Rings Type NA5	2-1	3-20	4-1	5-*	6-*	7-1	
AER06	Retaining Rings, C-Type NA6	2-1	3-20	4-1	5-*	6-*	7-1	
B18.27.3 Tapered and Reduced Cross Section Retaining Rings (Inch Series)		Field 2	3	4	5	6	7	
AER07	Retaining Rings, Bowed External Rings NA7	2-1	3-20	4-1	5-*	6-*	7-1	
AER08	Retaining Rings, Bowed Internal Rings NA8	2-1	3-20	4-1	5-*	6-*	7-1	
AER09	Retaining Rings, Bowed External E-Rings NA9	2-1	3-20	4-1	5-*	6-*	7-1	
B18.27.4 Tapered and Reduced Cross Section Retaining Rings (Inch Series)		Field 2	3	4	5	6	7	
AER10	Retaining Rings, Inverted External NA10	2-1	3-20	4-1	5-*	6-*	7-1	
AER11	Retaining Rings, Inverted Internal NA11	2-1	3-20	4-1	5-*	6-*	7-1	
AER12	Retaining Rings, Beveled External NA12	2-1	3-20	4-1	5-*	6-*	7-1	
AER13	Retaining Rings, Beveled Internal NA13	2-1	3-20	4-1	5-*	6-*	7-1	
B18.27.5 Tapered and Reduced Cross Section Retaining Rings (Inch Series)		Field 2	3	4	5	6	7	
AER14	Retaining Rings, External Self-Locking Rings Type NA14	2-1	3-20	4-1	5-*	6-*	7-1	
AER15	Retaining Rings, External Interlocking Rings Type NA15	2-1	3-20	4-1	5-*	6-*	7-1	
AER16	Retaining Rings, External Bowed Locking Prongs Rings Type NA16	2-1	3-20	4-1	5-*	6-*	7-1	
B27.6 General Purpose Uniform Cross Section Spiral Retaining Rings (Inch Series)		Field 2	3	4	5	6	7	
AER17	Retaining Rings, GP Uniform Cross Section Spiral, Light Duty External Type	2-1	3-21	4-1	5-*	6-*	7-1	
AER18	Retaining Rings, GP Uniform Cross Section Spiral, Heavy Duty External Type	2-1	3-21	4-1	5-*	6-*	7-1	
AER19	Retaining Rings, GP Uniform Cross Section Spiral, Light Duty Internal Type	2-1	3-21	4-1	5-*	6-*	7-1	
AER20	Retaining Rings, GP Uniform Cross Section Spiral, Heavy Duty Internal Type	2-1	3-21	4-1	5-*	6-*	7-1	
		Field Length = 1, 3, 3, 3, 2, 1,						

Table 1-1 Fastener Family and Type / Base PIN (Cont'd)

Retaining Rings (Cont'd)		Applicable Table References:	Thread	Size	Lg/Other	Material	Finish	Feature
B27.7 Metric Tapered and Reduced Cross Section Retaining Rings		Field 2	3	4	5	6	7	
AER21	Retaining Rings, GP Tapered and Reduced Cross Section, Basic External Series Type 3AM1	2-1	3-20	4-2	5-*	6-*	7-1	
AER22	Retaining Rings, GP Tapered and Reduced Cross Section, Basic Internal Series Type 3BM1	2-1	3-20	4-2	5-*	6-*	7-1	
AER23	Retaining Rings, GP Tapered and Reduced Cross Section, E-Ring External Series Type 3CM1	2-1	3-20	4-2	5-*	6-*	7-1	
B27.8 Metric Tapered and Reduced Cross Section Retaining Rings		Field 2	3	4	5	6	7	
AER24	Retaining Rings, GP Tapered and Reduced Cross Section, Heavy Duty 1 Ring External Series Type 3DM	2-1	3-20	4-2	5-*	6-*	7-1	
AER25	Retaining Rings, GP Tapered and Reduced Cross Section, Reinforced 1 E-Ring External Series Type 3EM	2-1	3-20	4-2	5-*	6-*	7-1	
AER26	Retaining Rings, GP Tapered and Reduced Cross Section, C-Ring External Series Type 3FM1	2-1	3-20	4-2	5-*	6-*	7-1	
Screws								
B18.2.1 Square and Hex Bolts and Screws (Inch Series)		Field 2	3	4	5	6	7	
AES01	Screws, Cap, Hex (Finished Hex Bolt)	2-1	3-1	4-1	5-*	6-*	7-2	
AES02	Screws, Hex, Heavy	2-1	3-1	4-1	5-*	6-*	7-2	
AES03	Screws, Lag, Square Head, Gimlet Point	2-1	3-13	4-1	5-*	6-*	7-1	
AES04	Screws, Lag, Square Head, Cone Point	2-1	3-13	4-1	5-*	6-*	7-1	
AES05	Screws, Lag, Hex Head, Gimlet Point	2-1	3-13	4-1	5-*	6-*	7-1	
AES06	Screws, Lag, Hex Head, Cone Point	2-1	3-13	4-1	5-*	6-*	7-1	
B18.2.3.1M Metric Hex Cap Screws		Field 2	3	4	5	6	7	
AES07	Screws, Cap, Hex	2-1	3-3	4-2	5-*	6-*	7-2	
B18.2.3.2M Metric Formed Hex Screws		Field 2	3	4	5	6	7	
AES08	Screws, Hex, Formed	2-1	3-3	4-2	5-*	6-*	7-2	
B18.2.3.3M Metric Heavy Hex Screws		Field 2	3	4	5	6	7	
AES09	Screws, Hex, Heavy	2-1	3-3	4-2	5-*	6-*	7-2	
B18.2.3.4M Metric Hex Flange Screws		Field 2	3	4	5	6	7	
AES10	Screws, Hex, Flange	2-1	3-3	4-2	5-*	6-*	7-4	
B18.2.3.8M Metric Hex Lag Screws		Field 2	3	4	5	6	7	
AES11	Screws, Lag, Hex Head, Gimlet Point	2-1	3-4	4-2	5-*	6-*	7-1	
B18.2.3.9M Metric Heavy Hex Flange Screws		Field 2	3	4	5	6	7	
AES12	Screws, Heavy Hex, Flange	2-1	3-3	4-2	5-*	6-*	7-4	
B18.2.7.1M Metric 12-Spline Flange Screws		Field 2	3	4	5	6	7	
AES13	Screws, 12-Spline, Flange	2-1	3-3	4-2	5-*	6-*	7-5	
B18.3 Socket Cap, Shoulder, and Set Screws, Hex and Spline Keys (Inch Series)		Field 2	3	4	5	6	7	
AES14	Screws, Cap, Hex Socket Head	2-1	3-1	4-1	5-*	6-*	7-11	
AES15	Screws, Cap, Spline Socket Head	2-1	3-1	4-1	5-*	6-*	7-2	
AES16	Screws, Cap, Hex Socket, Flat Countersunk Head	2-1	3-1	4-1	5-*	6-*	7-2	
AES17	Screws, Cap, Spline Socket, Flat Countersunk Head	2-1	3-1	4-1	5-*	6-*	7-2	
AES18	Screws, Cap, Hex Socket, Button Head	2-1	3-1	4-1	5-*	6-*	7-2	
AES19	Screws, Cap, Spline Socket, Button Head	2-1	3-1	4-1	5-*	6-*	7-2	
AES20	Screws, Shoulder, Hex Socket Head	2-1	3-8	4-1	5-*	6-*	7-2	
AES21	Screws, Set, Spline Socket, Cup Point Type, A	2-1	3-10	4-1	5-*	6-*	7-12	
		Field Length = 1, 3, 3, 3, 2, 1,						

Table 1-1 Fastener Family and Type / Base PIN (Cont'd)

Screws (Cont'd)		Applicable Table References:		Thread	Size	Lg/Other	Material	Finish	Feature
B18.3 Socket Cap, Shoulder, and Set Screws, Hex and Spline Keys (Inch Series) (Cont'd)				Field 2	3	4	5	6	7
AES22	Screws, Set, Spline Socket, Small Cup Point, Type B	2-1	3-10	4-1	5-*	6-*	7-12		
AES23	Screws, Set, Spline Socket, Knurled Cup Point, Type C	2-1	3-10	4-1	5-*	6-*	7-12		
AES24	Screws, Set, Spline Socket, Hexagon Cup Point, Type D	2-1	3-10	4-1	5-*	6-*	7-12		
AES25	Screws, Set, Spline Socket, W Cup Point, Type E	2-1	3-10	4-1	5-*	6-*	7-12		
AES26	Screws, Set, Spline Socket, Nu-Cup Point, Type F	2-1	3-10	4-1	5-*	6-*	7-12		
AES27	Screws, Set, Spline Socket, Nu-Cup Point, Type G	2-1	3-10	4-1	5-*	6-*	7-12		
AES28	Screws, Set, Spline Socket, Cone Point	2-1	3-10	4-1	5-*	6-*	7-12		
AES29	Screws, Set, Spline Socket, Flat Point	2-1	3-10	4-1	5-*	6-*	7-12		
AES30	Screws, Set, Spline Socket, Half Dog Point	2-1	3-10	4-1	5-*	6-*	7-12		
AES31	Screws, Set, Spline Socket, Oval Point	2-1	3-10	4-1	5-*	6-*	7-12		
AES32	Screws, Set, Hex Socket, Cup Point, Type A	2-1	3-1	4-1	5-*	6-*	7-12		
AES33	Screws, Set, Hex Socket, Small Cup Point, Type B	2-1	3-1	4-1	5-*	6-*	7-12		
AES34	Screws, Set, Hex Socket, Knurled Cup Point, Type C	2-1	3-1	4-1	5-*	6-*	7-12		
AES35	Screws, Set, Hex Socket, Hexagon Cup Point, Type D	2-1	3-1	4-1	5-*	6-*	7-12		
AES36	Screws, Set, Hex Socket, W Cup Point, Type E	2-1	3-1	4-1	5-*	6-*	7-12		
AES37	Screws, Set, Hex Socket, Nu-Cup Point, Type F	2-1	3-1	4-1	5-*	6-*	7-12		
AES38	Screws, Set, Hex Socket, Nu-Cup Point, Type G	2-1	3-1	4-1	5-*	6-*	7-12		
AES39	Screws, Set, Hex Socket, Cone Point	2-1	3-1	4-1	5-*	6-*	7-12		
AES40	Screws, Set, Hex Socket, Flat Point	2-1	3-1	4-1	5-*	6-*	7-12		
AES41	Screws, Set, Hex Socket, Half Dog Point	2-1	3-1	4-1	5-*	6-*	7-12		
AES42	Screws, Set, Hex Socket, Oval Point	2-1	3-1	4-1	5-*	6-*	7-12		
B18.3.1M Metric Socket Head Cap Screws				Field 2	3	4	5	6	7
AES43	Screws, Cap, Hex Socket Head	2-1	3-3	4-2	5-*	6-*	7-11		
AES44	Screws, Cap, Spline Socket Head	2-1	3-3	4-2	5-*	6-*	7-2		
B18.3.3M Metric Hexagon Socket Head Shoulder Screws				Field 2	3	4	5	6	7
AES45	Screws, Shoulder, Hex Socket	2-1	3-9	4-2	5-*	6-*	7-2		
B18.3.4M Metric Socket Button Head Cap Screws				Field 2	3	4	5	6	7
AES46	Screws, Cap, Hex Socket, Button Head	2-1	3-3	4-2	5-*	6-*	7-2		
B18.3.5M Metric Hexagon Socket Flat Countersunk Head Cap Screws				Field 2	3	4	5	6	7
AES47	Screws, Cap, Hex Socket Flat Countersunk Head	2-1	3-3	4-2	5-*	6-*	7-2		
B18.3.6M Metric Socket Set Screws				Field 2	3	4	5	6	7
AES48	Screws, Set, Spline Socket, Cup Point, Type I	2-1	3-3	4-2	5-*	6-*	7-12		
AES49	Screws, Set, Spline Socket, Cup Point, Type II	2-1	3-3	4-2	5-*	6-*	7-12		
AES50	Screws, Set, Spline Socket, Cup Point, Type III	2-1	3-3	4-2	5-*	6-*	7-12		
AES51	Screws, Set, Spline Socket, Cup Point, Type IV	2-1	3-3	4-2	5-*	6-*	7-12		
AES52	Screws, Set, Spline Socket, Cup Point, Type V	2-1	3-3	4-2	5-*	6-*	7-12		
AES53	Screws, Set, Spline Socket, Cone Point	2-1	3-3	4-2	5-*	6-*	7-12		
AES54	Screws, Set, Spline Socket, Flat Point	2-1	3-3	4-2	5-*	6-*	7-12		
AES55	Screws, Set, Spline Socket, Half Dog Point	2-1	3-3	4-2	5-*	6-*	7-12		
AES56	Screws, Set, Spline Socket, Oval Point	2-1	3-3	4-2	5-*	6-*	7-12		
AES57	Screws, Set, Hex Socket, Cup Point, Type I	2-1	3-3	4-2	5-*	6-*	7-12		
AES58	Screws, Set, Hex Socket, Cup Point, Type II	2-1	3-3	4-2	5-*	6-*	7-12		
AES59	Screws, Set, Hex Socket, Cup Point, Type III	2-1	3-3	4-2	5-*	6-*	7-12		
AES60	Screws, Set, Hex Socket, Cup Point, Type IV	2-1	3-3	4-2	5-*	6-*	7-12		
AES61	Screws, Set, Hex Socket, Cup Point, Type V	2-1	3-3	4-2	5-*	6-*	7-12		
AES62	Screws, Set, Hex Socket, Cone Point	2-1	3-3	4-2	5-*	6-*	7-12		
AES63	Screws, Set, Hex Socket, Flat Point	2-1	3-3	4-2	5-*	6-*	7-12		
AES64	Screws, Set, Hex Socket, Half Dog Point	2-1	3-3	4-2	5-*	6-*	7-12		
AES65	Screws, Set, Hex Socket, Oval Point	2-1	3-3	4-2	5-*	6-*	7-12		
				Field Length = 1, 3, 3, 3, 2, 1,					

Table 1-1 Fastener Family and Type / Base PIN (Cont'd)

Screws (Cont'd)		Applicable Table References:	Thread	Size	Lg/Other	Material	Finish	Feature
B18.6.1 Wood Screws (Inch Series)		<i>Field 2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>	
AES66	Screws, Wood, Flat Head, Slotted	2-1	3-12	4-1	5-*	6-*	7-10	
AES67	Screws, Wood, Flat Head, Type I Cross Recess	2-1	3-12	4-1	5-*	6-*	7-10	
AES68	Screws, Wood, Flat Head, Type IA Cross Recess	2-1	3-12	4-1	5-*	6-*	7-10	
AES69	Screws, Wood, Flat Head, Type II Cross Recess	2-1	3-12	4-1	5-*	6-*	7-10	
AES70	Screws, Wood, Oval Head, Slotted	2-1	3-12	4-1	5-*	6-*	7-10	
AES71	Screws, Wood, Oval Head, Type I Cross Recess	2-1	3-12	4-1	5-*	6-*	7-10	
AES72	Screws, Wood, Oval Head, Type IA Cross Recess	2-1	3-12	4-1	5-*	6-*	7-10	
AES73	Screws, Wood, Oval Head, Type II Cross Recess	2-1	3-12	4-1	5-*	6-*	7-10	
AES74	Screws, Wood, Pan Head, Slotted	2-1	3-12	4-1	5-*	6-*	7-10	
AES75	Screws, Wood, Pan Head, Type I Cross Recess	2-1	3-12	4-1	5-*	6-*	7-10	
AES76	Screws, Wood, Pan Head, Type IA Cross Recess	2-1	3-12	4-1	5-*	6-*	7-10	
AES77	Screws, Wood, Pan Head, Type II Cross Recess	2-1	3-12	4-1	5-*	6-*	7-10	
B18.6.2 Slotted Head Cap Screws, Square Head Set Screws, and Slotted Headless Set Screws (Inch Series)		<i>Field 2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>	
AES78	Screws, Cap, Flat Countersunk Head, Slotted	2-1	3-1	4-1	5-*	6-*	7-2	
AES79	Screws, Cap, Round Head, Slotted	2-1	3-1	4-1	5-*	6-*	7-2	
AES80	Screws, Cap, Fillister Head, Slotted	2-1	3-1	4-1	5-*	6-*	7-2	
AES81	Screws, Set, Square Head, Cup Point	2-1	3-1	4-1	5-*	6-*	7-12	
AES82	Screws, Set, Square Head, Cone Point	2-1	3-1	4-1	5-*	6-*	7-12	
AES83	Screws, Set, Square Head, Flat Point	2-1	3-1	4-1	5-*	6-*	7-12	
AES84	Screws, Set, Square Head, Half Dog Point	2-1	3-1	4-1	5-*	6-*	7-12	
AES85	Screws, Set, Square Head, Full Dog Point	2-1	3-1	4-1	5-*	6-*	7-12	
AES86	Screws, Set, Square Head, Oval Point	2-1	3-1	4-1	5-*	6-*	7-12	
AES87	Screws, Set, Square Head, Optional Relieved Neck, Cup Point	2-1	3-1	4-1	5-*	6-*	7-12	
AES88	Screws, Set, Square Head, Optional Relieved Neck, Cone Point	2-1	3-1	4-1	5-*	6-*	7-12	
AES89	Screws, Set, Square Head, Optional Relieved Neck, Flat Point	2-1	3-1	4-1	5-*	6-*	7-12	
AES90	Screws, Set, Square Head, Optional Relieved Neck, Half Dog Point	2-1	3-1	4-1	5-*	6-*	7-12	
AES91	Screws, Set, Square Head, Optional Relieved Neck, Full Dog Point	2-1	3-1	4-1	5-*	6-*	7-12	
AES92	Screws, Set, Square Head, Optional Relieved Neck, Oval Point	2-1	3-1	4-1	5-*	6-*	7-12	
AES93	Screws, Set, Slotted Headless, Cup Point	2-1	3-1	4-1	5-*	6-*	7-12	
AES94	Screws, Set, Slotted Headless, Cone Point	2-1	3-1	4-1	5-*	6-*	7-12	
AES95	Screws, Set, Slotted Headless, Flat Point	2-1	3-1	4-1	5-*	6-*	7-12	
AES96	Screws, Set, Slotted Headless, Half Dog Point	2-1	3-1	4-1	5-*	6-*	7-12	
AES97	Screws, Set, Slotted Headless, Full Dog Point	2-1	3-1	4-1	5-*	6-*	7-12	
AES98	Screws, Set, Slotted Headless, Oval Point	2-1	3-1	4-1	5-*	6-*	7-12	
B18.6.3 Machine Screws and Machine Screw Nuts (Inch Series)		<i>Field 2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>	
AESC0	Screws, Machine, Flat Head, Slotted	2-1	3-1	4-1	5-*	6-*	7-2	
AESC1	Screws, Machine, Flat Head, Type I Cross Recess	2-1	3-1	4-1	5-*	6-*	7-2	
AESC2	Screws, Machine, Flat Head, Type IA Cross Recess	2-1	3-1	4-1	5-*	6-*	7-2	
AESC3	Screws, Machine, Flat Head, Type II Cross Recess	2-1	3-1	4-1	5-*	6-*	7-2	
AESC4	Screws, Machine, Flat Head, Type III Square Recess	2-1	3-1	4-1	5-*	6-*	7-2	
AESC5	Screws, Machine, Flat Head, 100 deg, Slotted	2-1	3-1	4-1	5-*	6-*	7-2	
AESC6	Screws, Machine, Flat Head, 100 deg, Type I Cross Recess	2-1	3-1	4-1	5-*	6-*	7-2	
AESC7	Screws, Machine, Flat Head, 100 deg, Type IA Cross Recess	2-1	3-1	4-1	5-*	6-*	7-2	
AESC8	Screws, Machine, Flat Head, 100 deg, Type II Cross Recess	2-1	3-1	4-1	5-*	6-*	7-2	
AESC9	Screws, Machine, Flat Head, Close Tolerance, 100 deg, Slotted	2-1	3-1	4-1	5-*	6-*	7-2	
AESD0	Screws, Machine, Flat Head, Close Tolerance, 100 deg, Type I Cross Recess	2-1	3-1	4-1	5-*	6-*	7-2	
AESD1	Screws, Machine, Flat Head, Close Tolerance, 100 deg, Type IA Cross Recess	2-1	3-1	4-1	5-*	6-*	7-2	
AESD2	Screws, Machine, Flat Head, Close Tolerance, 100 deg, Type II Cross Recess	2-1	3-1	4-1	5-*	6-*	7-2	
AESD3	Screws, Machine, Oval Head, Slotted	2-1	3-1	4-1	5-*	6-*	7-2	
AESD4	Screws, Machine, Oval Head, Type I Cross Recess	2-1	3-1	4-1	5-*	6-*	7-2	
AESD5	Screws, Machine, Oval Head, Type IA Cross Recess	2-1	3-1	4-1	5-*	6-*	7-2	
		<i>Field Length = 1, 3, 3, 3, 2, 1,</i>						

Table 1-1 Fastener Family and Type / Base PIN (Cont'd)

Screws (Cont'd)		Applicable Table References:		Thread	Size	Lg/Other	Material	Finish	Feature
		Field 2		3	4	5	6	7	
B18.6.3 Machine Screws and Machine Screw Nuts (Inch Series) (Cont'd)									
AESD6	Screws, Machine, Oval Head, Type II Cross Recess	2-1	3-1	4-1	5-*	6-*	7-2		
AESD7	Screws, Machine, Oval Head, Type III Square Recess	2-1	3-1	4-1	5-*	6-*	7-2		
AESD8	Screws, Machine, Flat Head, Undercut, Slotted	2-1	3-1	4-1	5-*	6-*	7-2		
AESD9	Screws, Machine, Flat Head, Undercut, Type I Cross Recess	2-1	3-1	4-1	5-*	6-*	7-2		
AESE0	Screws, Machine, Flat Head, Undercut, Type IA Cross Recess	2-1	3-1	4-1	5-*	6-*	7-2		
AESE1	Screws, Machine, Flat Head, Undercut, Type II Cross Recess	2-1	3-1	4-1	5-*	6-*	7-2		
AESE2	Screws, Machine, Flat Head, Undercut, Type III Square Recess	2-1	3-1	4-1	5-*	6-*	7-2		
AESE3	Screws, Machine, Oval Undercut Head, Slotted	2-1	3-1	4-1	5-*	6-*	7-2		
AESE4	Screws, Machine, Oval Undercut Head, Type I Cross Recess	2-1	3-1	4-1	5-*	6-*	7-2		
AESE5	Screws, Machine, Oval Undercut Head, Type IA Cross Recess	2-1	3-1	4-1	5-*	6-*	7-2		
AESE6	Screws, Machine, Oval Undercut Head, Type II Cross Recess	2-1	3-1	4-1	5-*	6-*	7-2		
AESE7	Screws, Machine, Oval Undercut Head, Type III Square Recess	2-1	3-1	4-1	5-*	6-*	7-2		
AESE8	Screws, Machine, Flat Trim Head, Type I Cross Recess	2-1	3-11	4-1	5-*	6-*	7-2		
AESE9	Screws, Machine, Flat Trim Head, Type IA Cross Recess	2-1	3-11	4-1	5-*	6-*	7-2		
AESF0	Screws, Machine, Flat Trim Head, Type II Cross Recess	2-1	3-11	4-1	5-*	6-*	7-2		
AESF1	Screws, Machine, Oval Trim Head, Type I Cross Recess	2-1	3-11	4-1	5-*	6-*	7-2		
AESF2	Screws, Machine, Oval Trim Head, Type IA Cross Recess	2-1	3-11	4-1	5-*	6-*	7-2		
AESF3	Screws, Machine, Oval Trim Head, Type II Cross Recess	2-1	3-11	4-1	5-*	6-*	7-2		
AESF4	Screws, Machine, Pan Head, Slotted	2-1	3-1	4-1	5-*	6-*	7-2		
AESF5	Screws, Machine, Pan Head, Type I Cross Recess	2-1	3-1	4-1	5-*	6-*	7-2		
AESF6	Screws, Machine, Pan Head, Type IA Cross Recess	2-1	3-1	4-1	5-*	6-*	7-2		
AESF7	Screws, Machine, Pan Head, Type II Cross Recess	2-1	3-1	4-1	5-*	6-*	7-2		
AESF8	Screws, Machine, Pan Head, Type III Square Recess	2-1	3-1	4-1	5-*	6-*	7-2		
AESF9	Screws, Machine, Pan Head, Type I Cross Recess with Slot	2-1	3-1	4-1	5-*	6-*	7-2		
AESG0	Screws, Machine, Pan Head, Type IA Cross Recess with Slot	2-1	3-1	4-1	5-*	6-*	7-2		
AESG1	Screws, Machine, Pan Head, Type III Square Recess with Slot	2-1	3-1	4-1	5-*	6-*	7-2		
AESG2	Screws, Machine, Fillister Head, Slotted	2-1	3-1	4-1	5-*	6-*	7-2		
AESG3	Screws, Machine, Fillister Head, Type I Cross Recess	2-1	3-1	4-1	5-*	6-*	7-2		
AESG4	Screws, Machine, Fillister Head, Type IA Cross Recess	2-1	3-1	4-1	5-*	6-*	7-2		
AESG5	Screws, Machine, Fillister Head, Type II Cross Recess	2-1	3-1	4-1	5-*	6-*	7-2		
AESG6	Screws, Machine, Fillister Head, Type III Square Recess	2-1	3-1	4-1	5-*	6-*	7-2		
AESG7	Screws, Machine, Fillister Head, Slotted and Drilled	2-1	3-1	4-1	5-*	6-*	7-2		
AESG8	Screws, Machine, Truss Head, Slotted	2-1	3-1	4-1	5-*	6-*	7-2		
AESG9	Screws, Machine, Truss Head, Type I Cross Recess	2-1	3-1	4-1	5-*	6-*	7-2		
AESH0	Screws, Machine, Truss Head, Type IA Cross Recess	2-1	3-1	4-1	5-*	6-*	7-2		
AESH1	Screws, Machine, Truss Head, Type II Cross Recess	2-1	3-1	4-1	5-*	6-*	7-2		
AESH2	Screws, Machine, Truss Head, Type III Square Recess	2-1	3-1	4-1	5-*	6-*	7-2		
AESH3	Screws, Machine, Truss Head, Type I Cross Recess with Slot	2-1	3-1	4-1	5-*	6-*	7-2		
AESH4	Screws, Machine, Truss Head, Type III Square Recess with Slot	2-1	3-1	4-1	5-*	6-*	7-2		
AESH5	Screws, Machine, Binding Head, Slotted	2-1	3-1	4-1	5-*	6-*	7-2		
AESH6	Screws, Machine, Binding Head, Type I Cross Recess	2-1	3-1	4-1	5-*	6-*	7-2		
AESH7	Screws, Machine, Binding Head, Type IA Cross Recess	2-1	3-1	4-1	5-*	6-*	7-2		
AESH8	Screws, Machine, Binding Head, Type II Cross Recess	2-1	3-1	4-1	5-*	6-*	7-2		
AESH9	Screws, Machine, Binding Head, Type III Square Recess	2-1	3-1	4-1	5-*	6-*	7-2		
AESJ0	Screws, Machine, Regular Hex Head, Indented, Unslotted	2-1	3-1	4-1	5-*	6-*	7-2		
AESJ1	Screws, Machine, Regular Hex Head, Indented, Slotted	2-1	3-1	4-1	5-*	6-*	7-2		
AESJ2	Screws, Machine, Regular Hex Head, Trimmed, Unslotted	2-1	3-1	4-1	5-*	6-*	7-2		
AESJ3	Screws, Machine, Regular Hex Head, Trimmed, Slotted	2-1	3-1	4-1	5-*	6-*	7-2		
AESJ4	Screws, Machine, Regular Hex Head, Fully Upset, Unslotted	2-1	3-1	4-1	5-*	6-*	7-2		
AESJ5	Screws, Machine, Regular Hex Head, Fully Upset, Slotted	2-1	3-1	4-1	5-*	6-*	7-2		
AESJ6	Screws, Machine, Large Hex Head, Indented, Unslotted	2-1	3-1	4-1	5-*	6-*	7-2		
AESJ7	Screws, Machine, Large Hex Head, Indented, Slotted	2-1	3-1	4-1	5-*	6-*	7-2		
AESJ8	Screws, Machine, Large Hex Head, Trimmed, Unslotted	2-1	3-1	4-1	5-*	6-*	7-2		
AESJ9	Screws, Machine, Large Hex Head, Trimmed, Slotted	2-1	3-1	4-1	5-*	6-*	7-2		
AESK0	Screws, Machine, Large Hex Head, Fully Upset, Unslotted	2-1	3-1	4-1	5-*	6-*	7-2		
AESK1	Screws, Machine, Large Hex Head, Fully Upset, Slotted	2-1	3-1	4-1	5-*	6-*	7-2		
		<i>Field Length</i> = 1,		3,	3,	3,	2,	1,	

Table 1-1 Fastener Family and Type / Base PIN (Cont'd)

Screws (Cont'd)		Applicable Table References:	Thread	Size	Lg/Other	Material	Finish	Feature
B18.6.3 Machine Screws and Machine Screw Nuts (Inch Series) (Cont'd)		Field 2	3	4	5	6	7	
AESK2	Screws, Machine, Regular Hex Head, Indented, Type I Recess	2-1	3-1	4-1	5-*	6-*	7-2	
AESK3	Screws, Machine, Regular Hex Head, Trimmed, Type I Recess	2-1	3-1	4-1	5-*	6-*	7-2	
AESK4	Screws, Machine, Regular Hex Head, Fully Upset, Type I Recess	2-1	3-1	4-1	5-*	6-*	7-2	
AESK5	Screws, Machine, Large Hex Head, Indented, Type I Recess	2-1	3-1	4-1	5-*	6-*	7-2	
AESK6	Screws, Machine, Large Hex Head, Trimmed, Type I Recess	2-1	3-1	4-1	5-*	6-*	7-2	
AESK7	Screws, Machine, Large Hex Head, Fully Upset, Type I Recess	2-1	3-1	4-1	5-*	6-*	7-2	
AESK8	Screws, Machine, Hex Washer Head, Indented, Unslotted	2-1	3-1	4-1	5-*	6-*	7-2	
AESK9	Screws, Machine, Hex Washer Head, Indented, Slotted	2-1	3-1	4-1	5-*	6-*	7-2	
AESL0	Screws, Machine, Hex Washer Head, Indented, Type I Cross Recess	2-1	3-1	4-1	5-*	6-*	7-2	
AESL1	Screws, Machine, Hex Washer Head, Indented, Type I Cross Recess with Slot	2-1	3-1	4-1	5-*	6-*	7-2	
AESL2	Screws, Machine, Round Washer Head, Slotted	2-1	3-1	4-1	5-*	6-*	7-2	
AESL3	Screws, Machine, Round Washer Head, Type I Cross Recess	2-1	3-1	4-1	5-*	6-*	7-2	
AESL4	Screws, Machine, Round Head, Slotted	2-1	3-1	4-1	5-*	6-*	7-2	
AESL5	Screws, Machine, Round Head, Type I Cross Recess	2-1	3-1	4-1	5-*	6-*	7-2	
AESL6	Screws, Machine, Round Head, Type IA Cross Recess	2-1	3-1	4-1	5-*	6-*	7-2	
AESL7	Screws, Machine, Round Head, Type II Cross Recess	2-1	3-1	4-1	5-*	6-*	7-2	
AESL8	Screws, Machine, Round Head, Type III Square Recess	2-1	3-1	4-1	5-*	6-*	7-2	
AESL9	Screws, Machine, Round Head, Type I Cross Recess with Slot	2-1	3-1	4-1	5-*	6-*	7-2	
AESM0	Screws, Machine, Round Head, Type IA Cross Recess with Slot	2-1	3-1	4-1	5-*	6-*	7-2	
B18.6.4 Thread Forming and Thread Cutting Tapping Screws and Metallic Drive Screws (Inch Series)		Field 2	3	4	5	6	7	
AESM1	Screws, Tapping, Flat Head, Slotted	2-2	3-6	4-1	5-*	6-*	7-1	
AESM2	Screws, Tapping, Flat Head, Type I Cross Recess	2-2	3-6	4-1	5-*	6-*	7-1	
AESM3	Screws, Tapping, Flat Head, Type IA Cross Recess	2-2	3-6	4-1	5-*	6-*	7-1	
AESM4	Screws, Tapping, Flat Head, Type II Cross Recess	2-2	3-6	4-1	5-*	6-*	7-1	
AESM6	Screws, Tapping, 100 deg Flat Head, Slotted	2-2	3-6	4-1	5-*	6-*	7-1	
AESM7	Screws, Tapping, 100 deg Flat Head, Type I Cross Recess	2-2	3-6	4-1	5-*	6-*	7-1	
AESM8	Screws, Tapping, 100 deg Flat Head, Type IA Cross Recess	2-2	3-6	4-1	5-*	6-*	7-1	
AESM9	Screws, Tapping, 100 deg Flat Head, Type II Cross Recess	2-2	3-6	4-1	5-*	6-*	7-1	
AESN0	Screws, Tapping, Oval Head, Slotted	2-2	3-6	4-1	5-*	6-*	7-1	
AESN1	Screws, Tapping, Oval Head, Type I Cross Recess	2-2	3-6	4-1	5-*	6-*	7-1	
AESN2	Screws, Tapping, Oval Head, Type IA Cross Recess	2-2	3-6	4-1	5-*	6-*	7-1	
AESN3	Screws, Tapping, Oval Head, Type II Cross Recess	2-2	3-6	4-1	5-*	6-*	7-1	
AESN5	Screws, Tapping, Flat Head, Undercut, Slotted	2-2	3-6	4-1	5-*	6-*	7-1	
AESN6	Screws, Tapping, Flat Head, Undercut, Type I Cross Recess	2-2	3-6	4-1	5-*	6-*	7-1	
AESN7	Screws, Tapping, Flat Head, Undercut, Type IA Cross Recess	2-2	3-6	4-1	5-*	6-*	7-1	
AESN8	Screws, Tapping, Flat Head, Undercut, Type II Cross Recess	2-2	3-6	4-1	5-*	6-*	7-1	
AESPO	Screws, Tapping, Oval Undercut Head, Slotted	2-2	3-6	4-1	5-*	6-*	7-1	
AESP1	Screws, Tapping, Oval Undercut Head, Type I Cross Recess	2-2	3-6	4-1	5-*	6-*	7-1	
AESP2	Screws, Tapping, Oval Undercut Head, Type IA Cross Recess	2-2	3-6	4-1	5-*	6-*	7-1	
AESP3	Screws, Tapping, Oval Undercut Head, Type II Cross Recess	2-2	3-6	4-1	5-*	6-*	7-1	
AESP5	Screws, Tapping, Flat Trim Head, Type I Cross Recess	2-2	3-6	4-1	5-*	6-*	7-1	
AESP6	Screws, Tapping, Flat Trim Head, Type IA Cross Recess	2-2	3-6	4-1	5-*	6-*	7-1	
AESP7	Screws, Tapping, Flat Trim Head, Type II Cross Recess	2-2	3-6	4-1	5-*	6-*	7-1	
AESP8	Screws, Tapping, Oval Trim Head, Type I Cross Recess	2-2	3-6	4-1	5-*	6-*	7-1	
AESP9	Screws, Tapping, Oval Trim Head, Type IA Cross Recess	2-2	3-6	4-1	5-*	6-*	7-1	
AESQ0	Screws, Tapping, Oval Trim Head, Type II Cross Recess	2-2	3-6	4-1	5-*	6-*	7-1	
AESQ1	Screws, Tapping, Pan Head, Slotted	2-2	3-6	4-1	5-*	6-*	7-1	
AESQ2	Screws, Tapping, Pan Head, Type I Cross Recess	2-2	3-6	4-1	5-*	6-*	7-1	
AESQ3	Screws, Tapping, Pan Head, Type IA Cross Recess	2-2	3-6	4-1	5-*	6-*	7-1	
AESQ4	Screws, Tapping, Pan Head, Type II Cross Recess	2-2	3-6	4-1	5-*	6-*	7-1	
AESQ9	Screws, Tapping, Fillister Head, Slotted	2-2	3-6	4-1	5-*	6-*	7-1	
AESR0	Screws, Tapping, Fillister Head, Type I Cross Recess	2-2	3-6	4-1	5-*	6-*	7-1	
AESR1	Screws, Tapping, Fillister Head, Type IA Cross Recess	2-2	3-6	4-1	5-*	6-*	7-1	
		<i>Field Length = 1, 3, 3, 3, 2, 1,</i>						

Table 1-1 Fastener Family and Type / Base PIN (Cont'd)

Screws (Cont'd)		Applicable		Thread	Size	Lg/Other	Material	Finish	Feature
		Table References:							
B18.6.4 Thread Forming and Thread Cutting Tapping Screws and Metallic Drive Screws (Inch Series) (Cont'd)		Field 2	3	4	5	6	7		
AESR2	Screws, Tapping, Fillister Head, Type II Cross Recess	2-2	3-6	4-1	5-*	6-*	7-1		
AESR4	Screws, Tapping, Truss Head, Slotted	2-2	3-6	4-1	5-*	6-*	7-1		
AESR5	Screws, Tapping, Truss Head, Type I Cross Recess	2-2	3-6	4-1	5-*	6-*	7-1		
AESR6	Screws, Tapping, Truss Head, Type IA Cross Recess	2-2	3-6	4-1	5-*	6-*	7-1		
AESR7	Screws, Tapping, Truss Head, Type II Cross Recess	2-2	3-6	4-1	5-*	6-*	7-1		
AESS1	Screws, Tapping, Regular Hex Head, Indented, Unslotted	2-2	3-6	4-1	5-*	6-*	7-1		
AESS2	Screws, Tapping, Regular Hex Head, Indented, Slotted	2-2	3-6	4-1	5-*	6-*	7-1		
AESS3	Screws, Tapping, Regular Hex Head, Trimmed, Unslotted	2-2	3-6	4-1	5-*	6-*	7-1		
AESS4	Screws, Tapping, Regular Hex Head, Trimmed, Slotted	2-2	3-6	4-1	5-*	6-*	7-1		
AESS5	Screws, Tapping, Regular Hex Head, Fully Upset, Unslotted	2-2	3-6	4-1	5-*	6-*	7-1		
AESS6	Screws, Tapping, Regular Hex Head, Fully Upset, Slotted	2-2	3-6	4-1	5-*	6-*	7-1		
AESS7	Screws, Tapping, Large Hex Head, Indented, Unslotted	2-2	3-6	4-1	5-*	6-*	7-1		
AESS8	Screws, Tapping, Large Hex Head, Indented, Slotted	2-2	3-6	4-1	5-*	6-*	7-1		
AESS9	Screws, Tapping, Large Hex Head, Trimmed, Unslotted	2-2	3-6	4-1	5-*	6-*	7-1		
AEST0	Screws, Tapping, Large Hex Head, Trimmed, Slotted	2-2	3-6	4-1	5-*	6-*	7-1		
AEST1	Screws, Tapping, Large Hex Head, Fully Upset, Unslotted	2-2	3-6	4-1	5-*	6-*	7-1		
AEST2	Screws, Tapping, Large Hex Head, Fully Upset, Slotted	2-2	3-6	4-1	5-*	6-*	7-1		
AEST3	Screws, Tapping, Regular Hex Head, Indented, Type I Recess	2-2	3-6	4-1	5-*	6-*	7-1		
AEST4	Screws, Tapping, Regular Hex Head, Trimmed, Type I Recess	2-2	3-6	4-1	5-*	6-*	7-1		
AEST5	Screws, Tapping, Regular Hex Head, Fully Upset, Type I Recess	2-2	3-6	4-1	5-*	6-*	7-1		
AEST6	Screws, Tapping, Large Hex Head, Indented, Type I Recess	2-2	3-6	4-1	5-*	6-*	7-1		
AEST7	Screws, Tapping, Large Hex Head, Trimmed, Type I Recess	2-2	3-6	4-1	5-*	6-*	7-1		
AEST8	Screws, Tapping, Large Hex Head, Fully Upset, Type I Recess	2-2	3-6	4-1	5-*	6-*	7-1		
AEST9	Screws, Tapping, Hex Washer Head, Indented, Unslotted	2-2	3-6	4-1	5-*	6-*	7-1		
AESU0	Screws, Tapping, Hex Washer Head, Indented, Slotted	2-2	3-6	4-1	5-*	6-*	7-1		
AESU1	Screws, Tapping, Hex Washer Head, Indented, Type I Cross Recess	2-2	3-6	4-1	5-*	6-*	7-1		
AESU3	Screws, Tapping, Round Washer Head, Slotted	2-2	3-6	4-1	5-*	6-*	7-1		
AESU4	Screws, Tapping, Round Washer Head, Type I Cross Recess	2-2	3-6	4-1	5-*	6-*	7-1		
AESU5	Screws, Tapping, Round Head, Slotted	2-2	3-6	4-1	5-*	6-*	7-1		
AESU6	Screws, Tapping, Round Head, Type I Cross Recess	2-2	3-6	4-1	5-*	6-*	7-1		
AESU7	Screws, Tapping, Round Head, Type IA Cross Recess	2-2	3-6	4-1	5-*	6-*	7-1		
AESU8	Screws, Tapping, Round Head, Type II Cross Recess	2-2	3-6	4-1	5-*	6-*	7-1		
AESV2	Screws, Tapping, Round Head Type U Metallic Drive	2-2	3-2	4-1	5-*	6-*	7-1		
B18.6.5M Metric Thread-Forming and Thread-Cutting Tapping Screws		Field 2	3	4	5	6	7		
AESV3	Screws, Tapping, Flat Head, Slotted	2-2	3-7	4-2	5-*	6-*	7-1		
AESV4	Screws, Tapping, Flat Head, Type A, Type I Cross Recess	2-2	3-7	4-2	5-*	6-*	7-1		
AESV5	Screws, Tapping, Flat Head, Type A, Type IA Cross Recess	2-2	3-7	4-2	5-*	6-*	7-1		
AESV6	Screws, Tapping, Flat Head, Type A, Type III Square Recess	2-2	3-7	4-2	5-*	6-*	7-1		
AESV7	Screws, Tapping, Flat Head, Type B, Type I Cross Recess	2-2	3-7	4-2	5-*	6-*	7-1		
AESV8	Screws, Tapping, Flat Head, Type B, Type IA Cross Recess	2-2	3-7	4-2	5-*	6-*	7-1		
AESV9	Screws, Tapping, Flat Head, Type B, Type III Square Recess	2-2	3-7	4-2	5-*	6-*	7-1		
AESW0	Screws, Tapping, Oval Head, Slotted	2-2	3-7	4-2	5-*	6-*	7-1		
AESW1	Screws, Tapping, Oval Head, Type I Cross Recess	2-2	3-7	4-2	5-*	6-*	7-1		
AESW2	Screws, Tapping, Oval Head, Type IA Cross Recess	2-2	3-7	4-2	5-*	6-*	7-1		
AESW3	Screws, Tapping, Oval Head, Type III Square Recess	2-2	3-7	4-2	5-*	6-*	7-1		
AESW4	Screws, Tapping, Pan Head, Slotted	2-2	3-7	4-2	5-*	6-*	7-1		
AESW5	Screws, Tapping, Pan Head, Type I Cross Recess	2-2	3-7	4-2	5-*	6-*	7-1		
AESW6	Screws, Tapping, Pan Head, Type IA Cross Recess	2-2	3-7	4-2	5-*	6-*	7-1		
AESW7	Screws, Tapping, Pan Head, Type III Square Recess	2-2	3-7	4-2	5-*	6-*	7-1		
AESX1	Screws, Tapping, Hex Head, Indented, Unslotted	2-2	3-7	4-2	5-*	6-*	7-1		
AESX2	Screws, Tapping, Hex Head, Indented, Slotted	2-2	3-7	4-2	5-*	6-*	7-1		
AESX3	Screws, Tapping, Hex Head, Trimmed, Unslotted	2-2	3-7	4-2	5-*	6-*	7-1		
AESX4	Screws, Tapping, Hex Head, Trimmed, Slotted	2-2	3-7	4-2	5-*	6-*	7-1		
AESX5	Screws, Tapping, Hex Head, Fully Upset, Unslotted	2-2	3-7	4-2	5-*	6-*	7-1		
		Field Length = 1,		3,	3,	3,	2,	1,	

Table 1-1 Fastener Family and Type / Base PIN (Cont'd)

Screws (Cont'd)		Applicable Table References:	Thread	Size	Lg/Other	Material	Finish	Feature
B18.6.5M	Metric Thread-Forming and Thread-Cutting Tapping Screws (Cont'd)	<i>Field 2</i>	3	4	5	6	7	
AESX6	Screws, Tapping, Hex Head, Fully Upset, Slotted	2-2	3-7	4-2	5-*	6-*	7-1	
AESX7	Screws, Tapping, Hex Flange Head, Unslotted	2-2	3-7	4-2	5-*	6-*	7-1	
AESX8	Screws, Tapping, Hex Flange Head, Slotted	2-2	3-7	4-2	5-*	6-*	7-1	
B18.6.7M	Metric Machine Screws	<i>Field 2</i>	3	4	5	6	7	
AESY0	Screws, Machine, Flat Head, Slotted	2-1	3-3	4-2	5-*	6-*	7-2	
AESY1	Screws, Machine, Flat Head, Type A, Type I Cross Recess	2-1	3-3	4-2	5-*	6-*	7-2	
AESY2	Screws, Machine, Flat Head, Type A, Type IA Cross Recess	2-1	3-3	4-2	5-*	6-*	7-2	
AESY3	Screws, Machine, Flat Head, Type A, Type III Square Recess	2-1	3-3	4-2	5-*	6-*	7-2	
AESY4	Screws, Machine, Flat Head, Type B, Type I Cross Recess	2-1	3-3	4-2	5-*	6-*	7-2	
AESY5	Screws, Machine, Flat Head, Type B, Type IA Cross Recess	2-1	3-3	4-2	5-*	6-*	7-2	
AESY6	Screws, Machine, Flat Head, Type B, Type III Square Recess	2-1	3-3	4-2	5-*	6-*	7-2	
AESY7	Screws, Machine, Oval Head, Slotted	2-1	3-3	4-2	5-*	6-*	7-2	
AESY8	Screws, Machine, Oval Head, Type I Cross Recess	2-1	3-3	4-2	5-*	6-*	7-2	
AESY9	Screws, Machine, Oval Head, Type IA Cross Recess	2-1	3-3	4-2	5-*	6-*	7-2	
AESZ0	Screws, Machine, Oval Head, Type III Square Recess	2-1	3-3	4-2	5-*	6-*	7-2	
AESZ1	Screws, Machine, Pan Head, Slotted	2-1	3-3	4-2	5-*	6-*	7-2	
AESZ2	Screws, Machine, Pan Head, Type I Cross Recess	2-1	3-3	4-2	5-*	6-*	7-2	
AESZ3	Screws, Machine, Pan Head, Type IA Cross Recess	2-1	3-3	4-2	5-*	6-*	7-2	
AESZ4	Screws, Machine, Pan Head, Type III Square Recess	2-1	3-3	4-2	5-*	6-*	7-2	
AESZ8	Screws, Machine, Hex Head, Indented, Unslotted	2-1	3-3	4-2	5-*	6-*	7-2	
AESZ9	Screws, Machine, Hex Head, Indented, Slotted	2-1	3-3	4-2	5-*	6-*	7-2	
AESZA	Screws, Machine, Hex Head, Trimmed, Unslotted	2-1	3-3	4-2	5-*	6-*	7-2	
AESZB	Screws, Machine, Hex Head, Trimmed, Slotted	2-1	3-3	4-2	5-*	6-*	7-2	
AESZC	Screws, Machine, Hex Head, Fully Upset, Unslotted	2-1	3-3	4-2	5-*	6-*	7-2	
AESZD	Screws, Machine, Hex Head, Fully Upset, Slotted	2-1	3-3	4-2	5-*	6-*	7-2	
AESZE	Screws, Machine, Hex Flange Head, Slotted	2-1	3-3	4-2	5-*	6-*	7-2	
AESZF	Screws, Machine, Hex Flange Head, Unslotted	2-1	3-3	4-2	5-*	6-*	7-2	
B18.11	Miniature Screws (Inch Series)	<i>Field 2</i>	3	4	5	6	7	
AESZG	Screws, Miniature, Fillister Head	2-1	3-5	4-3	5-*	6-*	7-1	
AESZH	Screws, Miniature, Pan Head	2-1	3-5	4-3	5-*	6-*	7-1	
AESZJ	Screws, Miniature, 100 deg Flat Head	2-1	3-5	4-3	5-*	6-*	7-1	
AESZK	Screws, Miniature, Binding Head	2-1	3-5	4-3	5-*	6-*	7-1	

Studs

B18.15	Forged Eyebolts (Inch Series)	<i>Field 2</i>	3	4	5	6	7	
AET01	Bolts, Eye, Straight Shank, Type 1, Plain Pattern Style A	2-1	3-1	4-6	5-*	6-*	7-1	
AET02	Bolts, Eye, Straight Shank, Type 1, Plain Pattern Style B	2-1	3-1	4-6	5-*	6-*	7-1	
AET03	Bolts, Eye, Shoulder Pattern, Type 2, Style A	2-1	3-1	4-6	5-*	6-*	7-1	
AET04	Bolts, Eye, Shoulder Pattern, Type 2, Style B	2-1	3-1	4-6	5-*	6-*	7-1	
B18.15.1M	Metric Forged Lifting Eyes	<i>Field 2</i>	3	4	5	6	7	
AET05	Lifting Eye, Forged	2-1	3-3	4-2	5-*	6-*	7-1	
B18.15.2M	Metric Straight Shank Lifting Eyes	<i>Field 2</i>	3	4	5	6	7	
AET06	Lifting Eye, Straight Shank	2-1	3-3	4-2	5-*	6-*	7-1	
B18.31.1M	Metric Continuous and Double-Ended Studs	<i>Field 2</i>	3	4	5	6	7	
AET07	Studs, Continuous Thread	2-1	3-3	4-2	5-*	6-*	7-2	
AET08	Studs, Double End (Clamping Type)	2-1	3-3	4-2	5-*	6-*	7-2	
AET09	Studs, Double End (Tap End Type)	2-1	3-3	4-2	5-*	6-*	7-2	
		<i>Field Length = 1, 3, 3, 3, 2, 1,</i>						

Table 1-1 Fastener Family and Type / Base PIN (Cont'd)

		Applicable Table References:		Thread	Size	Lg/Other	Material	Finish	Feature
Rivets									
B18.1.1	Small Solid Rivets (Inch Series)	Field 2	3	4	5	6	7		
AEV01	Rivets, Small, Solid, Flat Head	2-1	3-2	4-1	5-*	6-*	7-3		
AEV02	Rivets, Small, Solid, Flat Countersunk Head	2-1	3-2	4-1	5-*	6-*	7-3		
AEV03	Rivets, Small, Solid, Button Head	2-1	3-2	4-1	5-*	6-*	7-3		
AEV04	Rivets, Small, Solid, Pan Head	2-1	3-2	4-1	5-*	6-*	7-3		
AEV05	Rivets, Small, Solid, Truss Head	2-1	3-2	4-1	5-*	6-*	7-3		
AEV06	Rivets, Small, Solid, Tinnets	2-1	3-14	4-1	5-*	6-*	7-3		
AEV07	Rivets, Small, Solid, Coopers	2-1	3-14	4-1	5-*	6-*	7-3		
AEV08	Rivets, Small, Solid, Belt	2-1	3-15	4-1	5-*	6-*	7-3		
AEV09	Rivets, Small, Solid, 60 Deg Flat Countersunk Head	2-1	3-15	4-1	5-*	6-*	7-3		
B18.1.2	Large Rivets (Inch Series)	Field 2	3	4	5	6	7		
AEV10	Rivets, Large, Button Head	2-1	3-2	4-1	5-*	6-*	7-6		
AEV11	Rivets, Large, High Button (Acorn) Head	2-1	3-2	4-1	5-*	6-*	7-6		
AEV12	Rivets, Large, Cone Head	2-1	3-2	4-1	5-*	6-*	7-6		
AEV13	Rivets, Large, Flat Countersunk Head	2-1	3-2	4-1	5-*	6-*	7-6		
AEV14	Rivets, Large, Oval Countersunk Head	2-1	3-2	4-1	5-*	6-*	7-6		
AEV15	Rivets, Large, Pan Head	2-1	3-2	4-1	5-*	6-*	7-6		
B18.1.3M	Metric Small Solid Rivets	Field 2	3	4	5	6	7		
AEV16	Rivets, Small, Solid, Flat Head	2-1	3-4	4-2	5-*	6-*	7-3		
AEV17	Rivets, Small, Solid, Round Head	2-1	3-4	4-2	5-*	6-*	7-3		
AEV18	Rivets, Small, Solid, Flat Countersunk Head	2-1	3-4	4-2	5-*	6-*	7-3		
B18.7	General Purpose Semi-Tubular Rivets, Full Tubular Rivets, Split Rivets, and Rivet Caps (Inch Series)	Field 2	3	4	5	6	7		
AEV19	Rivets, General Purpose, Oval Head Semi-Tubular, Type T	2-1	3-16	4-1	5-*	6-*	7-1		
AEV20	Rivets, General Purpose, Oval Head Semi-Tubular, Type S	2-1	3-16	4-1	5-*	6-*	7-1		
AEV21	Rivets, General Purpose, Truss Head Semi-Tubular, Type T	2-1	3-16	4-1	5-*	6-*	7-1		
AEV22	Rivets, General Purpose, Truss Head Semi-Tubular, Type S	2-1	3-16	4-1	5-*	6-*	7-1		
AEV23	Rivets, General Purpose, 150 deg Flat C sunk Head Semi-Tubular	2-1	3-16	4-1	5-*	6-*	7-1		
AEV24	Rivets, General Purpose, 150 deg Large Flat C sunk Head Semi-Tubular	2-1	3-16	4-1	5-*	6-*	7-1		
AEV25	Rivets, General Purpose, 120 deg Flat C sunk Head Semi-Tubular Type T	2-1	3-16	4-1	5-*	6-*	7-1		
AEV26	Rivets, General Purpose, 120 deg Flat C sunk Head Semi-Tubular Type S	2-1	3-16	4-1	5-*	6-*	7-1		
AEV27	Rivets, General Purpose, Full Tubular Oval	2-1	3-16	4-1	5-*	6-*	7-1		
AEV28	Rivets, General Purpose, Full Tubular Truss	2-1	3-16	4-1	5-*	6-*	7-1		
AEV29	Rivets, General Purpose, Full Tubular Flat Countersunk	2-1	3-16	4-1	5-*	6-*	7-1		
AEV30	Rivets, General Purpose, Oval Head Split	2-1	3-16	4-1	5-*	6-*	7-1		
AEV31	Rivets, General Purpose, Flat Countersunk Head Split	2-1	3-16	4-1	5-*	6-*	7-1		
AEV32	Rivets, General Purpose, Cap Style 1	2-1	3-17	4-1	5-*	6-*	7-1		
AEV33	Rivets, General Purpose, Cap Style 2	2-1	3-17	4-1	5-*	6-*	7-1		
B18.7.1M	Metric General Purpose Semi-Tubular Rivets	Field 2	3	4	5	6	7		
AEV34	Rivets, General Purpose, Oval Head Semi-Tubular	2-1	3-4	4-2	5-*	6-*	7-1		

Washers

B18.2.6 Fasteners for Use in Structural Applications (Inch Series)		Field 2	3	4	5	6	7
AEW01	Washers, Structural, Hardened Steel Circular	2-1	3-2	4-1	5-*	6-*	7-1
AEW02	Washers, Structural, Hardened Steel Circular Clipped	2-1	3-2	4-1	5-*	6-*	7-1
AEW03	Washers, Structural, Hardened Square Beveled	2-1	3-2	4-1	5-*	6-*	7-1
AEW04	Washers, Structural, Hardened Clipped Square Beveled	2-1	3-2	4-1	5-*	6-*	7-1
AEW05	Washers, Structural, Compressible, Type Direct Tension Indicators (ASTM A 490)	2-1	3-2	4-1	5-*	6-*	7-1
AEW06	Washers, Structural, Compressible, Type Direct Tension Indicators (ASTM A 325)	2-1	3-2	4-1	5-*	6-*	7-1
		Field Length = 1,	3,	3,	3,	2,	1,

Table 1-1 Fastener Family and Type / Base PIN (Cont'd)**Washers (Cont'd)**

		Applicable Table References:	Thread	Size	Lg/Other	Material	Finish	Feature
B18.21.1 Lock Washers (Inch Series)		Field 2	3	4	5	6	7	
AEW07	Washers, Lock, Regular Helical Spring	2-1	3-1	4-1	5-*	6-*	7-1	
AEW08	Washers, Lock, Heavy Helical Spring	2-1	3-1	4-1	5-*	6-*	7-1	
AEW09	Washers, Lock, Extra Duty Helical Spring	2-1	3-1	4-1	5-*	6-*	7-1	
AEW10	Washers, Lock, Hi-Collar Helical Spring	2-1	3-1	4-1	5-*	6-*	7-1	
AEW11	Washers, Lock, Internal Tooth	2-1	3-1	4-1	5-*	6-*	7-1	
AEW12	Washers, Lock, Heavy Internal Tooth	2-1	3-1	4-1	5-*	6-*	7-1	
AEW13	Washers, Lock, External Tooth	2-1	3-1	4-1	5-*	6-*	7-1	
AEW14	Washers, Lock, Countersunk External Tooth	2-1	3-1	4-1	5-*	6-*	7-1	
AEW15	Washers, Lock, Internal-External Tooth	2-1	3-25	4-1	5-*	6-*	7-1	
B18.21.2M Metric Lock Washers		Field 2	3	4	5	6	7	
AEW16	Washers, Lock, Regular Helical Spring	2-1	3-4	4-2	5-*	6-*	7-1	
AEW17	Washers, Lock, Heavy Helical Spring	2-1	3-4	4-2	5-*	6-*	7-1	
AEW18	Washers, Lock, Internal Tooth	2-1	3-4	4-2	5-*	6-*	7-1	
AEW19	Washers, Lock, Heavy Internal Tooth	2-1	3-4	4-2	5-*	6-*	7-1	
AEW20	Washers, Lock, External Tooth	2-1	3-4	4-2	5-*	6-*	7-1	
AEW21	Washers, Lock, Countersunk External Tooth	2-1	3-4	4-2	5-*	6-*	7-1	
AEW22	Washers, Lock, External-Internal Tooth	2-1	3-27	4-2	5-*	6-*	7-1	
B18.22M Metric Plain Washers		Field 2	3	4	5	6	7	
AEW23	Washers, Plain	2-1	3-26	4-2	5-*	6-*	7-1	
B18.22.1 Plain Washers (Inch Series)		Field 2	3	4	5	6	7	
AEW24	Washers, Plain, Type A Preferred Sizes	2-1	3-22	4-1	5-*	6-*	7-1	
AEW25	Washers, Plain, Type A Selected Sizes	2-1	3-23	4-1	5-*	6-*	7-1	
AEW26	Washers, Plain, Type B Plain Sizes	2-1	3-24	4-1	5-*	6-*	7-1	
<i>Field Length =</i>			<i>1,</i>	<i>3,</i>	<i>3,</i>	<i>3,</i>	<i>2,</i>	<i>1,</i>

Table 2-1 Thread Type

PIN	Thread Series
C	[Note (1)] UNC-2
U	[Note (1)] UNC-3
F	[Note (1)] UNF-2
K	[Note (1)] UNF-3
R	[Note (1)] UNRC-2
Q	[Note (1)] UNRF-2
E	[Note (1)] UNEF-2
N	UNM
S	[Note (1)] 1-14 UNS-2 and small machine screw NS threads
D	6UN
G	8UN
H	8UNR
B	12UN
L	Lag Screw Thread
W	Wood Screw Thread
M	[Note (2)] Metric
X	Nonthreaded Fastener

NOTES:

- (1) -2 or -3 refers to -2A and -2B or -3A or -3B, respectively, as applicable.
 (2) Metric, except where PINs “L,” “W,” or “X” are applicable.

Table 2-2 Thread and Point Options for Tapping Screws

PIN	Description
A	Type AB Thread Forming Tapping Screw
B	Type B Thread Forming Tapping Screw
L	Type BF Thread Cutting Tapping Screw
P	Type BP Thread Forming Tapping Screw
R	Type BT Thread Cutting Tapping Screw
C	Type C Thread Forming Tapping Screw
D	Type D Thread Cutting Tapping Screw
F	Type F Thread Cutting Tapping Screw
G	Type G Thread Cutting Tapping Screw
T	Type T Thread Cutting Tapping Screw
Z	Type A Thread Forming Tapping Screw
U	Type U Metallic Drive Screw

Table 3-1 Inch Thread (a)

PIN	Size	Dia. (in.)
021	0000	.021-160 NS only
034	000	.034-120 NS only
04A	00	.047-90 NS-2 only
04B	00	.047-96 NS-2 only
060	0	.060
073	1	.073
086	2	.086
099	3	.099
112	4	.112
125	5	.125
138	6	.138
164	8	.164
190	10	.190
216	12	.216
250	$\frac{1}{4}$	.250
268	14	.268
312	$\frac{5}{16}$	.3125
375	$\frac{3}{8}$	.375
438	$\frac{7}{16}$	.4375
500	$\frac{1}{2}$	.500
562	$\frac{9}{16}$	.5625
625	$\frac{5}{8}$	.625
688	-	.6875
750	$\frac{3}{4}$	.750
812	$\frac{13}{16}$	.8125
875	$\frac{7}{8}$	.875
938	$\frac{15}{16}$	.9375
A00	1	1.000
A06	$1\frac{1}{16}$	1.0625
A12	$1\frac{1}{8}$	1.125
A18	$\frac{13}{16}$	1.1875
A25	$1\frac{1}{4}$	1.250
A31	-	1.3125
A37	$1\frac{3}{8}$	1.375
A43	-	1.4375
A50	$1\frac{1}{2}$	1.500
A62	$1\frac{5}{8}$	1.625
A75	$1\frac{3}{4}$	1.750
A87	$1\frac{7}{8}$	1.875
B00	2	2.000
B25	$2\frac{1}{4}$	2.250
B50	$2\frac{1}{2}$	2.500
B75	$2\frac{3}{4}$	2.750
C00	3	3.000
C25	$3\frac{1}{4}$	3.250
C50	$3\frac{1}{2}$	3.500
C75	$3\frac{3}{4}$	3.750
D00	4	4.000
D25	$4\frac{1}{4}$	4.250
D50	$4\frac{1}{2}$	4.500
D75	$4\frac{3}{4}$	4.750
E00	5	5.000

Table 3-1 Inch Thread (Cont'd)

PIN	Size	Dia. (in.)
E25	$5\frac{1}{4}$	5.250
E50	$5\frac{1}{2}$	5.500
E75	$5\frac{3}{4}$	5.750
F00	6	6.000

Table 3-2 Inch Size (a)

PIN	Size	Size/Length (in.)
031	$\frac{1}{32}$	.031
039	-	.039
047	$\frac{3}{64}$	.047
052	-	.052
060	-	.060
062	$\frac{1}{16}$	.062
075	-	.075
078	$\frac{5}{64}$	.078
093	$\frac{3}{32}$	.093
010	-	.100
109	$\frac{7}{64}$	.109
116	-	.116
125	$\frac{1}{8}$	.125
140	-	.140
141	$\frac{9}{64}$	.141
154	-	.154
156	$\frac{5}{32}$	.156
167	-	.167
182	-	.182
187	-	.187
188	$\frac{3}{16}$	.188
212	-	.212
219	$\frac{7}{32}$	.219
242	-	.242
250	$\frac{1}{4}$	.250
281	$\frac{9}{32}$	.281
312	$\frac{5}{16}$	.312
315	-	.315
344	$\frac{11}{32}$	.344
359	$\frac{23}{64}$	.359
375	$\frac{3}{8}$	.375
378	-	.378
406	$\frac{13}{32}$	.406
438	$\frac{7}{16}$	.438
500	$\frac{1}{2}$	.500
562	$\frac{9}{16}$	.562
625	$\frac{5}{8}$	.625
688	$\frac{11}{16}$	.688
750	$\frac{3}{4}$	.750
812	$\frac{13}{16}$	.812
875	$\frac{7}{8}$	.875
938	$\frac{15}{16}$	.938
A00	1	1.000

Table 3-2 Inch Size (Cont'd)

PIN	Size	Size/Length (in.)
A12	$1\frac{1}{8}$	1.125
A25	$1\frac{1}{4}$	1.250
A37	$1\frac{3}{8}$	1.375
A50	$1\frac{1}{2}$	1.500
A62	$1\frac{5}{8}$	1.625
A75	$1\frac{3}{4}$	1.750
A87	$1\frac{7}{8}$	1.875
B00	2	2.000
B12	$2\frac{1}{8}$	2.125
B25	$2\frac{1}{4}$	2.250
B37	$2\frac{3}{8}$	2.375
B50	$2\frac{1}{2}$	2.500
B62	$2\frac{5}{8}$	2.625
B75	$2\frac{3}{4}$	2.750
B87	$2\frac{7}{8}$	2.875
C00	3	3.000
C12	$3\frac{1}{8}$	3.125
C25	$3\frac{1}{4}$	3.250
C37	$3\frac{3}{8}$	3.375
C50	$3\frac{1}{2}$	3.500
C62	$3\frac{5}{8}$	3.625
C75	$3\frac{3}{4}$	3.750
C87	$3\frac{7}{8}$	3.875
D00	4	4.000
D12	$4\frac{1}{8}$	4.125
D25	$4\frac{1}{4}$	4.250
D37	$4\frac{3}{8}$	4.375
D50	$4\frac{1}{2}$	4.500
D62	$4\frac{5}{8}$	4.625
D75	$4\frac{3}{4}$	4.750
D87	$4\frac{7}{8}$	4.875
E00	5	5.000
E12	$5\frac{1}{8}$	5.125
E25	$5\frac{1}{4}$	5.250
E37	$5\frac{3}{8}$	5.375
E50	$5\frac{1}{2}$	5.500
E62	$5\frac{5}{8}$	5.625
E75	$5\frac{3}{4}$	5.750
E87	$5\frac{7}{8}$	5.875
F00	6	6.000
F12	$6\frac{1}{8}$	6.125
F25	$6\frac{1}{4}$	6.250
F37	$6\frac{3}{8}$	6.375
F50	$6\frac{1}{2}$	6.500
F62	$6\frac{5}{8}$	6.625
F75	$6\frac{3}{4}$	6.750
F87	$6\frac{7}{8}$	6.875
G00	7	7.000
G12	$7\frac{1}{8}$	7.125
G25	$7\frac{1}{4}$	7.250
G37	$7\frac{3}{8}$	7.375
G50	$7\frac{1}{2}$	7.500

Table 3-2 Inch Size (Cont'd)

PIN	Size	Size/Length (in.)
G62	$7\frac{5}{8}$	7.625
G75	$7\frac{3}{4}$	7.750
G87	$7\frac{7}{8}$	7.875
H00	8	8.000
H12	$8\frac{1}{8}$	8.125
H25	$8\frac{1}{4}$	8.250
H37	$8\frac{3}{8}$	8.375
H50	$8\frac{1}{2}$	8.500
H75	$8\frac{3}{4}$	8.750
J00	9	9.000
J25	$9\frac{1}{4}$	9.250
J50	$9\frac{1}{2}$	9.500
J75	$9\frac{3}{4}$	9.750
K00	10	10.000
K02	$10\frac{1}{4}$	10.250
K05	$10\frac{1}{2}$	10.500
K07	$10\frac{3}{4}$	10.750
K10	11	11.000
K12	$11\frac{1}{4}$	11.250
K15	$11\frac{1}{2}$	11.500
K17	$11\frac{3}{4}$	11.750
K20	12	12.000
K22	$12\frac{1}{4}$	12.250
K25	$12\frac{1}{2}$	12.500
K27	$12\frac{3}{4}$	12.750
K30	13	13.000
K40	14	14.000
K50	15	15.000
K60	16	16.000
K70	17	17.000
K80	18	18.000
K90	19	19.000
L00	20	20.000

Table 3-3 Metric Thread (a)

PIN	Diameter (mm)/ Pitch
163	M1.6 × 0.35
204	M2 × 0.4
254	M2.5 × 0.45
305	M3 × 0.5
356	M3.5 × 0.6
407	M4 × 0.7
508	M5 × 0.8
06A	M6 × 1
08B	M8 × 1.25
08A	M8 × 1
10Z	M10 × 1.5 (15 mm WAF)
10C	M10 × 1.5
10B	M10 × 1.25
10A	M10 × 1

Table 3-3 Metric Thread (Cont'd)

PIN	Diameter (mm)/ Pitch
107	M10 × 0.75
12D	M12 × 1.75
12C	M12 × 1.5
12B	M12 × 1.25
12A	M12 × 1
14E	M14 × 2
14C	M14 × 1.5
15A	M15 × 1
16E	M16 × 2
07A	M7 × 1
16C	M16 × 1.5
17A	M17 × 1
18C	M18 × 1.5
18E	M18 × 2
18F	M18 × 2.5
20F	M20 × 2.5
20C	M20 × 1.5
20E	M20 × 2
20A	M20 × 1
22F	M22 × 2.5
22C	M22 × 1.5
24G	M24 × 3
24E	M24 × 2
25C	M25 × 1.5
27G	M27 × 3
27E	M27 × 2
30H	M30 × 3.5
30E	M30 × 2
30C	M30 × 1.5
30G	M30 × 3
33E	M33 × 2
33G	M33 × 3
35C	M35 × 1.5
36J	M36 × 4
36E	M36 × 2
36G	M36 × 3
39E	M39 × 2
39G	M39 × 3
40C	M40 × 1.5
42K	M42 × 4.5
42E	M42 × 2
45C	M45 × 1.5
48L	M48 × 5
48E	M48 × 2
50C	M50 × 1.5
56M	M56 × 5.5
64N	M64 × 6
72N	M72 × 6
80N	M80 × 6
90N	M90 × 6
C0N	M100 × 6

Table 3-4 Metric Size

PIN	Size/Length (mm)
06M	0.6
08M	0.8
10M	1.0
12M	1.2
14M	1.4
15M	1.5
16M	1.6
20M	2.0
22M	2.2
25M	2.5
29M	2.9
30M	3.0
32M	3.2
35M	3.5
40M	4.0
42M	4.2
48M	4.8
50M	5.0
55M	5.5
60M	6.0
63M	6.3
70M	7.0
80M	8.0
90M	9.0
95M	9.5
010	10
011	11
012	12
013	13
014	14
015	15
016	16
017	17
018	18
019	19
020	20
021	21
022	22
023	23
024	24
025	25
026	26
027	27
028	28
030	30
032	32
033	33
034	34

Table 3-4 Metric Size

PIN	Size/Length (mm)
035	35
036	36
037	37
038	38
040	40
042	42
045	45
046	46
047	47
048	48
050	50
052	52
055	55
056	56
057	57
058	58
060	60
062	62
063	63
065	65
068	68
070	70
072	72
075	75
078	78
080	80
082	82
085	85
088	88
090	90
092	92
095	95
098	98
100	100
102	102
105	105
108	108

Table 3-4 Metric Size

PIN	Size/Length (mm)
110	110
115	115
120	120
125	125
130	130
135	135
140	140
145	145
150	150
155	155
160	160
165	165
175	175
180	180
185	185
190	190
200	200
210	210
220	220
230	230
240	240
250	250
260	260
280	280
300	300
320	320
360	360
400	400

Table 3-5 Miniature Screw Thread

PIN	Thread	Size (mm)
030	0.30 UNM	0.30 (0.0118 inch)
035	0.35 UNM	0.35 (0.0138 inch)
040	0.40 UNM	0.40 (0.0157 inch)
045	0.45 UNM	0.45 (0.0177 inch)
050	0.50 UNM	0.50 (0.0197 inch)
055	0.55 UNM	0.55 (0.0217 inch)
060	0.60 UNM	0.60 (0.0236 inch)
070	0.70 UNM	0.70 (0.0276 inch)
080	0.80 UNM	0.80 (0.0315 inch)
090	0.90 UNM	0.90 (0.0354 inch)
100	1.00 UNM	1.00 (0.0394 inch)
110	1.10 UNM	1.10 (0.0433 inch)
120	1.20 UNM	1.20 (0.0472 inch)
140	1.40 UNM	1.40 (0.0551 inch)

**Table 3-6 Inch Tapping
Screw Thread**

PIN	Description
060	.060-48 Types AB, B, BP, BF, BT
06A	.060-40 Type A
073	.073-42 Types AB, B, BP, BF, BT
07A	.073-32 Type A
086	.086-32 Types AB, B, BP, BF, BT
08A	.086-32 Type A
08F	.086-64 Types D, F, G, T, C
08C	.086-56 Types D, F, G, T, C
099	.099-28 Types AB, B, BP, BF, BT
09A	.099-28 Type A
09F	.099-56 Types D, F, G, T, C
09C	.099-48 Types D, F, G, T, C
112	.112-24 Types AB, B, BP, BF, BT
11A	.112-24 Type A
11F	.112-48 Types D, F, G, T, C
11C	.112-40 Types D, F, G, T, C
125	.125-20 Types AB, B, BP, BF, BT
12A	.125-20 Type A
12F	.125-44 Types D, F, G, T, C
12C	.125-40 Types D, F, G, T, C
138	.138-20 Types AB, B, BP, BF, BT
13A	.138-18 Type A
13F	.138-40 Types D, F, G, T, C
13C	.138-32 Types D, F, G, T, C
13R	.138 Trim Head Size 4 Types AB, A, B, C Coarse
13S	.138 Trim Head Size 5 Types AB, A, B, C Coarse
13T	.138 Trim Head Size 4 Type C Fine
13U	.138 Trim Head Size 5 Type C Fine
151	.151-19 Types AB, B, BP, BF, BT
15A	.151-16 Type A
164	.164-18 Types AB, B, BP, BF, BT
16A	.164-15 Type A
16F	.164-36 Types D, F, G, T, C
16C	.164-32 Types D, F, G, T, C
16R	.164 Trim Head Size 5 Types AB, A, B, C Coarse
16S	.164 Trim Head Size 6 Types AB, A, B, C Coarse
16T	.164 Trim Head Size 5 Type C Fine
16U	.164 Trim Head Size 6 Type C Fine
190	.190-16 Types AB, B, BP, BF, BT
19A	.190-12 Type A
19F	.190-32 Types D, F, G, T, C
19C	.190-24 Types D, F, G, T, C
216	.216-14 Types AB, B, BP, BF, BT

**Table 3-6 Inch Tapping
Screw Thread**

PIN	Description
21A	.216-11 Type A
21C	.216-24 Type D, F, G, T, C
21F	.216-28 Type D, F, G, T, C
21R	.216 Trim Head Size 8 Types AB, A, B, C Coarse
21S	.216 Trim Head Size 10 Types AB, A, B, C Coarse
21T	.216 Trim Head Size 8 Type C Fine
21U	.216 Trim Head Size 10 Type C Fine
24A	.242-10 Type A
24R	.242 Trim Head Size 10
24S	.242 Trim Head Size 12
250	.250-14 Types AB, B, BP, BF, BT
25F	.250-28 Types D, F, G, T, C
25C	.250-20 Types D, F, G, T, C
25R	.250 Trim Head Size 10 Types AB, A, B, C Coarse
25S	.250 Trim Head Size 12 Types AB, A, B, C Coarse
25T	.250 Trim Head Size 10 Type C Fine
25U	.250 Trim Head Size 12 Type C Fine
26A	.268-10 Type A
29A	.294-9 Type A
312	.3125-12 Types AB, B, BP, BF, BT
31F	.3125-24 Types D, F, G, T, C
31C	.3125-18 Types D, F, G, T, C
31R	.3125 Trim Head Size 12 Types AB, A, B, C Coarse
31S	.3125 Trim Head Size 1\4 Types AB, A, B, C Coarse
31T	.3125 Trim Head Size 12 Type C Fine
31U	.3125 Trim Head Size 1\4 Type C Fine
32A	.320-9 Type A
375	.375-12 Types AB, B, BP, BF, BT
37A	.372-9 Type A
37F	.375-24 Types D, F, G, T, C
37C	.375-16 Types D, F, G, T, C
438	.4375-10 Types AB, B, BP, BF, BT
43F	.4375-20 Types D, F, G, T, C
43C	.4375-14 Types D, F, G, T, C
500	.500-5 Types AB, B, BP, BF, BT
50F	.500-20 Types D, F, G, T, C
50C	.500-13 Types D, F, G, T, C

**Table 3-7 Metric Tapping (a)
Screw Thread**

PIN	Description
204	2 × 0.4
228	2.2 × 0.8
254	2.5 × 0.45
291	2.9 × 1.1
305	3 × 0.5
356	3.5 × 0.6
351	3.5 × 1.3
407	4 × 0.7
421	4.2 × 1.4
481	4.8 × 1.6
508	5 × 0.8
551	5.5 × 1.8
06A	6 × 1
631	6.3 × 1.8
08B	8 × 1.25
802	8 × 2.1
952	9.5 × 2.1
95Y	9.5 × 2.1 (15 mm width across flats)
10C	10 × 1.5
10Z	10 × 1.5 (15 mm width across flats)

**Table 3-8 Inch Hex Socket
Head Shoulder Screw Size**

PIN	Shoulder Diameter (in.)
250	.250
312	.312
375	.375
500	.500
625	.625
750	.750
A00	1.000
A25	1.250
A50	1.500
A75	1.750
B00	2.000

**Table 3-9 Metric Hex Socket
Head Shoulder Screw Size**

PIN	Shoulder Diameter (mm)
65M	6.5
80M	8
010	10
013	13
016	16
020	20
025	25

Table 3-10 Inch Spline Socket Set Screw Thread

PIN	Size	Description / No. of Splines (in.)
060	0	.060 4 Splines
073	1	.073 4 Splines
08A	2	.086 4 Splines
08B	2	.086 6 Splines
09A	3	.099 4 Splines
09B	3	.099 6 Splines
112	4	.112 6 Splines
12A	5	.125 4 Splines
12B	5	.125 6 Splines
13A	4	.138 4 Splines
13B	6	.138 6 Splines
164	8	.164 6 Splines
190	10	.190 6 Splines
250	$\frac{1}{4}$	.250 6 Splines
312	$\frac{5}{16}$	.3125 6 Splines
375	$\frac{3}{8}$	.375 6 Splines
438	$\frac{7}{16}$	.4375 6 Splines
500	$\frac{1}{2}$	.500 6 Splines
625	$\frac{5}{8}$	.625 6 Splines
750	$\frac{3}{4}$	.750 6 Splines
875	$\frac{7}{8}$	.875 6 Splines

Table 3-11 Inch Trim Head Machine Screw Size

PIN	Description
112	.112—3 Head Size
125	.125—4 Head Size
13A	.138—4 Head Size
13B	.138—5 Head Size
16A	.164—5 Head Size
16B	.164—6 Head Size
190	.190—8 Head Size
21A	.216—8 Head Size
21B	.216—10 Head Size
25A	.250—10 Head Size
25B	.250—12 Head Size
31A	.3125—12 Head Size
31B	.3125— $\frac{1}{4}$ Head Size
375	.375— $\frac{5}{16}$ Head Size

Table 3-12 Inch Wood (a) Screw Thread

PIN	Size	Diameter (in.) / Pitch
060	0	.060—32
073	1	.073—28
086	2	.086—26
099	3	.099—24
112	4	.112—22
125	5	.125—20
138	6	.138—18
151	7	.151—16
164	8	.164—15
177	9	.177—14
190	10	.190—13
216	12	.216—11
242	14	.242—10
268	16	.268—9
294	18	.294—8
320	20	.320—8
372	24	.372—7

Table 3-13 Inch Lag Screw Thread

PIN	Diameter (in.) / Pitch
190	.190—11
250	.250—10
312	.3125—9
375	.375—7
438	.4375—7
500	.500—6
625	.625—5
750	.750—4.5
875	.875—4
A00	1.000—3.5
A12	1.125—3.25
A25	1.250—3.25

Table 3-14 Inch Rivet Size Weight

PIN	Size Designation
06Z	6 oz
08Z	8 oz
10Z	10 oz
12Z	12 oz
14Z	14 oz
010	1 lb
012	1 $\frac{1}{4}$ lb
015	1 $\frac{1}{2}$ lb
017	1 $\frac{3}{4}$ lb
020	2 lb
025	2 $\frac{1}{2}$ lb
030	3 lb
035	3 $\frac{1}{2}$ lb
040	4 lb
050	5 lb
060	6 lb
070	7 lb
080	8 lb
090	9 lb
100	10 lb
120	12 lb
140	14 lb
160	16 lb
180	18 lb
200	20 lb
375	$\frac{3}{8}$ in.

Table 3-15 Inch Rivet Size Number (a)

PIN	Size Number
140	14
130	13
120	12
110	11
100	10
090	9
080	8
070	7
060	6
055	5 $\frac{1}{2}$
050	5
040	4

Table 3-16 Inch Rivet Size 1 (a)

PIN	Diameter (in.)
061	0.061
062	0.062
089	0.089
099	0.099
123	0.123
125	0.125
146	0.146
152	0.152
15L	0.152*
188	0.188
190	0.190
217	0.217
252	0.252
310	0.310

*Large Flat Countersunk Head

Table 3-17 Inch Rivet Size / Length

PIN	Length or O.D. (in.)
092	0.092
078	0.078
093	0.093
109	0.109
125	0.125
140	0.140
156	0.156
171	0.171
187	0.187
203	0.203
218	0.218
234	0.234
250	0.250
265	0.265
281	0.281
296	0.296
312	0.312
328	0.328
343	0.343
359	0.359
375	0.375
390	0.390
406	0.406
421	0.421
437	0.437
453	0.453
468	0.468
484	0.484
500	0.500
515	0.515
531	0.531

Table 3-17 Inch Rivet Size / Length (Cont'd)

PIN	Length or O.D. (in.)
546	0.546
562	0.562
578	0.578
593	0.593
609	0.609
625	0.625
640	0.640
656	0.656
671	0.671
687	0.687
703	0.703
718	0.718
734	0.734
750	0.750
765	0.765
781	0.781
796	0.796
812	0.812
828	0.828
843	0.843
859	0.859
875	0.875
890	0.890
906	0.906
921	0.921
937	0.937
953	0.953
968	0.968
984	0.984
A00	1.000

Table 3-18 Inch Pin Size 1

PIN	Size	Diameter (in.)
067	0	.067
086	2	.086
104	4	.104
120	6	.120
136	7	.136
144	8	.144
161	10	.161
196	12	.196
221	14	.221
250	16	.250

Table 3-19 Inch Pin Size 2

PIN	Size	Diameter (in.)
062	7/0	.062
078	6/0	.078
094	5/0	.094
109	4/0	.109
125	3/0	.125
141	2/0	.141
156	0	.156
172	1	.172
193	2	.193
219	3	.219
250	4	.250
289	5	.289
341	6	.341
409	7	.409
492	8	.492
591	9	.591
709	10	.706
860	11	.860
A03	12	1.032
A24	13	1.241
A52	14	1.523

Table 3-20 Retaining Ring Size Number

PIN	Size Designation
001	1
002	2
003	3
004	4
005	5
006	6
0S6	S6
0Y6	Y6
007	7
008	8
009	9
0S9	S9
010	10
011	11
S11	S11
012	12
S12	S12
013	13
014	14
S14	S14
Y14	Y14
015	15
S15	S15
016	16
017	17

**Table 3-20 Retaining Ring
Size Number (Cont'd)**

PIN	Size Designation
S17	S17
018	18
S18	S18
Y18	Y18
019	19
020	20
021	21
S21	S21
022	22
023	23
024	24
025	25
026	26
027	27
028	28
030	30
031	31
Y31	Y31
032	32
034	34
035	35
036	36
037	37
S37	S37
038	38
039	39
040	40
042	42
043	43
S43	S43
045	45
046	46
047	47
048	48
050	50
051	51
052	52
054	54
055	55
056	56
057	57
058	58
059	59
060	60
062	62
063	63
065	65
066	66
068	68
070	70
072	72

**Table 3-20 Retaining Ring
Size Number (Cont'd)**

PIN	Size Designation
S74	S74
075	75
077	77
078	78
080	80
081	81
082	82
084	84
085	85
086	86
087	87
088	88
090	90
092	92
093	93
095	95
098	98
S98	S98
100	100
102	102
105	105
106	106
108	108
110	110
112	112
115	115
118	118
SA1	S118
120	120
125	125
130	130
131	131
135	135
137	137
SA3	S137
140	140
143	143
145	145
150	150
155	155
156	156
160	160
162	162
165	165
168	168
170	170
175	175
177	177
180	180
181	181
185	185

**Table 3-20 Retaining Ring
Size Number (Cont'd)**

PIN	Size Designation
187	187
190	190
193	193
196	196
200	200
206	206
210	210
212	212
215	215
218	218
220	220
225	225
230	230
231	231
237	237
240	240
243	243
244	244
250	250
255	255
256	256
262	262
268	268
275	275
281	281
287	287
293	293
295	295
300	300
306	306
312	312
315	315
325	325
334	334
343	343
347	347
350	350
354	354
362	362
368	368
375	375
387	387
393	393
400	400
412	412
425	425
433	433
437	437
450	450
462	462
475	475

**Table 3-20 Retaining Ring
Size Number (Cont'd)**

PIN	Size Designation
500	500
525	525
537	537
550	550
575	575
600	600
625	625
650	650
662	662
675	675
700	700
725	725
750	750
775	775
800	800
825	825
850	850
875	875
900	900
925	925
950	950
975	975
M00	1000

**Table 3-21 Inch Retaining
Ring Size**

PIN	Diameter (in.)
469	0.469
500	0.500
512	0.512
531	0.531
551	0.551
562	0.562
594	0.594
625	0.625
656	0.656
669	0.669
687	0.687
688	0.688
718	0.718
750	0.750
777	0.777
781	0.781
812	0.812
843	0.843
866	0.866
875	0.875
901	0.901
906	0.906

**Table 3-21 Inch Retaining
Ring Size (Cont'd)**

PIN	Diameter (in.)
937	0.937
938	0.938
968	0.968
984	0.984
987	0.987
A00	1.000
A02	1.023
A03	1.031
A06	1.062
A09	1.093
A12	1.125
A15	1.156
A18	1.188
A21	1.218
A25	1.250
A28	1.281
A31	1.312
A34	1.343
A37	1.375
A40	1.406
A43	1.437
A43	1.438
A43	1.439
A45	1.456
A46	1.468
A50	1.500
A56	1.562
A57	1.574
A57	1.575
A62	1.625
A65	1.653
A67	1.687
A68	1.688
A75	1.750
A77	1.771
A81	1.812
A81	1.813
A85	1.850
A87	1.875
A93	1.938
A96	1.969
B00	2.000
B04	2.047
B06	2.062
B12	2.125
B15	2.156
B16	2.165
B18	2.188
B25	2.250
B31	2.312
B36	2.362

**Table 3-21 Inch Retaining
Ring Size (Cont'd)**

PIN	Diameter (in.)
B37	2.375
B43	2.437
B44	2.440
B50	2.500
B53	2.531
B55	2.559
B56	2.562
B62	2.625
B67	2.677
B68	2.687
B68	2.688
B75	2.750
B81	2.813
B83	2.834
B87	2.875
B93	2.937
B95	2.952
C00	3.000
C06	3.062
C12	3.125
C14	3.149
C15	3.156
C15	3.157
C18	3.187
C25	3.250
C31	3.312
C34	3.343
C34	3.344
C34	3.346
C37	3.375
C43	3.437
C46	3.469
C50	3.500
C54	3.543
C56	3.562
C62	3.625
C68	3.687
C74	3.740
C75	3.750
C81	3.812
C87	3.875
C93	3.938
D00	4.000
D06	4.063
D12	4.125
D13	4.134
D18	4.188
D25	4.250
D31	4.312
D33	4.330
D33	4.331

Table 3-21 Inch Retaining Ring Size (Cont'd)

PIN	Diameter (in.)
D37	4.375
D43	4.437
D50	4.500
D52	4.527
D56	4.562
D62	4.625
D68	4.687
D72	4.724
D75	4.750
D81	4.812
D87	4.875
D92	4.921
D93	4.937
E00	5.000
E11	5.118
E12	5.125
E25	5.250
E37	5.375
E50	5.500
E51	5.511
E62	5.625
E70	5.708
E75	5.750
E87	5.875
E90	5.905
F00	6.000
F12	6.125
F25	6.250
F29	6.299
F37	6.375
F50	6.500
F62	6.625
F69	6.692
F75	6.750
F87	6.875
GF0	7.000
G08	7.086
G12	7.125
G25	7.250
G37	7.375
G48	7.480
G50	7.500
G62	7.625
G75	7.750
G87	7.875
H00	8.000
H25	8.250
H26	8.267
H46	8.464
H50	8.500
H75	8.750

Table 3-21 Inch Retaining Ring Size (Cont'd)

PIN	Diameter (in.)
H85	8.858
J00	9.000
J05	9.055
J25	9.250
J44	9.448
J50	9.500
J75	9.750
K00	10.000
K02	10.250
K05	10.500
K07	10.750
K10	11.000
K12	11.250
K15	11.500
K17	11.750
K20	12.000
K22	12.250
K25	12.500
K27	12.750
K30	13.000
K32	13.250
K35	13.500
K37	13.750
K40	14.000
K42	14.250
K45	14.500
K47	14.750
K50	15.000

Table 3-22 Inch Washer Size 1 (a)

PIN	Size	Diameter (in.)
078		.078
094		.094
125		.125
138	No. 6	0.138
164	No. 8	0.164
188	$\frac{3}{16}$	0.188
190	No. 10	0.190
216	No. 12	0.216
25N	$\frac{1}{4}$	0.250 Narrow
25W	$\frac{1}{4}$	0.250 Wide
31N	$\frac{5}{16}$	0.312 Narrow
31W	$\frac{5}{16}$	0.312 Wide
37N	$\frac{3}{8}$	0.375 Narrow
37W	$\frac{3}{8}$	0.375 Wide
43N	$\frac{7}{16}$	0.438 Narrow
43W	$\frac{7}{16}$	0.438 Wide
50N	$\frac{1}{2}$	0.500 Narrow
50W	$\frac{1}{2}$	0.500 Wide

Table 3-22 Inch Washer Size 1 (Cont'd)

PIN	Size	Diameter (in.)
56N	$\frac{9}{16}$	0.562 Narrow
56W	$\frac{9}{16}$	0.562 Wide
62N	$\frac{5}{8}$	0.625 Narrow
62W	$\frac{5}{8}$	0.625 Wide
75N	$\frac{3}{4}$	0.750 Narrow
75W	$\frac{3}{4}$	0.750 Wide
87N	$\frac{7}{8}$	0.875 Narrow
87W	$\frac{7}{8}$	0.875 Wide
A0N	1	1.000 Narrow
A0W	1	1.000 Wide
A1N	$1\frac{1}{8}$	1.125 Narrow
A1W	$1\frac{1}{8}$	1.125 Wide
A2N	$1\frac{1}{4}$	1.250 Narrow
A2W	$1\frac{1}{4}$	1.250 Wide
A3N	$1\frac{3}{8}$	1.375 Narrow
A3W	$1\frac{3}{8}$	1.375 Wide
A5N	$1\frac{1}{2}$	1.500 Narrow
A5W	$1\frac{1}{2}$	1.500 Wide
A62	—	1.625
A75	$1\frac{3}{4}$	1.750
A87	$1\frac{3}{4}$	1.875
B00	2	2.000
B25	$2\frac{1}{4}$	2.250
B50	$2\frac{1}{2}$	2.500
B75	$2\frac{3}{4}$	2.750
C00	3	3.000

Table 3-23 Inch Washer Size 2

PIN	Diameter/ Outside Diameter (in.)
094	0.094
125	0.125
156	0.156
172	0.172
188	0.188
203	0.203
219	0.219
234	0.234
250	0.250
266	0.266
312	0.312
37A	0.375/0.734
37B	0.375/1.125
43A	0.438/0.875
43B	0.438/1.375
50A	0.500/1.125
50B	0.500/1.625
56A	0.562/1.25
56B	0.562/1.875
62A	0.625/1.375

Table 3-23 Inch Washer Size 2 (Cont'd)

PIN	Diameter/ Outside Diameter (in.)
62B	0.625/2.125
68A	0.688/1.469
68B	0.688/2.375
81A	0.812/1.750
81B	0.812/2.875
93A	0.938/2.000
93B	0.938/3.375
A0A	1.062/2.250
A0B	1.062/3.875
A25	1.250
A37	1.375
A50	1.500
A62	1.625
A68	1.688
A81	1.812
A93	1.938
B06	2.062

Table 3-24 Inch Washer Size 3 (a)

PIN	Size	Diameter and Type (in.)
06N	No. 0	0.060 Narrow
06R	No. 0	0.060 Regular
06W	No. 0	0.060 Wide
07N	No. 1	0.073 Narrow
07R	No. 1	0.073 Regular
07W	No. 1	0.073 Wide
08N	No. 2	0.086 Narrow
08R	No. 2	0.086 Regular
08W	No. 2	0.086 Wide
09N	No. 3	0.099 Narrow
09R	No. 3	0.099 Regular
09W	No. 3	0.099 Wide
11N	No. 4	0.112 Narrow
11R	No. 4	0.112 Regular
11W	No. 4	0.112 Wide
12N	No. 5	0.125 Narrow
12R	No. 5	0.125 Regular
12W	No. 5	0.125 Wide
13N	No. 6	0.138 Narrow
13R	No. 6	0.138 Regular
13W	No. 6	0.138 Wide
16N	No. 8	0.164 Narrow
16R	No. 8	0.164 Regular
16W	No. 8	0.164 Wide
19N	No. 10	0.190 Narrow
19R	No. 10	0.190 Regular
19W	No. 10	0.190 Wide
21N	No. 12	0.216 Narrow
21R	No. 12	0.216 Regular

Table 3-24 Inch Washer Size 3 (Cont'd)

PIN	Size	Diameter and Type (in.)
21W	No. 12	0.216 Wide
25N	$\frac{1}{4}$	0.250 Narrow
25R	$\frac{1}{4}$	0.250 Regular
25W	$\frac{1}{4}$	0.250 Wide
31N	$\frac{5}{16}$	0.312 Narrow Narrow
31R	$\frac{5}{16}$	0.312 Regular
31W	$\frac{5}{16}$	0.312 Wide
37N	$\frac{3}{8}$	0.375 Narrow
37R	$\frac{3}{8}$	0.375 Regular
37W	$\frac{3}{8}$	0.375 Wide
43N	$\frac{7}{16}$	0.438 Narrow
43R	$\frac{7}{16}$	0.438 Regular
43W	$\frac{7}{16}$	0.438 Wide
50N	$\frac{1}{2}$	0.500 Narrow
50R	$\frac{1}{2}$	0.500 Regular
50W	$\frac{1}{2}$	0.500 Wide
56N	$\frac{9}{16}$	0.562 Narrow
56R	$\frac{9}{16}$	0.562 Regular
56W	$\frac{9}{16}$	0.562 Wide
62N	$\frac{5}{8}$	0.625 Narrow
62R	$\frac{5}{8}$	0.625 Regular
62W	$\frac{5}{8}$	0.625 Wide
75N	$\frac{3}{4}$	0.750 Narrow
75R	$\frac{3}{4}$	0.750 Regular
75W	$\frac{3}{4}$	0.750 Wide
87N	$\frac{7}{8}$	0.875 Narrow
87R	$\frac{7}{8}$	0.875 Regular
87W	$\frac{7}{8}$	0.875 Wide
A0N	1	1.000 Narrow
A0R	1	1.000 Regular
A0W	1	1.000 Wide
A1N	$1\frac{1}{8}$	1.125 Narrow
A1R	$1\frac{1}{8}$	1.125 Regular
A1W	$1\frac{1}{8}$	1.125 Wide
A2N	$1\frac{1}{4}$	1.250 Narrow
A2R	$1\frac{1}{4}$	1.250 Regular
A2W	$1\frac{1}{4}$	1.250 Wide
A3N	$1\frac{3}{8}$	1.375 Narrow
A3R	$1\frac{3}{8}$	1.375 Regular
A3W	$1\frac{3}{8}$	1.375 Wide
A5N	$1\frac{1}{2}$	1.500 Narrow
A5R	$1\frac{1}{2}$	1.500 Regular
A5W	$1\frac{1}{2}$	1.500 Wide
A6N	$1\frac{5}{8}$	1.625 Narrow
A6R	$1\frac{5}{8}$	1.625 Regular
A6W	$1\frac{5}{8}$	1.625 Wide
A7N	$1\frac{3}{4}$	1.750 Narrow
A7R	$1\frac{3}{4}$	1.750 Regular
A7W	$1\frac{3}{4}$	1.750 Wide
A8N	$1\frac{7}{8}$	1.875 Narrow
A8R	$1\frac{7}{8}$	1.875 Regular

Table 3-24 Inch Washer Size 3 (Cont'd)

PIN	Size	Diameter and Type (in.)
A8W	$1\frac{7}{8}$	1.875 Wide
B0N	2	2.000 Narrow
B0R	2	2.000 Regular
B0W	2	2.000 Wide
B2N	$2\frac{1}{4}$	2.250 Narrow
B2R	$2\frac{1}{4}$	2.250 Regular
B2W	$2\frac{1}{4}$	2.250 Wide
B5N	$2\frac{1}{2}$	2.500 Narrow
B5R	$2\frac{1}{2}$	2.500 Regular
B5W	$2\frac{1}{2}$	2.500 Wide
B7N	$2\frac{3}{4}$	2.750 Narrow
B7R	$2\frac{3}{4}$	2.750 Regular
B7W	$2\frac{3}{4}$	2.750 Wide
C0N	3	3.000 Narrow
C0R	3	3.000 Regular
C0W	3	3.000 Wide

Table 3-25 Inch Washer Size 4 (a)

PIN	Size	Outside Diameter (in.)
11A	.112	.475
11B	.112	.510
11C	.112	.610
13A	.138	.510
13B	.138	.610
13C	.138	.690
16A	.164	.610
16B	.164	.690
16C	.164	.760
19A	.190	.610
19B	.190	.690
19C	.190	.760
19D	.190	.900
21A	.216	.690
21B	.216	.760
21C	.216	.900
21D	.216	.985
25A	.250	.760
25B	.250	.900
25C	.250	.985
25D	.250	1.070
31A	0.312	.900
31B	0.312	.985
31C	0.312	1.070
31D	0.312	1.155
37A	0.375	.985
37B	0.375	1.070
37C	0.375	1.155
37D	0.375	1.260

Table 3-25 Inch Washer Size 4 (Cont'd)

PIN	Size	Outside Diameter (in.)
43A	0.438	1.070
43B	0.438	1.155
43C	0.438	1.260
43D	0.438	1.315
50A	0.500	1.260
50B	0.500	1.315
50C	0.500	1.410
50D	0.500	1.620
56A	0.562	1.315
56B	0.562	1.430
56C	0.562	1.620
56D	0.562	1.830
62A	0.625	1.410
62B	0.625	1.620
62C	0.625	1.830
62D	0.625	1.975

Table 3-26 Metric Washer Size 1

PIN	Diameter and Type (mm)
01N	1.6 Narrow
01R	1.6 Regular
01W	1.6 Wide
02N	2 Narrow
02R	2 Regular
02W	2 Wide
2BN	2.5 Narrow
2BR	2.5 Regular
2BW	2.5 Wide
03N	3 Narrow
03R	3 Regular
03W	3 Wide
3CN	3.5 Narrow
3CR	3.5 Regular
3CW	3.5 Wide
04N	4 Narrow
04R	4 Regular
04W	4 Wide
05N	5 Narrow
05R	5 Regular
05W	5 Wide
06N	6 Narrow
06R	6 Regular
06W	6 Wide
08N	8 Narrow
08R	8 Regular
08W	8 Wide
10N	10 Narrow
10R	10 Regular

Table 3-26 Metric Washer Size 1 (Cont'd)

PIN	Diameter and Type (mm)
10W	10 Wide
12N	12 Narrow
12R	12 Regular
12W	12 Wide
14N	14 Narrow
14R	14 Regular
14W	14 Wide
16N	16 Narrow
16R	16 Regular
16W	16 Wide
20N	20 Narrow
20R	20 Regular
20W	20 Wide
24N	24 Narrow
24R	24 Regular
24W	24 Wide
30N	30 Narrow
30R	30 Regular
30W	30 Wide
36N	36 Narrow
36R	36 Regular
36W	36 Wide

Table 3-27 Metric Washer (a) Size 2

PIN	Description	
	Inside Diameter (mm)	Outside Diameter (mm)
29A	2.9	12.10
29B	2.9	13.00
29C	2.9	15.50
30A	3	12.10
30B	3	13.00
30C	3	15.50
35A	3.5	12.90
35B	3.5	15.50
35C	3.5	17.55
40A	4	15.25
40B	4	17.70
40C	4	19.30
42A	4.2	15.25
42B	4.2	17.70
42C	4.2	19.30
48A	4.8	15.25
48B	4.8	17.75
48C	4.8	19.30
48D	4.8	22.90
50A	5	15.25

Table 3-27 Metric Washer Size 2 (Cont'd)

PIN	Description	
	Inside Diameter (mm)	Outside Diameter (mm)
50B	5	17.75
50C	5	19.30
50D	5	22.90
55A	5.5	17.75
55B	5.5	19.30
55C	5.5	22.90
55D	5.5	25.00
60A	6	19.30
60B	6	22.90
60C	6	25.00
60D	6	27.20
63A	6.3	19.30
63B	6.3	22.90
63C	6.3	25.00
63D	6.3	27.20
80A	8	22.90
80B	8	25.00
80C	8	27.20
80D	8	29.35
95A	9.5	25.00
95B	9.5	27.20
95C	9.5	29.35
95D	9.5	32.00
A0A	10	25.00
A0B	10	27.20
A0C	10	29.35
A0D	10	32.00
A2A	12	32.00
A2B	12	33.50
A2C	12	36.00
A2D	12	41.35
A4A	14	33.50
A4B	14	36.00
A4C	14	41.35
A4D	14	46.50
A6A	16	36.00
A6B	16	41.35
A6C	16	46.50
A6D	16	50.20

Table 3-28 Metric Key Size 1

PIN	Key Size
022	$\frac{2}{2}$
033	$\frac{3}{3}$
044	$\frac{4}{4}$

**Table 3-28 Metric Key Size 1
(Cont'd)**

PIN	Key Size
055	$\frac{5}{5}$
066	$\frac{6}{6}$
053	$\frac{5}{3}$
064	$\frac{6}{4}$
085	$\frac{8}{5}$
087	$\frac{8}{7}$
10A	$\frac{10}{6}$
10B	$\frac{10}{8}$
12A	$\frac{12}{6}$
12B	$\frac{12}{8}$
14A	$\frac{14}{6}$
14B	$\frac{14}{9}$
16A	$\frac{16}{7}$
16B	$\frac{16}{10}$
18A	$\frac{18}{7}$
18B	$\frac{18}{11}$
20A	$\frac{20}{8}$
20B	$\frac{20}{12}$
22A	$\frac{22}{6}$
22B	$\frac{22}{14}$
25A	$\frac{25}{9}$
25B	$\frac{25}{14}$
28A	$\frac{28}{10}$
28B	$\frac{28}{16}$
32A	$\frac{32}{11}$
32B	$\frac{32}{18}$
36A	$\frac{36}{12}$
36B	$\frac{36}{20}$
40A	$\frac{40}{20}$
45A	$\frac{45}{25}$
50A	$\frac{50}{28}$
56A	$\frac{56}{32}$
63A	$\frac{63}{32}$
70A	$\frac{70}{36}$
80A	$\frac{80}{40}$
90A	$\frac{90}{45}$
100	$\frac{100}{50}$

Table 3-29 Metric Key Size 2

PIN	Key Size
101	$1 \times 1.4 \times 4$
152	$1.5 \times 2.6 \times 7$
202	$2 \times 2.6 \times 7$
203	$2 \times 3.7 \times 10$
253	$2.5 \times 3.7 \times 10$
305	$3 \times 5 \times 13$
306	$3 \times 6.5 \times 16$
406	$4 \times 6.5 \times 16$

**Table 3-29 Metric Key Size 2
(Cont'd)**

PIN	Key Size
407	$4 \times 7.5 \times 19$
506	$5 \times 6.5 \times 16$
507	$5 \times 7.5 \times 19$
509	$5 \times 9 \times 22$
609	$6 \times 9 \times 22$
60K	$6 \times 10 \times 25$
80L	$8 \times 11 \times 28$
K0P	$10 \times 13 \times 32$

Table 4-1 Inch Length/Other (a)

PIN	Size	Size/Length (in.)
000	n/a	No Entry
031	$\frac{1}{32}$	.031
039		.039
047	$\frac{3}{64}$	.047
052		.052
062	$\frac{1}{16}$	.062
075		.075
078	$\frac{5}{64}$	.078
093	$\frac{3}{32}$	.093
094		.094
010		.100
109	$\frac{7}{64}$	.109
116		.116
125	$\frac{1}{8}$	.125
140		.140
141	$\frac{9}{64}$	.141
154		.154
156	$\frac{5}{32}$	.156
167		.167
172		.172
182		.182
188	$\frac{3}{16}$	.188
203		.203
212		.212
219	$\frac{7}{32}$	.219
234		.234
242		.242
250	$\frac{1}{4}$	.250
266		.266
281	$\frac{9}{32}$	.281
297		.297
312	$\frac{5}{16}$	.312
315		.315
328		.328
344	$\frac{11}{32}$	.344
359	$\frac{23}{64}$	.359
375	$\frac{3}{8}$	.375
378		.378

**Table 4-1 Inch Length/Other
(Cont'd)**

PIN	Size	Size/Length (in.)
390		.390
406	$\frac{13}{32}$	.406
422		.422
438	$\frac{7}{16}$	.438
453		.453
469		.469
484		.484
500	$\frac{1}{2}$	.500
562	$\frac{9}{16}$	.562
625	$\frac{5}{8}$	.625
688	$\frac{11}{16}$	.688
750	$\frac{3}{4}$	.750
812	$\frac{13}{16}$	.812
875	$\frac{7}{8}$	.875
938	$\frac{15}{16}$	.938
A00	1	1.000
A12	$1\frac{1}{8}$	1.125
A25	$1\frac{1}{4}$	1.250
A37	$1\frac{3}{8}$	1.375
A50	$1\frac{1}{2}$	1.500
A62	$1\frac{5}{8}$	1.625
A75	$1\frac{3}{4}$	1.750
A87	$1\frac{7}{8}$	1.875
B00	2	2.000
B12	$2\frac{1}{8}$	2.125
B25	$2\frac{1}{4}$	2.250
B37	$2\frac{3}{8}$	2.375
B50	$2\frac{1}{2}$	2.500
B62	$2\frac{5}{8}$	2.625
B75	$2\frac{3}{4}$	2.750
B87	$2\frac{7}{8}$	2.875
C00	3	3.000
C12	$3\frac{1}{8}$	3.125
C25	$3\frac{1}{4}$	3.250
C37	$3\frac{3}{8}$	3.375
C50	$3\frac{1}{2}$	3.500
C62	$3\frac{5}{8}$	3.625
C75	$3\frac{3}{4}$	3.750
C87	$3\frac{7}{8}$	3.875
D00	4	4.000
D12	$4\frac{1}{8}$	4.125
D25	$4\frac{1}{4}$	4.250
D37	$4\frac{3}{8}$	4.375
D50	$4\frac{1}{2}$	4.500
D62	$4\frac{5}{8}$	4.625
D75	$4\frac{3}{4}$	4.750
D87	$4\frac{7}{8}$	4.875
E00	5	5.000
E12	$5\frac{1}{8}$	5.125
E25	$5\frac{1}{4}$	5.250
E37	$5\frac{3}{8}$	5.375

Table 4-1 Inch Length/Other (Cont'd)

PIN	Size	Size/Length (in.)
E50	5 $\frac{1}{2}$	5.500
E62	5 $\frac{5}{8}$	5.625
E75	5 $\frac{3}{4}$	5.750
E87	5 $\frac{7}{8}$	5.875
F00	6	6.000
F12	6 $\frac{1}{8}$	6.125
F25	6 $\frac{1}{4}$	6.250
F37	6 $\frac{3}{8}$	6.375
F50	6 $\frac{1}{2}$	6.500
F62	6 $\frac{5}{8}$	6.625
F75	6 $\frac{3}{4}$	6.750
F87	6 $\frac{7}{8}$	6.875
G00	7	7.000
G12	7 $\frac{1}{8}$	7.125
G25	7 $\frac{1}{4}$	7.250
G37	7 $\frac{3}{8}$	7.375
G50	7 $\frac{1}{2}$	7.500
G62	7 $\frac{5}{8}$	7.625
G75	7 $\frac{3}{4}$	7.750
G87	7 $\frac{7}{8}$	7.875
H00	8	8.000
H25	8 $\frac{1}{4}$	8.250
H50	8 $\frac{1}{2}$	8.500
H75	8 $\frac{3}{4}$	8.750
J00	9	9.000
J25	9 $\frac{1}{4}$	9.250
J50	9 $\frac{1}{2}$	9.500
J75	9 $\frac{3}{4}$	9.750
K00	10	10.000
K02	10 $\frac{1}{4}$	10.250
K05	10 $\frac{1}{2}$	10.500
K07	10 $\frac{3}{4}$	10.750
K10	11	11.000
K12	11 $\frac{1}{4}$	11.250
K15	11 $\frac{1}{2}$	11.500
K17	11 $\frac{3}{4}$	11.750
K20	12	12.000
K22		12.250
K25	12 $\frac{1}{2}$	12.500
K27		12.750
K30	13	13.000
K35	13 $\frac{1}{2}$	13.500
K40	14	14.000
K45	14 $\frac{1}{2}$	14.500
K50	15	15.000
K55	15 $\frac{1}{2}$	15.500
K60	16	16.000
K65	16 $\frac{1}{2}$	16.500
K70	17	17.000
K75	17 $\frac{1}{2}$	17.500
K80	18	18.000

Table 4-1 Inch Length/Other (Cont'd)

PIN	Size	Size/Length (in.)
K85	18 $\frac{1}{2}$	18.500
K90	19	19.000
K95	19 $\frac{1}{2}$	19.500
L00	20	20.000
01R	$\frac{1}{16}$	.062 RBD
02R	$\frac{1}{8}$	.125 RBD
03R	$\frac{3}{16}$	.188 RBD
04R	$\frac{1}{4}$	.250 RBD
05R	$\frac{5}{16}$	.312 RBD
06R	$\frac{3}{8}$	.375 RBD
07R	$\frac{7}{16}$	.438 RBD
08R	$\frac{1}{2}$	.500 RBD
09R	$\frac{9}{16}$	.562 RBD
10R	$\frac{5}{8}$	.625 RBD
11R	$\frac{11}{16}$	.688 RBD
12R	$\frac{3}{4}$	.750 RBD
13R	$\frac{13}{16}$	.812 RBD
14R	$\frac{7}{8}$	.875 RBD
15R	$\frac{15}{16}$	.938 RBD
16R	1	1.000 RBD
18R	1 $\frac{1}{8}$	1.125 RBD
20R	1 $\frac{1}{4}$	1.250 RBD
22R	1 $\frac{3}{8}$	1.375 RBD
24R	1 $\frac{1}{2}$	1.500 RBD
26R	1 $\frac{5}{8}$	1.625 RBD
28R	1 $\frac{3}{4}$	1.750 RBD
30R	1 $\frac{7}{8}$	1.875 RBD
32R	2	2.000 RBD
34R	2 $\frac{1}{8}$	2.125 RBD
36R	2 $\frac{1}{4}$	2.250 RBD
38R	2 $\frac{3}{8}$	2.375 RBD
40R	2 $\frac{1}{2}$	2.500 RBD
42R	2 $\frac{5}{8}$	2.625 RBD
44R	2 $\frac{3}{4}$	2.750 RBD
46R	2 $\frac{7}{8}$	2.875 RBD
48R	3	3.000 RBD
52R	3 $\frac{1}{4}$	3.250 RBD
56R	3 $\frac{1}{2}$	3.500 RBD
60R	3 $\frac{3}{4}$	3.750 RBD
64R	4	4.000 RBD
68R	4 $\frac{1}{4}$	4.250 RBD
72R	4 $\frac{1}{2}$	4.500 RBD
76R	4 $\frac{3}{4}$	4.750 RBD
80R	5	5.000 RBD
84R	5 $\frac{1}{4}$	5.250 RBD
88R	5 $\frac{1}{2}$	5.500 RBD
92R	5 $\frac{3}{4}$	5.750 RBD
96R	6	6.000 RBD
F2R	6 $\frac{1}{4}$	6.250 RBD
F5R	6 $\frac{1}{2}$	6.500 RBD
F7R	6 $\frac{3}{4}$	6.750 RBD

Table 4-1 Inch Length/Other (Cont'd)

PIN	Size	Size/Length (in.)
G0R	7	7.000 RBD
G2R	7 $\frac{1}{4}$	7.250 RBD
G5R	7 $\frac{1}{2}$	7.500 RBD
G7R	7 $\frac{3}{4}$	7.750 RBD
H0R	8	8.000 RBD
H2R	8 $\frac{1}{4}$	8.250 RBD
H5R	8 $\frac{1}{2}$	8.500 RBD
H7R	8 $\frac{3}{4}$	8.750 RBD
J0R	9	9.000 RBD
J2R	9 $\frac{1}{4}$	9.250 RBD
J5R	9 $\frac{1}{2}$	9.500 RBD
J7R	9 $\frac{3}{4}$	9.750 RBD
K0R	10	10.00 RBD
K2R	10 $\frac{1}{4}$	10.25 RBD
K5R	10 $\frac{1}{2}$	10.50 RBD
K7R	10 $\frac{3}{4}$	10.75 RBD
L0R	11	11.00 RBD
L2R	11 $\frac{1}{4}$	11.25 RBD
L5R	11 $\frac{1}{2}$	11.50 RBD
L7R	11 $\frac{3}{4}$	11.75 RBD
M0R	12	12.00 RBD
M5R	12 $\frac{1}{2}$	12.50 RBD
N0R	13	13.00 RBD
N5R	13 $\frac{1}{2}$	13.50 RBD
P0R	14	14.00 RBD
P5R	14 $\frac{1}{2}$	14.50 RBD
Q0R	15	15.00 RBD
Q5R	15 $\frac{1}{2}$	15.50 RBD
S0R	16	16.00 RBD
S5R	16 $\frac{1}{2}$	16.50 RBD
T0R	17	17.00 RBD
T5R	17 $\frac{1}{2}$	17.50 RBD
U0R	18	18.00 RBD
U5R	18 $\frac{1}{2}$	18.50 RBD
V0R	19	19.00 RBD
V5R	19 $\frac{1}{2}$	19.50 RBD
W0R	20	20.00 RBD

GENERAL NOTE:

(a) RBD = Reduced Body Diameter.

Table 4-2 Metric Length/Other (a)

PIN	Size/Length (mm)
000	No Entry
06M	0.6
08M	0.8
10M	1.0
12M	1.2
14M	1.4
15M	1.5

**Table 4-2 Metric Length/Other
(Cont'd)**

PIN	Size/Length (mm)
16M	1.6
20M	2.0
22M	2.2
25M	2.5
29M	2.9
30M	3.0
32M	3.2
35M	3.5
40M	4.0
42M	4.2
48M	4.8
50M	5.0
55M	5.5
60M	6.0
63M	6.3
70M	7.0
80M	8.0
90M	9.0
95M	9.5
010	10
011	11
012	12
013	13
014	14
015	15
016	16
017	17
018	18
019	19
020	20
021	21
022	22
023	23
024	24
025	25
026	26
027	27
028	28
030	30
032	32
033	33
034	34
035	35
036	36
037	37
038	38
040	40
042	42
045	45
046	46
047	47

**Table 4-2 Metric Length/Other
(Cont'd)**

PIN	Size/Length (mm)
048	48
050	50
052	52
055	55
056	56
057	57
058	58
060	60
062	62
063	63
065	65
068	68
070	70
072	72
075	75
078	78
080	80
082	82
085	85
088	88
090	90
092	92
095	95
098	98
100	100
102	102
105	105
108	108
110	110
115	115
120	120
125	125
130	130
135	135
140	140
145	145
150	150
155	155
160	160
165	165
170	170
175	175
180	180
185	185
190	190
200	200
210	210
220	220
230	230
240	240
250	250

**Table 4-2 Metric Length/Other
(Cont'd)**

PIN	Size/Length (mm)
260	260
270	270
280	280
290	290
300	300
320	320
340	340
360	360
380	380
400	400
420	420
440	440
460	460
480	480
500	500
520	520
540	540
560	560
580	580
600	600
620	620
640	640
660	660
680	680
700	700
720	720
740	740
760	760
780	780
800	800
820	820
840	840
860	860
880	880
900	900
920	920
940	940
960	960
980	980
K00	1000
0CR	2.5 RBD
03R	3.0 RBD
0DR	3.5 RBD
04R	4.0 RBD
05R	5.0 RBD
06R	6.0 RBD
07R	7.0 RBD
08R	8.0 RBD
09R	9.0 RBD
10R	10 RBD
12R	12 RBD

Table 4-2 Metric Length/Other (Cont'd)

PIN	Size/Length (mm)
13R	13 RBD
14R	14 RBD
16R	16 RBD
17R	17 RBD
18R	18 RBD
19R	19 RBD
20R	20 RBD
22R	22 RBD
25R	25 RBD
30R	30 RBD
35R	35 RBD
40R	40 RBD
45R	45 RBD
50R	50 RBD
55R	55 RBD
60R	60 RBD
65R	65 RBD
70R	70 RBD
75R	75 RBD
80R	80 RBD
85R	85 RBD
90R	90 RBD
A0R	100 RBD
A1R	110 RBD
A2R	120 RBD
A3R	130 RBD
A4R	140 RBD
A5R	150 RBD
A6R	160 RBD
A7R	170 RBD
A8R	180 RBD
A9R	190 RBD
B0R	200 RBD
B2R	220 RBD
B4R	240 RBD
B6R	260 RBD
B8R	280 RBD
C0R	300 RBD
C2R	320 RBD
C4R	340 RBD
C6R	360 RBD
C8R	380 RBD
D0R	400 RBD
D2R	420 RBD
D4R	440 RBD
D6R	460 RBD
D8R	480 RBD
E0R	500 RBD
E2R	520 RBD

Table 4-2 Metric Length/Other (Cont'd)

PIN	Size/Length (mm)
E4R	540 RBD
E6R	560 RBD
E8R	580 RBD
F0R	600 RBD
F2R	620 RBD
F4R	640 RBD
F6R	660 RBD
F8R	680 RBD
G0R	700 RBD
G2R	720 RBD
G4R	740 RBD
G6R	760 RBD
G8R	780 RBD
H0R	800 RBD
H2R	820 RBD
H4R	840 RBD
H6R	860 RBD
H8R	880 RBD
J0R	900 RBD
J2R	920 RBD
J4R	940 RBD
J6R	960 RBD
J8R	980 RBD
K0R	1000 RBD

GENERAL NOTE:

(a) RBD = Reduced Body Diameter.

Table 4-3 Inch Miniature Screw Length

PIN	Length (in.)
020	.020
025	.025
032	.032
040	.040
050	.050
060	.060
080	.080
100	.100
120	.120
160	.160
200	.200
250	.250
320	.320
400	.400
500	.500
600	.600

Table 4-4 Insert Length

PIN	Length
10X	1.0 × Nom. Dia.
15X	1.5 × Nom. Dia.
20X	2.0 × Nom. Dia.
25X	2.5 × Nom. Dia.
30X	3.0 × Nom. Dia.

Table 4-5 Inch Pin Length (a)

PIN	Length (in.)
250	0.250
312	0.312
375	0.375
580	0.58
770	0.77
940	0.94
A00	1.000
A06	1.06
A12	1.125
A19	1.19
A36	1.36
A61	1.61
A91	1.91
B16	2.16
B24	2.41
J50	9.50
J75	9.75
K00	10.00

Table 4-6 Inch Eyebolt Full Thread Length (a)

PIN	Length (in.)
750	0.75
810	0.81
840	0.84
880	0.88
940	0.94
A00	1.00
A12	1.12
A13	1.13
A25	1.25
A31	1.31
A38	1.38
A50	1.50
A62	1.62

**Table 4-6 Inch Eyebolt
Full Thread Length (Cont'd)**

PIN	Length (in.)
A69	1.69
A81	1.81
A88	1.88
B22	2.22
B25	2.25
B31	2.31
B38	2.38
B44	2.44
B50	2.50
B53	2.53
B62	2.62
B66	2.66
B75	2.75
B81	2.81
B97	2.97
C00	3.00
C06	3.06
C09	3.09
C19	3.19
C38	3.38
C41	3.41
C44	3.44
C47	3.47
C50	3.50
C75	3.75
C78	3.78
C81	3.81
C88	3.88
D12	4.12
D19	4.19
D25	4.25
D56	4.56
D69	4.69
D94	4.94
E06	5.06
E31	5.31
E50	5.50
E69	5.69
E75	5.75
E94	5.94
F19	6.19
F31	6.31
F44	6.44
F69	6.69
F88	6.88
G06	7.06
G31	7.31
G69	7.69
G75	7.75
H44	8.44
H56	8.56
H94	8.94
J22	9.22

**Table 4-6 Inch Eyebolt
Full Thread Length (Cont'd)**

PIN	Length (in.)
J50	9.50
J72	9.72
K01	10.12
K05	10.50
K12	11.20
K14	11.44
K15	11.53
K22	12.22
K31	13.19
K40	14.06

(a) **Table 5-1 Material and Treatment: ASTM Material Specifications****ASTM A 31—Boiler Rivet Steel**

PIN	Material Spec	Material	UNS #
EP6	ASTM A 31, Grade A	Carbon Steel	—
EP7	ASTM A 31, Grade B	Carbon Steel	—

ASTM A 183—Carbon Steel Track Bolts and Nuts

PIN	Material Spec	Material	UNS #
AA1	ASTM A 183, Grade 1	Alloy Steel	—
AA2	ASTM A 183, Grade 2	Alloy Steel	—

ASTM A 193/A 193M—Alloy-Steel and Stainless Steel Bolting Materials for High-Temperature Service

PIN	Material Spec	Material	UNS #
AA3	ASTM A 193/A 193M, Grade B5	Stainless Steel	S50100
AA4	ASTM A 193/A 193M, Grade B6	Stainless Steel	S41000
AA5	ASTM A 193/A 193M, Grade B6X	Stainless Steel	S41000
AA6	ASTM A 193/A 193M, Grade B7	Alloy Steel	G41400
AA7	ASTM A 193/A 193M, Grade B7M	Alloy Steel	G41400
AA8	ASTM A 193/A 193M, Grade B16	Alloy Steel	K14072
AA9	ASTM A 193/A 193M, Grade B8, Class 1	Stainless Steel	S30400
AB0	ASTM A 193/A 193M, Grade B8C, Class 1	Stainless Steel	S34700
AB1	ASTM A 193/A 193M, Grade B8M, Class 1	Stainless Steel	S31600
AB2	ASTM A 193/A 193M, Grade B8P, Class 1	Stainless Steel	S30500
AB3	ASTM A 193/A 193M, Grade B8T, Class 1	Stainless Steel	S32100
AB4	ASTM A 193/A 193M, Grade B8LN, Class 1	Stainless Steel	S30453
AB5	ASTM A 193/A 193M, Grade B8MLN, Class 1	Stainless Steel	S31653
AB6	ASTM A 193/A 193M, Grade B8A, Class 1A	Stainless Steel	S30400
AB7	ASTM A 193/A 193M, Grade B8CA, Class 1A	Stainless Steel	S34700
AB8	ASTM A 193/A 193M, Grade B8MA, Class 1A	Stainless Steel	S31600
AB9	ASTM A 193/A 193M, Grade B8PA, Class 1A	Stainless Steel	S30500
AC0	ASTM A 193/A 193M, Grade B8TA, Class 1A	Stainless Steel	S32100
AC1	ASTM A 193/A 193M, Grade B8LNA, Class 1A	Stainless Steel	S30453
AC2	ASTM A 193/A 193M, Grade B8MLNA, Class 1A	Stainless Steel	S31653
AC3	ASTM A 193/A 193M, Grade B8NA, Class 1A	Stainless Steel	S30451
AC4	ASTM A 193/A 193M, Grade B8MNA, Class 1A	Stainless Steel	S31651
AC5	ASTM A 193/A 193M, Grade B8MLCuNA, Class 1A	Stainless Steel	S31254
AC6	ASTM A 193/A 193M, Grade B8N, Class 1B	Stainless Steel	S30451
AC7	ASTM A 193/A 193M, Grade B8MN, Class 1B	Stainless Steel	S31651
AC8	ASTM A 193/A 193M, Grade B8MLCuN, Class 1B	Stainless Steel	S31254
AC9	ASTM A 193/A 193M, Grade B8R, Class 1C	Stainless Steel	S20910
AD0	ASTM A 193/A 193M, Grade B8RA, Class 1C	Stainless Steel	S20910
AD1	ASTM A 193/A 193M, Grade B8S, Class 1C	Stainless Steel	S21800
AD2	ASTM A 193/A 193M, Grade B8SA, Class 1C	Stainless Steel	S21800
AD3	ASTM A 193/A 193M, Grade B8, Class 1D	Stainless Steel	S30400
AD4	ASTM A 193/A 193M, Grade B8M, Class 1D	Stainless Steel	S31600
AD5	ASTM A 193/A 193M, Grade B8P, Class 1D	Stainless Steel	S30500

Table 5-1 Material and Treatment: ASTM Material Specifications (Cont'd)**ASTM A 320/A 320M—Alloy-Steel Bolting Materials for Low-Temperature Service (Cont'd)**

PIN	Material Spec	Material	UNS #
AU0	ASTM A 320/A 320M, Grade B8MA, Class 1A	Stainless Steel	—
AU1	ASTM A 320/A 320M, Grade B8MA, Class 1A, Scale-Free Bright Finish Required	Stainless Steel	—
AU2	ASTM A 320/A 320M, Grade B8PA, Class 1A	Stainless Steel	—
AU3	ASTM A 320/A 320M, Grade B8PA, Class 1A, Scale-Free Bright Finish Required	Stainless Steel	—
AU4	ASTM A 320/A 320M, Grade B8FA, Class 1A	Stainless Steel	—
AU5	ASTM A 320/A 320M, Grade B8FA, Class 1A, Scale-Free Bright Finish Required	Stainless Steel	—
AU6	ASTM A 320/A 320M, Grade B8TA, Class 1A	Stainless Steel	—
AU7	ASTM A 320/A 320M, Grade B8TA, Class 1A, Scale-Free Bright Finish Required	Stainless Steel	—
AU8	ASTM A 320/A 320M, Grade B8LNA, Class 1A	Stainless Steel	—
AU9	ASTM A 320/A 320M, Grade B8LNA, Class 1A, Scale-Free Bright Finish Required	Stainless Steel	—
AV0	ASTM A 320/A 320M, Grade B8MLNA, Class 1A	Stainless Steel	—
AV1	ASTM A 320/A 320M, Grade B8MLNA, Class 1A, Scale-Free Bright Finish Required	Stainless Steel	—
AV2	ASTM A 320/A 320M, Grade B8, Class 2	Stainless Steel	S30400
AV3	ASTM A 320/A 320M, Grade B8, Class 2, Scale-Free Bright Finish Required	Stainless Steel	S30400
AV4	ASTM A 320/A 320M, Grade B8C, Class 2	Stainless Steel	S34700
AV5	ASTM A 320/A 320M, Grade B8C, Class 2, Scale-Free Bright Finish Required	Stainless Steel	S34700
AV6	ASTM A 320/A 320M, Grade B8P, Class 2	Stainless Steel	S30500
AV7	ASTM A 320/A 320M, Grade B8P, Class 2, Scale-Free Bright Finish Required	Stainless Steel	S30500
AV8	ASTM A 320/A 320M, Grade B8F, Class 2	Stainless Steel	S30323
AV9	ASTM A 320/A 320M, Grade B8F, Class 2, Scale-Free Bright Finish Required	Stainless Steel	S30323
AW0	ASTM A 320/A 320M, Grade B8M, Class 2	Stainless Steel	S31600
AW1	ASTM A 320/A 320M, Grade B8M, Class 2, Scale-Free Bright Finish Required	Stainless Steel	S31600
AW2	ASTM A 320/A 320M, Grade B8T, Class 2	Stainless Steel	S32100
AW3	ASTM A 320/A 320M, Grade B8T, Class 2, Scale-Free Bright Finish Required	Stainless Steel	S32100

ASTM A 325—Structural Bolts, Steel, Heat Treated, 120/105 ksi Minimum Tensile Strength

PIN	Material Spec	Material	UNS #
AW4	ASTM A 325, Grade Type 1	Carbon Steel	K02706
AW5	ASTM A 325, Grade Type 3	Carbon Steel	K11510

ASTM A 325M—Structural Bolts, Steel Heat Treated 830 Mpa Minimum Tensile Strength (Metric)

PIN	Material Spec	Material	UNS #
AW6	ASTM A 325M, Grade Type 1	Carbon Steel	—
AW7	ASTM A 325M, Grade Type 3	Carbon Steel	—

ASTM A 354—Quenched and Tempered Alloy Steel Bolts, Studs, and Other Externally Threaded Fasteners

PIN	Material Spec	Material	UNS #
AW8	ASTM A 354, Grade BC	Alloy Steel	K04100
AW9	ASTM A 354, Grade BD	Alloy Steel	K04100

Table 5-1 Material and Treatment: ASTM Material Specifications (Cont'd)**ASTM A 394—Steel Transmission Tower Bolts, Zinc-Coated and Bare**

PIN	Material Spec	Material	UNS #
AX0	ASTM A 394, Grade Type 0	Carbon Steel	—
AX1	ASTM A 394, Grade Type 1	Carbon Steel	—
AX2	ASTM A 394, Grade Type 2	Carbon Steel	—
AX3	ASTM A 394, Grade Type 3	Stainless Steel	—

ASTM A 449—Quenched and Tempered Steel Bolts and Studs

PIN	Material Spec	Material	UNS #
AX4	ASTM A 449, Grade Type 1	Carbon Steel	K04200
AX5	ASTM A 449, Grade Type 2	Carbon Steel	K04200
AX6	ASTM A 449, Grade Type 1 or 2	Carbon Steel	K04200

ASTM A 453—Quenched and Tempered Steel Bolts and Studs

PIN	Material Spec	Material	UNS #
AX7	ASTM A 453/A 453M, Grade 660, Class A (130 ksi)	Stainless Steel	S66286
AX8	ASTM A 453/A 453M, Grade 660, Class B (130 ksi)	Stainless Steel	S66286
AX9	ASTM A 453/A 453M, Grade 660, Class C (130 ksi)	Stainless Steel	S66286
AY0	ASTM A 453/A 453M, Grade 651, Class A (100 ksi)	Stainless Steel	S63198
AY1	ASTM A 453/A 453M, Grade 651, Class B (95 ksi)	Stainless Steel	S63198
AY2	ASTM A 453/A 453M, Grade 662, Class A (130 ksi)	Stainless Steel	S66220
AY3	ASTM A 453/A 453M, Grade 662, Class B (125 ksi)	Stainless Steel	S66220
AY4	ASTM A 453/A 453M, Grade 665, Class A (170 ksi)	Stainless Steel	S66545
AY5	ASTM A 453/A 453M, Grade 665, Class B (155 ksi)	Stainless Steel	S66545

ASTM A 489—Carbon Steel Lifting Eyes

PIN	Material Spec	Material	UNS #
AY6	ASTM A 489, Type 1, Style A	Carbon Steel	K04800
AY7	ASTM A 489, Type 1, Style B	Carbon Steel	K04800
AY8	ASTM A 489, Type 2, Style A	Carbon Steel	K04800
AY9	ASTM A 489, Type 2, Style B	Carbon Steel	K04800

ASTM A 490—Structural Bolts, Alloy Steel, Heat Treated, 150 ksi Minimum Tensile Strength

PIN	Material Spec	Material	UNS #
AZ0	ASTM A 490, Type 1	Alloy Steel	K03900
AZ1	ASTM A 490, Type 3	Alloy Steel	K03900

ASTM A 490M—High-Strength Steel Bolts, Classes 10.9 and 10.9.3, for Structural Steel Joints (Metric)

PIN	Material Spec	Material	UNS #
AZ2	ASTM A 490M, Type 1	Alloy Steel	K03900
AZ3	ASTM A 490M, Type 3	Alloy Steel	K03900

Table 5-1 Material and Treatment: ASTM Material Specifications (Cont'd)**ASTM F 468M—Nonferrous Bolts, Hex Cap Screws, and Studs for General Use (Metric) (Cont'd)**

PIN	Material Spec	Material	UNS #
CF6	ASTM F 468M, Alloy 32	Titanium Ti-5-1-1-1	R55111
CF7	ASTM F 468M, Alloy 32, Stress Relieved	Titanium Ti-5-1-1-1	R55111

ASTM A 502—Specifications for Steel Structural Rivets

PIN	Material Spec	Material	UNS #
EP8	ASTM A 502, Grade 1	Carbon Steel	—
EP9	ASTM A 502, Grade 2	Carbon Steel	—
EQ0	ASTM A 502, Grade 3	Carbon Steel	—

ASTM F 541—Alloy Steel Eyebolts

PIN	Material Spec	Material	UNS #
CF8	ASTM F 541, Alloy Steel	Alloy Steel	—

ASTM F 568M—Carbon and Alloy Steel Externally Threaded Metric Fasteners (Metric)

PIN	Material Spec	Material	UNS #
CF9	ASTM F 568M, Grade 4.6 Low or Medium Carbon Steel	Carbon Steel	—

ASTM F 568M—Carbon and Alloy Steel Externally Threaded Metric Fasteners (Metric)

PIN	Material Spec	Material	UNS #
CG0	ASTM F 568M, Grade 4.8 Low or Medium Carbon Steel, Annealed	Carbon Steel	—
CG1	ASTM F 568M, Grade 5.8 Low or Medium Carbon Steel, Cold Worked	Carbon Steel	—
CG2	ASTM F 568M, Grade 8.8 Medium Carbon Steel, Quenched and Tempered	Carbon Steel	—
CG3	ASTM F 568M, Grade 8.8 Low Carbon Martensitic Steel, Quenched and Tempered	Carbon Steel	—
CG4	ASTM F 568M, Grade 8.8.3 Corrosion Resistant Steel, Quenched and Tempered	Carbon Steel	—
CG5	ASTM F 568M, Grade 9.8 Medium Carbon Steel, Quenched and Tempered	Carbon Steel	—
CG6	ASTM F 568M, Grade 9.8 Low Carbon Martensitic Steel, Quenched and Tempered	Carbon Steel	—
CG7	ASTM F 568M, Grade 10.9 Medium Carbon Steel, Quenched and Tempered	Carbon Steel	—
CG8	ASTM F 568M, Grade 10.9 Medium Carbon Alloy Steel, Quenched and Tempered	Alloy Steel	—
CG9	ASTM F 568M, Grade 10.9 Low Carbon Steel	Carbon Steel	—
CH0	ASTM F 568M, Grade 10.9.3 Corrosion Resistant Steel, Quenched and Tempered	Carbon Steel	—
CH1	ASTM F 568M, Grade 12.9 Alloy Steel, Quenched and Tempered	Alloy Steel	—

ASTM F 593—Stainless Steel Bolts, Hex Cap Screws, and Studs

PIN	Material Spec	Material	UNS #
CH2	ASTM F 593, Alloy Group 1, Default Condition CW	Stainless Steel	—
CH3	ASTM F 593, Alloy Group 1, Condition AF	Stainless Steel	—
CH4	ASTM F 593, Alloy Group 1, Condition A	Stainless Steel	—
CH5	ASTM F 593, Alloy Group 1, Condition SH	Stainless Steel	—
CH6	ASTM F 593, Alloy Group 2, Default Condition CW	Stainless Steel	—
CH7	ASTM F 593, Alloy Group 2, Condition AF	Stainless Steel	—
CH8	ASTM F 593, Alloy Group 2, Condition A	Stainless Steel	—

Table 5-1 Material and Treatment: ASTM Material Specifications (Cont'd)

ASTM F 593—Stainless Steel Bolts, Hex Cap Screws, and Studs (Cont'd)			
PIN	Material Spec	Material	UNS #
CH9	ASTM F 593, Alloy Group 2, Condition SH	Stainless Steel	—
CJ0	ASTM F 593, Alloy Group 3, Default Condition CW	Stainless Steel	—
CJ1	ASTM F 593, Alloy Group 3, Condition AF	Stainless Steel	—
CJ2	ASTM F 593, Alloy Group 3, Condition A	Stainless Steel	—

Table 5-1 Material and Treatment: ASTM Material Specifications (Cont'd)**ASTM F 593—Stainless Steel Bolts, Hex Cap Screws, and Studs (Cont'd)**

PIN	Material Spec	Material	UNS #
CJ3	ASTM F 593, Alloy Group 3, Condition SH	Stainless Steel	—
CJ4	ASTM F 593, Alloy Group 4, Default Condition CW	Stainless Steel	S43000
CJ5	ASTM F 593, Alloy Group 4, Condition A	Stainless Steel	S43000
CJ6	ASTM F 593, Alloy Group 5, Default Condition H	Stainless Steel	S41000
CJ7	ASTM F 593, Alloy Group 5, Condition HT	Stainless Steel	S41000
CJ8	ASTM F 593, Alloy Group 6, Default Condition H	Stainless Steel	S43100
CJ9	ASTM F 593, Alloy Group 6, Condition HT	Stainless Steel	S43100
CK0	ASTM F 593, Alloy Group 7, Default Condition AH	Stainless Steel	S17400
CK1	ASTM F 593, Alloy Group 7, Condition NONE	Stainless Steel	S17400
CK2	ASTM F 593, Alloy 303 Only, Default Condition CW	Stainless Steel	S30300
CK3	ASTM F 593, Alloy 303 Only, Condition AF	Stainless Steel	S30300
CK4	ASTM F 593, Alloy 303 Only, Condition A	Stainless Steel	S30300
CK5	ASTM F 593, Alloy 303 Only, Condition SH	Stainless Steel	S30300
CK6	ASTM F 593, Alloy 303 Se Only, Default Condition CW	Stainless Steel	S30323
CK7	ASTM F 593, Alloy 303 Se Only, Condition AF	Stainless Steel	S30323
CK8	ASTM F 593, Alloy 303 Se Only, Condition A	Stainless Steel	S30323
CK9	ASTM F 593, Alloy 303 Se Only, Condition SH	Stainless Steel	S30323
CL0	ASTM F 593, Alloy 304 Only, Default Condition CW	Stainless Steel	S30400
CL1	ASTM F 593, Alloy 304 Only, Condition AF	Stainless Steel	S30400
CL2	ASTM F 593, Alloy 304 Only, Condition A	Stainless Steel	S30400
CL3	ASTM F 593, Alloy 304 Only, Condition SH	Stainless Steel	S30400
CL4	ASTM F 593, Alloy 304L Only, Default Condition CW	Stainless Steel	S30403
CL5	ASTM F 593, Alloy 384 L Only, Condition AF	Stainless Steel	S30403
CL6	ASTM F 593, Alloy 384 L Only, Condition A	Stainless Steel	S30403
CL7	ASTM F 593, Alloy 384 L Only, Condition SH	Stainless Steel	S30403
CL8	ASTM F 593, Alloy 305 Only, Default Condition CW	Stainless Steel	S30500
CL9	ASTM F 593, Alloy 305 Only, Condition AF	Stainless Steel	S30500
CM0	ASTM F 593, Alloy 305 Only, Condition A	Stainless Steel	S30500
CM1	ASTM F 593, Alloy 305 Only, Condition SH	Stainless Steel	S30500
CM2	ASTM F 593, Alloy 384 Only, Default Condition CW	Stainless Steel	S38400
CM3	ASTM F 593, Alloy 384 Only, Condition AF	Stainless Steel	S38400
CM4	ASTM F 593, Alloy 384 Only, Condition A	Stainless Steel	S38400
CM5	ASTM F 593, Alloy 384 Only, Condition SH	Stainless Steel	S38400
CM6	ASTM F 593, Alloy XM1 Only, Default Condition CW	Stainless Steel	S20300
CM7	ASTM F 593, Alloy XM1 Only, Condition AF	Stainless Steel	S20300

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Table 5-3 Material and Treatment: UNS Heat and Corrosion Resisting Steel (Cont'd)**(a)**

PIN	Material Spec	Material
SN4	440B, S44003, Quenched and Tempered	Hardenable Cr Stainless Steel (440 B)
SN5	440C, S44004, Annealed	Hardenable Cr Stainless Steel (440 C)
SN6	440C, S44004, Quenched and Tempered	Hardenable Cr Stainless Steel (440 C)
SN7	501, S50100, Annealed	Cr Heat Resisting Steel
SN8	501, S50100, Quenched and Tempered	Cr Heat Resisting Steel
SP3	502, S50200, Annealed	Cr Heat Resisting Steel
SP4	502, S50200, Quenched and Tempered	Cr Heat Resisting Steel
SP5	503, S50300, Annealed	Cr Heat Resisting Steel
SP6	503, S50300, Quenched and Tempered	Cr Heat Resisting Steel
SP7	504, S50400, Annealed	Cr Heat Resisting Steel
SP8	504, S50400, Quenched and Tempered	Cr Heat Resisting Steel
SP9	UNS S40300, 41000,-400,-600,-623,42000,-020,-200, 43100,44002,-003,-004 (Martensitic S.S.), Annealed	Stainless Steel
SQ0	UNS S40300, 41000,-400,-600,-623,42000,-020,-200, 43100,44002,-003,-004 (Martensitic S.S.), Quenched and Tempered	Stainless Steel
SQ1	A286, S66286, Solution Treated and Aged, S15700	Iron Base Superalloy (A286)
SQ2	15-7PH, Annealed, UNS S15700	Precipitation Hardenable Cr-Ni-Mo-Al Stainless Steel (PH 15-7 Mo)
SQ3	15-7PH, Solution Treated and Aged, S15700	Precipitation Hardenable Cr-Ni-Mo-Al Stainless Steel (PH 15-7 Mo)
SQ4	14-8PH, Annealed, S14800	Precipitation Hardenable Cr-Ni-Mo-Al Stainless Steel (PH 14-8 Mo)
SQ5	14-8PH, Solution Treated and Aged, S14800	Precipitation Hardenable Cr-Ni-Mo-Al Stainless Steel (PH 14-8 Mo)
SQ6	PH-13-8MO, Annealed, S13800	Precipitation Hardenable Cr-Ni-AL-Mo Stainless Steel (PH 13-8 Mo)
SQ7	PH-13-8MO, Solution Treated and Aged, S13800	Precipitation Hardenable Cr-Ni-AL-Mo Stainless Steel (PH 13-8 Mo)
SQ8	15-5PH, Annealed, S15500	Precipitation Hardenable Cr-Ni-Cu Stainless Steel (15-5 PH)
SQ9	15-5PH, Solution Treated and Aged, S15500	Precipitation Hardenable Cr-Ni-Cu Stainless Steel (15-5 PH)
SR0	17-4PH, Annealed, S17400	Precipitation Hardenable Cr-Ni-Cu Stainless Steel (17-4 PH)
SR1	17-4PH, Solution Treated and Aged, S17400	Precipitation Hardenable Cr-Ni-Cu Stainless Steel (17-4 PH)
SR2	17-7PH, Annealed, S17700	Precipitation Hardenable Cr-Ni-Al Stainless Steel (17-7 PH)
SR3	17-7PH, Solution Treated and Aged, S17700	Precipitation Hardenable Cr-Ni-Al Stainless Steel (17-7 PH)
SR4	UNS S15700, 14800, 13800, 15500, 17400, 17700 (Precipitation Hardening), Annealed	Stainless Steel
SR5	UNS S15700, 14800, 13800, 15500, 17400, 17700 (Precipitation Hardening), Solution Treated and Aged	Stainless Steel

(a) **Table 5-4 Material and Treatment: UNS Nonferrous Materials**

PIN	Material Spec	Material
UA1	462, C46200	Naval Brass, 63-1/2%
UA3	2024, A92024	Wrought Aluminum Alloy, Heat Treatable
UA4	6061-T73, A96061	Wrought Aluminum Alloy, Heat Treatable
UA5	7075-T73, A97075	Wrought Aluminum Alloy, Heat Treatable
UA6	UNS A92024, A96061, or A97075	Wrought Aluminum Alloy, Heat Treatable
UA7	110, C11000	Copper, Electrolytic Tough Pitch Copper (ETP)
UA8	145, C14500	Phosphorous Deoxidized Copper
UA9	147, C14700	Sulfur Bearing Copper
UB0	UNS C11000, C14500, or C14700	Copper
UK5	172, C17200	Beryllium Copper
UB1	210, C21000	Gilding, 95% (Copper/Zinc)
UB2	220, C22000	Commercial Bronze, 90%
UB3	230, C23000	Red Brass, 85%
UB4	240, C24000	Low Brass, 80%
UB5	260, C26000	Cartridge Brass, 70%
UB6	268, C26800	Yellow Brass, 66%
UB7	270, C27000	Yellow Brass, 65%
UB8	272, C27200	Brass
UB9	274, C27400	Yellow Brass, 63%
UC0	UNS C21000, 22000, 23000, 24000, 26000, 26800, 27000, 27200, or 27400	Brass
UC1	335, C33500	Low Leaded Brass
UC2	340, C34000	Medium Leaded Brass, 64.5%
UC3	342, C34200	High Leaded Brass, 64.5%
UC4	350, C35000	Medium Leaded Brass, 62%
UC5	3534, C35340	Leaded Brass
UC6	356, C35600	Leaded Brass Alloy
UC7	UNS C33500, 34000, 34200, 35000, 35340, or 35600	Brass
UC8	360, C36000	Free Cutting Brass
UC9	365, C36500	Leaded Muntz Metal, Uninhibited (Cu-Zn-Pb)
UD0	377, C37700	Forging Brass
UD2	464, C46400	Naval Brass, Uninhibited
UD4	482, C48200	Naval Brass, Medium Leaded
UD5	485, C48500	Naval Brass, High Leaded
UD6	510, C51000	Phosphor Bronze, 5% A
UD7	521, C52100	Phosphor Bronze, 8%
UD8	524, C52400	Phosphor Bronze, 10%
UD9	UNS C5100, C52100, or C52400	Phosphor Bronze
UE0	613, C61300	Aluminum Bronze

Table 5-4 Material and Treatment: UNS Nonferrous Materials (Cont'd)

PIN	Material Spec	Material
UE1	614, C61400	Aluminum Bronze D
UE2	619, C61900	Aluminum Bronze
UE3	623, C62300	Aluminum Bronze
UE4	630, C63000	Aluminum Bronze
UE5	630, C63000	Aluminum Bronze
UE6	632, C63200	Aluminum Bronze
UE7	642, C64200	Aluminum Bronze
UE9	6421, C64210	Aluminum Silicon Bronze
UF0	651, C65100	Low Silicon Bronze B
UF1	655, C65500	High Silicon Bronze A
UF2	661, C66100	Silicon Bronze
UF3	675, C67500	Manganese Bronze A
UF4	710, C71000	Copper-Nickel, 20%
UF5	UNS C11000, 27000, 36000, 46200, -400, 48200, 51000, 61300, -400, 63000, -200, 64200, 65100, 65500, 66100, 67500, 71000	Brass/Bronze/Copper-Nickel Alloy
UF6	715, C71500	Copper-Nickel, 30%
UK6	729, C72900	Copper-Nickel Tin Spinodal Alloy
UF7	745, C74500	Nickel Silver, 65-10
UF8	752, C75200	Nickel Silver, 65-18
UF9	757, C75700	Nickel Silver, 65-12
UG0	764, C76400	Nickel Silver
UG1	770, C77000	Nickel Silver, 55-18
UG2	774, C77400	Nickel Silver
UG3	UNS C36500, 37700, 46400, 48200, 48500, 61900, 62300, 63000, 63200, 64200, 64210, 65500, or 77400	Brass/Bronze
UG4	792, C79200	Leaded Nickel Silver
UG5	UNS C71200, 71000, 74500, 75200, 75700, 76400, 77000, or 79200	Leaded Nickel Silver
UG6	Ni400HF, N04400	Ni-Cu Alloy Solid Solution Strengthened (Monel 400)
UG7	R405, N04405	Ni-Cu Alloy Solid Solution Strengthened (Monel R405)
UG8	K5000, N05500	Ni-Cu Alloy Precipitation Hardenable (Monel K500)
UG9	N10001	Ni-Mo Alloy Solid Solution Strengthened (Hastelloy C)
UH0	C276, N10276	Ni-Mo Alloy Solid Solution Strengthened (Hastelloy C276)
UH1	R50250	Titanium, Unalloyed
UH2	R50400	Titanium, Unalloyed
UH3	R50550	Titanium, Unalloyed
UH4	R50700	Titanium, Unalloyed
UH5	R52400	Titanium, Unalloyed
UH6	R54520	Titanium Alloy
UH7	R54521	Titanium Alloy

Table 5-4 Material and Treatment: UNS Nonferrous Materials (Cont'd)

PIN	Material Spec	Material
UH8	R54560	Titanium Alloy
UH9	R54620	Titanium Alloy
UJ0	R54810	Titanium Alloy
UJ1	R56080	Titanium Alloy
UJ2	R56210	Titanium Alloy
UJ3	R56260	Titanium Alloy
UJ4	R56320	Titanium Alloy
UJ5	R56400	Titanium Alloy
UJ6	R56401	Titanium Alloy 6Al-4V ELI
UJ7	R56402	Titanium Alloy Welding Filler Metal
UJ8	R56430	Titanium Alloy
UJ9	R56620	Titanium Alloy
UK0	R58010	Titanium Alloy
UK1	R58030	Titanium Alloy
UK2	R58640	Titanium Alloy Beta C (Grade 19)
UK3	R58820	Titanium Alloy
UK4	UNS R50250,400,550,700,52400,54520- 1,560,620,810,56080,210,260,320,400- 2,430,620,58010,030,640,820	Titanium Alloy

(a) Table 5-5 Material and Treatment: SAE Material Specifications

PIN	Material Spec	Material
WA1	SAE J 429—Grade 2	Carbon Steel
WA2	SAE J 429—Grade 5	Carbon Steel
WA3	SAE J 429—Grade 5.1	Carbon Steel
WA4	SAE J 429—Grade 5.2	Carbon Steel
WA5	SAE J 429—Grade 7	Carbon Steel
WA6	SAE J 429—Grade 8	Carbon Steel
WA7	SAE J 429—Grade 8.2	Carbon Steel
WF1	SAE J 429—Grade 1	Carbon Steel
WF2	SAE J 429—Grade 4	Carbon Steel
WF3	SAE J 429—Grade 8.1	Carbon Steel
WF4	SAE J 430—Grade 0	Carbon Steel
WF5	SAE J 430—Grade 1	Carbon Steel
WF6	SAE J 430—Grade 2	Carbon Steel
WF7	SAE J 430—Grade 3	Carbon Steel
WA8	SAE J 995—Grade 2	Carbon Steel
WA9	SAE J 995—Grade 5	Carbon Steel
WB0	SAE J 995—Grade 8	Carbon Steel
WB1	SAE J 1199 Property Class 4.6	Carbon Steel

Table 5-5 Material and Treatment: SAE Material Specifications (Cont'd)

PIN	Material Spec	Material
WB2	SAE J 1199 Property Class 4.8	Carbon Steel
WB3	SAE J 1199 Property Class 5.8	Carbon Steel
WB4	SAE J 1199 Property Class 8.8	Carbon Steel
WB5	SAE J 1199 Property Class 9	Carbon Steel
WB6	SAE J 1199 Property Class 9.8	Carbon Steel
WB7	SAE J 1199 Property Class 9.8	Carbon Steel
WB8	SAE J 1199 Property Class 10	Carbon Steel
WB9	SAE J 1199 Property Class 10.9	Carbon Steel
WC0	SAE J 1199 Property Class 10.9	Carbon Steel

Table 5-6 Material and Treatment: ISO Material Specifications**(a)**

PIN	Material Spec	Material
WC1	ISO 898-1 Property Class 8.8	Carbon Steel
WC2	ISO 898-1 Property Class 10.9	Carbon Steel
WF8	ISO 898-1 Property Class 4.6	Carbon Steel
WF9	ISO 898-1 Property Class 5.8	Carbon Steel

Table 5-7 Material and Treatment: IFI Material Specifications

PIN	Material Spec	Material
WD1	IFI 140, Grade 1006	Carbon Steel
WD2	IFI 140, Grade 1008	Carbon Steel
WD3	IFI 140, Grade 1010	Carbon Steel
WD4	IFI 140, Grade 1018	Carbon Steel
WD5	IFI 140, Grade 1022/A	Carbon Steel
WD6	IFI 140, Grade 1022/B	Carbon Steel
WD7	IFI 140, Grade 1033	Carbon Steel
WD8	IFI 140, Grade 1035	Carbon Steel
WD9	IFI 140, Grade 1038	Carbon Steel
WE0	IFI 140, Grade 10B21	Carbon Steel
WE1	IFI 140, Grade 10B38	Carbon Steel
WE2	IFI 140, Grade 1335	Alloy Steel
WE3	IFI 140, Grade 1541/A	Carbon Steel
WE4	IFI 140, Grade 1541/B	Carbon Steel
WE5	IFI 140, Grade 4037	Alloy Steel
WE6	IFI 140, Grade 4042	Alloy Steel
WE7	IFI 140, Grade 4118	Alloy Steel
WE8	IFI 140, Grade 4140	Alloy Steel
WF0	IFI 140, Grade 8637	Alloy Steel
WF9	IFI 140, Grade 5140	Alloy Steel

Table 6-1 Plating, Coating, and Passivation: Plain, Unfinished

<i>Plain, No Finish—</i>		
PIN	Finish Spec	Finish
A1	Plain, No Finish	None

Table 6-2 Plating, Coating, and Passivation: ASTM Finish Specifications***ASTM A 153—Zinc Coating (Hot-Dip) on Iron and Steel Hardware***

PIN	Finish Spec	Finish
A2	ASTM A 153	Zinc Plate

ASTM A 380—Cleaning, Descaling, and Passivation of Stainless Steel Parts

PIN	Finish Spec	Finish
A3	ASTM A 380	Passivate

ASTM B 633—Electrodeposited Coatings of Zinc on Iron and Steel

PIN	Finish Spec	Finish
A4	ASTM B 633, Type I, SC 1	Zinc Plate
A5	ASTM B 633, Type I, SC 2	Zinc Plate
A6	ASTM B 633, Type I, SC 3	Zinc Plate
A7	ASTM B 633, Type I, SC 4	Zinc Plate
A8	ASTM B 633, Type II, SC 1	Zinc Plate
A9	ASTM B 633, Type II, SC 2	Zinc Plate
AA	ASTM B 633, Type II, SC 3	Zinc Plate
AB	ASTM B 633, Type II, SC 4	Zinc Plate
AC	ASTM B 633, Type III, SC 1	Zinc Plate
AD	ASTM B 633, Type III, SC 2	Zinc Plate
AE	ASTM B 633, Type III, SC 3	Zinc Plate
AF	ASTM B 633, Type III, SC 4	Zinc Plate
AG	ASTM B 633, Type IV, SC 1	Zinc Plate
AH	ASTM B 633, Type IV, SC 2	Zinc Plate
AJ	ASTM B 633, Type IV, SC 3	Zinc Plate
AK	ASTM B 633, Type IV, SC 4	Zinc Plate

ASTM B 695—Coatings of Zinc Mechanically Deposited on Iron and Steel

PIN	Finish Spec	Finish
AL	ASTM B 695, Type I, Class 5	Zinc Plate
AM	ASTM B 695, Type I, Class 8	Zinc Plate
AN	ASTM B 695, Type I, Class 12	Zinc Plate
AP	ASTM B 695, Type I, Class 25	Zinc Plate
AQ	ASTM B 695, Type I, Class 40	Zinc Plate

Table 6-2 Plating, Coating, and Passivation: ASTM Finish Specifications (Cont'd)***ASTM F 1941M—Electrodeposited Coatings on Threaded Fasteners/Zinc Cobalt Alloy, Fe/Zn-Co (Metric) (Cont'd)***

PIN	Finish Spec	Finish
JG	ASTM F 1941M, Zinc Cobalt Alloy Fe/Zn-Co, Type 8B	Zinc Plate
JH	ASTM F 1941M, Zinc Cobalt Alloy Fe/Zn-Co, Type 8C	Zinc Plate
JJ	ASTM F 1941M, Zinc Cobalt Alloy Fe/Zn-Co, Type 8D	Zinc Plate
JK	ASTM F 1941M, Zinc Cobalt Alloy Fe/Zn-Co, Type 8E	Zinc Plate
JL	ASTM F 1941M, Zinc Cobalt Alloy Fe/Zn-Co, Type 8F	Zinc Plate
JM	ASTM F 1941M, Zinc Cobalt Alloy Fe/Zn-Co, Type 12A	Zinc Plate
JN	ASTM F 1941M, Zinc Cobalt Alloy Fe/Zn-Co, Type 12B	Zinc Plate
JP	ASTM F 1941M, Zinc Cobalt Alloy Fe/Zn-Co, Type 12C	Zinc Plate
JQ	ASTM F 1941M, Zinc Cobalt Alloy Fe/Zn-Co, Type 12D	Zinc Plate
JR	ASTM F 1941M, Zinc Cobalt Alloy Fe/Zn-Co, Type 12E	Zinc Plate
JS	ASTM F 1941M, Zinc Cobalt Alloy Fe/Zn-Co, Type 12F	Zinc Plate

ASTM F 1941M—Electrodeposited Coatings on Threaded Fasteners/Zinc Nickel Alloy, Fe/Zn-Ni (Metric)

PIN	Finish Spec	Finish
JT	ASTM F 1941M, Zinc Nickel Alloy Fe/Zn-Ni, Type 3A	Zinc Plate
JU	ASTM F 1941M, Zinc Nickel Alloy Fe/Zn-Ni, Type 3B	Zinc Plate
JV	ASTM F 1941M, Zinc Nickel Alloy Fe/Zn-Ni, Type 3C	Zinc Plate
JW	ASTM F 1941M, Zinc Nickel Alloy Fe/Zn-Ni, Type 3D	Zinc Plate
JX	ASTM F 1941M, Zinc Nickel Alloy Fe/Zn-Ni, Type 3E	Zinc Plate
JY	ASTM F 1941M, Zinc Nickel Alloy Fe/Zn-Ni, Type 3F	Zinc Plate
JZ	ASTM F 1941M, Zinc Nickel Alloy Fe/Zn-Ni, Type 5A	Zinc Plate
K0	ASTM F 1941M, Zinc Nickel Alloy Fe/Zn-Ni, Type 5B	Zinc Plate
K1	ASTM F 1941M, Zinc Nickel Alloy Fe/Zn-Ni, Type 5C	Zinc Plate
K2	ASTM F 1941M, Zinc Nickel Alloy Fe/Zn-Ni, Type 5D	Zinc Plate
K3	ASTM F 1941M, Zinc Nickel Alloy Fe/Zn-Ni, Type 5E	Zinc Plate
K4	ASTM F 1941M, Zinc Nickel Alloy Fe/Zn-Ni, Type 5F	Zinc Plate
K5	ASTM F 1941M, Zinc Nickel Alloy Fe/Zn-Ni, Type 8A	Zinc Plate
K6	ASTM F 1941M, Zinc Nickel Alloy Fe/Zn-Ni, Type 8B	Zinc Plate
K7	ASTM F 1941M, Zinc Nickel Alloy Fe/Zn-Ni, Type 8C	Zinc Plate
K8	ASTM F 1941M, Zinc Nickel Alloy Fe/Zn-Ni, Type 8D	Zinc Plate
K9	ASTM F 1941M, Zinc Nickel Alloy Fe/Zn-Ni, Type 8E	Zinc Plate
KA	ASTM F 1941M, Zinc Nickel Alloy Fe/Zn-Ni, Type 8F	Zinc Plate
KB	ASTM F 1941M, Zinc Nickel Alloy Fe/Zn-Ni, Type 12A	Zinc Plate
KC	ASTM F 1941M, Zinc Nickel Alloy Fe/Zn-Ni, Type 12B	Zinc Plate
KD	ASTM F 1941M, Zinc Nickel Alloy Fe/Zn-Ni, Type 12C	Zinc Plate
KE	ASTM F 1941M, Zinc Nickel Alloy Fe/Zn-Ni, Type 12D	Zinc Plate
KF	ASTM F 1941M, Zinc Nickel Alloy Fe/Zn-Ni, Type 12E	Zinc Plate
KG	ASTM F 1941M, Zinc Nickel Alloy Fe/Zn-Ni, Type 12F	Zinc Plate

(a) **Table 6-2 Plating, Coating, and Passivation: ASTM Finish Specifications (Cont'd)****ASTM F 1941M—Electrodeposited Coatings on Threaded Fasteners/Zinc Iron Alloy, Fe/Zn-Fe (Metric)**

PIN	Finish Spec	Finish
KH	ASTM F 1941M, Zinc Iron Alloy Fe/Zn-Fe, Type 3A	Zinc Plate
KJ	ASTM F 1941M, Zinc Iron Alloy Fe/Zn-Fe, Type 3B	Zinc Plate
KK	ASTM F 1941M, Zinc Iron Alloy Fe/Zn-Fe, Type 3C	Zinc Plate
KL	ASTM F 1941M, Zinc Iron Alloy Fe/Zn-Fe, Type 3D	Zinc Plate
KM	ASTM F 1941M, Zinc Iron Alloy Fe/Zn-Fe, Type 3E	Zinc Plate
KN	ASTM F 1941M, Zinc Iron Alloy Fe/Zn-Fe, Type 3F	Zinc Plate
KP	ASTM F 1941M, Zinc Iron Alloy Fe/Zn-Fe, Type 5A	Zinc Plate
KQ	ASTM F 1941M, Zinc Iron Alloy Fe/Zn-Fe, Type 5B	Zinc Plate
KR	ASTM F 1941M, Zinc Iron Alloy Fe/Zn-Fe, Type 5C	Zinc Plate
KS	ASTM F 1941M, Zinc Iron Alloy Fe/Zn-Fe, Type 5D	Zinc Plate
KT	ASTM F 1941M, Zinc Iron Alloy Fe/Zn-Fe, Type 5E	Zinc Plate
KU	ASTM F 1941M, Zinc Iron Alloy Fe/Zn-Fe, Type 5F	Zinc Plate
KV	ASTM F 1941M, Zinc Iron Alloy Fe/Zn-Fe, Type 8A	Zinc Plate
KW	ASTM F 1941M, Zinc Iron Alloy Fe/Zn-Fe, Type 8B	Zinc Plate
KX	ASTM F 1941M, Zinc Iron Alloy Fe/Zn-Fe, Type 8C	Zinc Plate
KY	ASTM F 1941M, Zinc Iron Alloy Fe/Zn-Fe, Type 8D	Zinc Plate
KZ	ASTM F 1941M, Zinc Iron Alloy Fe/Zn-Fe, Type 8E	Zinc Plate
L0	ASTM F 1941M, Zinc Iron Alloy Fe/Zn-Fe, Type 8F	Zinc Plate
L1	ASTM F 1941M, Zinc Iron Alloy Fe/Zn-Fe, Type 12A	Zinc Plate
L2	ASTM F 1941M, Zinc Iron Alloy Fe/Zn-Fe, Type 12B	Zinc Plate
L3	ASTM F 1941M, Zinc Iron Alloy Fe/Zn-Fe, Type 12C	Zinc Plate
L4	ASTM F 1941M, Zinc Iron Alloy Fe/Zn-Fe, Type 12D	Zinc Plate
L5	ASTM F 1941M, Zinc Iron Alloy Fe/Zn-Fe, Type 12E	Zinc Plate
L6	ASTM F 1941M, Zinc Iron Alloy Fe/Zn-Fe, Type 12F	Zinc Plate

ASTM F 2329—Zinc Coating, Hot-Dip, Requirements for Application to Carbon and Alloy Steel Bolts, Screws, Washers, Nuts, and Special Threaded Fasteners

PIN	Finish Spec	Finish
M2	ASTM F 2329	Hot-Dip Zinc Coating

Table 6-3 Plating, Coating, and Passivation: Government Finish Specifications**MIL-C-13924D—Coating, Oxide, Black for Ferrous Metals**

PIN	Finish Spec	Finish
L7	MIL-C-13924D, Class 1	Black Oxide Coating
L8	MIL-C-13924D, Class 3	Black Oxide Coating
L9	MIL-C-13924D, Class 4	Black Oxide Coating

MIL-DTL-16232G—Phosphate Coatings, Heavy Manganese or Zinc Base (For Ferrous Metals)

PIN	Finish Spec	Finish
LA	DOD-P-16232, Type M, Class 1	Phosphate Coating
LB	DOD-P-16232, Type M, Class 2	Phosphate Coating

Table 6-2 Plating, Coating, and Passivation: ASTM Finish Specifications (Cont'd)

<i>MIL-DTL-16232G—Phosphate Coatings, Heavy Manganese or Zinc Base (For Ferrous Metals) (Cont'd)</i>		
PIN	Finish Spec	Finish
LC	DOD-P-16232, Type M, Class 3	Phosphate Coating
LD	DOD-P-16232, Type M, Class 4	Phosphate Coating

Table 6-3 Plating, Coating, and Passivation: Government Finish Specifications (Cont'd)***MIL-DTL-16232G—Phosphate Coatings, Heavy Manganese or Zinc Base (For Ferrous Metals) (Cont'd)***

LE	DOD-P-16232, Type Z, Class 1	Phosphate Coating
LF	DOD-P-16232, Type Z, Class 2	Phosphate Coating
LG	DOD-P-16232, Type Z, Class 3	Phosphate Coating
LH	DOD-P-16232, Type Z, Class 4	Phosphate Coating

MIL-F-495E—Finish, Chemical, Black, for Copper Alloys

PIN	Finish Spec	Finish
LJ	MIL-F-495E	Black Oxide Coating

Table 6-4 Plating, Coating, and Passivation: SAE Finish Specifications***SAE AMS-QQ-N-290—Nickel Plating (Electrodeposited)***

PIN	Finish Spec	Finish
LK	SAE-AMS-QQ-N-290, Class 1, Grade E	Nickel Coating
LL	SAE-AMS-QQ-N-290, Class 1, Grade F	Nickel Coating
LM	SAE-AMS-QQ-N-290, Class 1, Grade G	Nickel Coating

SAE AMS-QQ-P-35—Passivation Treatments for Corrosion Resistant Steel

PIN	Finish Spec	Finish
LN	SAE-AMS-QQ-P-35, Type II	Passivate
LP	SAE-AMS-QQ-P-35, Type VI	Passivate
LQ	SAE-AMS-QQ-P-35, Type VII	Passivate
LR	SAE-AMS-QQ-P-35, Type VIII	Passivate

SAE AMS-QQ-P-416—Plating, Cadmium (Electrodeposited)

PIN	Finish Spec	Finish
LS	SAE-AMS-QQ-P-416, Type I, Class 1	Cadmium Plate
LT	SAE-AMS-QQ-P-416, Type I, Class 2	Cadmium Plate
LU	SAE-AMS-QQ-P-416, Type I, Class 3	Cadmium Plate
LV	SAE-AMS-QQ-P-416, Type II, Class 1	Cadmium Plate
LW	SAE-AMS-QQ-P-416, Type II, Class 2	Cadmium Plate
LX	SAE-AMS-QQ-P-416, Type II, Class 3	Cadmium Plate
LY	SAE-AMS-QQ-P-416, Type III, Class 1	Cadmium Plate
LZ	SAE-AMS-QQ-P-416, Type III, Class 2	Cadmium Plate

SAE AS 5272—Lubricant, Solid Film, Heat Cured Corrosion Inhibiting

PIN	Finish Spec	Finish
M0	SAE AS 5272, Type I	Solid Film Lubricant
M1	SAE AS 5272, Type II	Solid Film Lubricant

Table 7-1 Plain: No Additional Features

PIN	Description
1	No Additional Features

Table 7-6 Neck Options for Large Rivets

PIN	Description
1	Straight Shank to Head
2	Swell Neck

(a) Table 7-2 Misc. Features for Externally Threaded Fasteners

PIN	Description
1	Plain End—No Additional Features
2	Pointed—No Additional Features
6	Plain End—Optional-Type Self-Locking*
7	Plain End—Drilled Head
B	Plain End—Optional-Type Self-Locking Element, Drilled Head*
C	Plain End—Drilled Shank
G	Pointed—Optional-Type Self-Locking Element*
H	Pointed—Drilled Head
M	Pointed—Optional-Type Self-Locking Element, Drilled Head*
N	Pointed—Drilled Shank
-	* as specified by the purchaser

Table 7-7 Cotter Pin Type

PIN	Description
1	Extended Prong Type
2	Hammer Lock Type

Table 7-8 Pin Type

PIN	Description
1	Chamfered Straight
2	Square End Straight

Table 7-3 General Point Options

PIN	Description
1	Plain End
2	Header Point

Table 7-4 Features for Metric Flange Screws

PIN	Description
2	Header Point, Type F Fillet
4	Header Point, Type U Fillet

Table 7-5 Features for Metric 12-Spline Screws

PIN	Description
2	Header Point, Type A Fillet
4	Header Point, Type B Fillet

Table 7-9 Sems Washer Components

PIN	Description
1	Helical Spring Lock Washer Component
2	External Tooth Lock Washer Component
3	Internal Tooth Lock Washer Component
4	Type L Narrow Conical Spring Washer Component
5	Type L Regular Conical Spring Washer Component
6	Type L Wide Conical Spring Washer Component
7	Type H Narrow Conical Spring Washer Component
8	Type H Regular Conical Spring Washer Component
9	Type H Wide Conical Spring Washer Component
A	Plain Narrow Washer Component
B	Plain Regular Washer Component
C	Plain Wide Washer Component

Table 7-10 Wood Screw Thread Types

PIN	Description
C	Cut Thread Wood Screws
R	Rolled Thread Wood Screws
P	Cut or Rolled Thread Wood Screws

Table 7-12 Self-Locking Elements for Set Screws (a)

PIN	Description
1	No Additional Features
6	Self-Locking Element*
-	* as specified by the purchaser

(a) Table 7-11 Misc. Features for Socket Head Cap Screws

PIN	Description
1	Undrilled Head, No Additional Features
6	Undrilled Head, Self-Locking Element*
7	2 Drilled Head Holes, No Additional Features
B	2 Drilled Head Holes, Optional-Type Self-Locking Element*
C	4 Drilled Head Holes, No Additional Features
G	4 Drilled Head Holes, Optional-Type Self-Locking Element*
H	6 Drilled Head Holes, No Additional Features
M	6 Drilled Head Holes, Optional-Type Self-Locking Element*
-	* as specified by the purchaser

Table 7-13 Thread Class for Track Bolts and Nuts (a)

PIN	Description
A	Free Fit
B	Wrench Turn Fit
I	No Additional Features

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