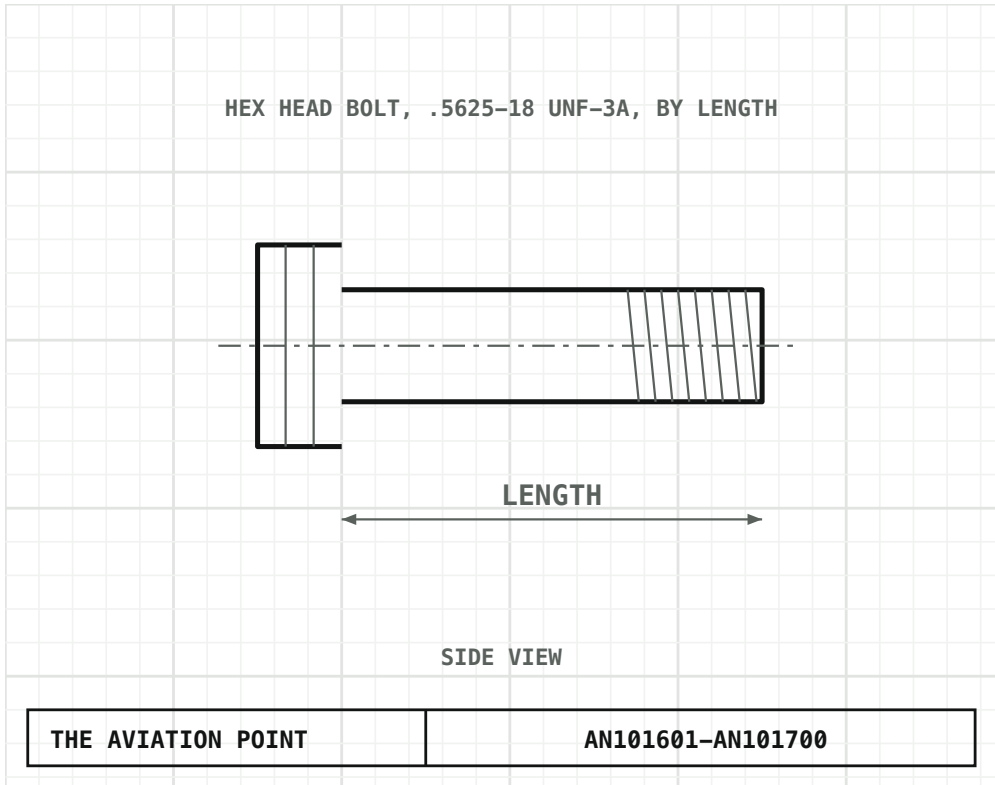
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AN101601-AN101700 — hex head bolt, .5625-18 UNF-3A, by length

AN101601-AN101700: .5625-18 UNF-3A hex head bolt, one part number per length, AN101606 to AN101652.



Engineering drawing · dimensions in inches

Specification

Item	Value
Type	Hexagon head bolt
Material	Steel AMS6322, hardness Rockwell C26-32; manufacturing specification AMS7452
Finish	Cadmium plate AMS2400
Status	Check the current issue before design use. Inactive for new design after 3 Mar 1969; no superseding standard.

Dimensions by size

Dimension, in	.5625-18 UNF-3A
Thread	.5625-18 UNF-3A
A max — A dia (shank), max	.562
A min — A dia (shank), min	.558
B max — B, max (across flats)	.877
B min — B, min (across flats)	.865
C — C, min (across corners)	.990
D — D (head height)	.312
W — W dia (bearing face, head chamfer 30°)	.875
E — E × 45°, approx (end chamfer)	.062

Dimensions in inches, from the drawing of the standard. L and K are the standard's letters; A, B, C, D, E and W are assigned on this datasheet.

Part numbers

.5625-18 UNF-3A 47 part numbers

Part no.	L, in	K to full thread, in
AN101606	1.062	.125
AN101607	1.125	.188
AN101608	1.188	.250
AN101609	1.250	.312
AN101610	1.312	.375
AN101611	1.375	.438
AN101612	1.438	.500
AN101613	1.500	.562
AN101614	1.562	.625
AN101615	1.625	.688
AN101616	1.688	.750
AN101617	1.750	.812
AN101618	1.812	.875
AN101619	1.875	.938
AN101620	2.000	1.062
AN101621	2.125	1.188
AN101622	2.250	1.312
AN101623	2.375	1.438
AN101624	2.500	1.562
AN101625	2.625	1.688
AN101626	2.750	1.812
AN101627	2.875	1.938
AN101628	3.000	2.062
AN101629	3.125	2.188
AN101630	3.250	2.312
AN101631	3.375	2.438
AN101632	3.500	2.562
AN101633	3.625	2.688
AN101634	3.750	2.812
AN101635	3.875	2.938
AN101636	4.000	3.062
AN101637	4.125	3.188
AN101638	4.250	3.312
AN101639	4.375	3.438
AN101640	4.500	3.562
AN101641	4.625	3.688
AN101642	4.750	3.812
AN101643	4.875	3.938
AN101644	5.000	4.062
AN101645	5.125	4.188
AN101646	5.250	4.312
AN101647	5.375	4.438
AN101648	5.500	4.562
AN101649	5.625	4.688
AN101650	5.750	4.812
AN101651	5.875	4.938
AN101652	6.000	5.062

How to read the part number

Part	Meaning
Format	AN101<dash>
Example	AN101652 — Hex head bolt, .5625-18 UNF-3A, L 6.000, K 5.062

Reference data. The aircraft manufacturer's documentation (SRM / IPC) takes precedence.

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Notes

- Each part number is one length L; K is the length to full thread (+.000 −.060). Do not use unassigned part numbers.
- Shank straight within .002 FIR per inch of bolt length; thread pitch diameter concentric with the shank within .006 FIR; shank concentric with the washer face diameter and hexagon within .026 FIR.
- Bearing face square with the shank within .003 FIR; head chamfer 30° to the bearing face diameter (opposite side optional); fillet under the head R .005 to .015; max 2 imperfect threads.
- Thread per MIL-S-7742. Material identification per AMS2800, raised or depressed .010 max.
- All parts undergo magnetic inspection per AMS2640. Break sharp edges .003 to .015 unless otherwise specified. Unless otherwise specified: linear ±.010, angular ±2°.
- Approved data governs. Use the bolt the SRM, drawing or IPC calls for.

SOURCES · AN101601 thru AN101700 Rev. 3, 30 Jun 1986 — Bolt — Hex Head, .5625-18

SCAN · OPEN THIS DATA SHEET
theaviationpoint.com/parts/structural-bolts/an101601-an101700/

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