

INCH-POUND

A-A-55628A
 17 February 1998
 SUPERSEDING
 A-A-55628
 3 December 1997

COMMERCIAL ITEM DESCRIPTION

NUT, PLAIN, CAP, HIGH CROWN
 UNC-2B AND UNF-2B

The General Services Administration has authorized the use of this commercial item description for all federal agencies.

1. Scope. This Commercial Item Description (CID) depicts the requirements for Nut, Plain, Cap, High Crown, coarse or fine threads, Class 2..

2. Salient characteristics.

2.1 Materials

2.1.1 Steel, carbon, Types UNS (G10180) thru (G10400), (G11160) thru (G11370) or (G12120) thru (G12144).

2.1.2 Steel, corrosion resistant 300 series, Types UNS (3XXXX) series.

2.1.3 Copper alloys UNS (C23000) thru (C64600).

2.1.4 Aluminum alloys UNS (A92017), (A92117), (A96061), or (A96262).

2.1.5 Nylon in accordance with ASTM D4066, Group 1, Class 1 or 2 color natural white.

Protective finish

2.2.1 Carbon steel cap nuts shall be cadmium plate in accordance with QQ-P-416, Type II, Class 2.

Cadmium plate cap nuts should be used only on aerospace applications. No additional codes required for part number.

Zinc plate in accordance with ASTM B633 FE/ZN 5 Type II. Add letter "Z" to end of part number for zinc plate carbon steel cap nut.

Nickel plate in accordance with QQ-N-290 Class 2. Add letter "N" to end of part number for nickel plate carbon steel cap nut.

2.2.2 Steel, corrosion resistant cap nuts shall be cleaned, descaled and passivated in accordance with ASTM A967. No additional codes required for part number.

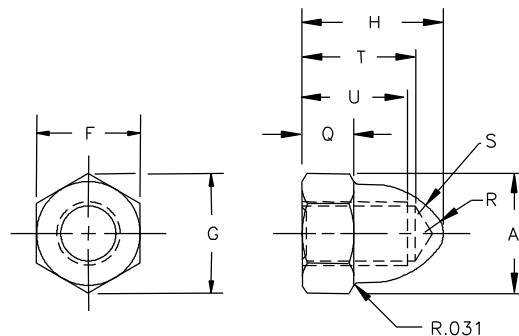
2.2.3 Copper alloy cap nuts shall be black oxide coated in accordance with MIL-F-495. No additional codes required for part number.

Nickel plate in accordance with QQ-N-290 Class 2. Add letter "N" to end of part number for nickel plate copper alloy cap nut.

Plain cap nut with brite surface finish. Add letter "P" to end of part number.

2.2.4 Aluminum alloy cap nut shall be anodized in accordance with MIL-A-8625, Type II, Class 1. No additional codes required for part number.

2.3 Threads shall be right hand UNC or UNF Class 2B in accordance with ASME B1.1. Thread acceptability shall be in accordance with ASME B1.3M system 21.



BENEFICIAL COMMENTS, (RECOMMENDATIONS, ADDITION, DELETIONS, CLARIFICATIONS, ETC., AND DATA WHICH MAY IMPROVE THIS DOCUMENT SHOULD BE SENT TO: DEFENSE INDUSTRIAL SUPPLY CENTER, ATTN: DISC-AESD, 700 ROBBINS AVENUE, PHILADELPHIA, PA. 19111-5096.

ASMC N/A

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FSC 5310

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Table I. Dash numbers

Dash numbers					Size	Thread -2B
Carbon Steel	Cres	Brass	Nylon	Aluminum		
1 61	21 81	411 201	511 301	611 811	.138	32UNC 40UNF
2 62	22 82	412 202	512 302	612 812	.164	32UNC 36UNF
3 63	23 83	413 203	513 303	613 813	.190	24UNC 32UNF
5 65	25 85	415 205	515 305	615 815	.250	20UNC 28UNF
6 66	26 86	416 206	516 306	616 816	.3125	18UNC 24UNF
7 67	27 87	417 207	517 307	617 817	.375	16UNC 24UNF
8 68	28 88	418 208	518 318	618 818	.4375	14UNC 20UNF
9 69	29 89	419 209	519 309	619 819	.500	13UNC 20UNF
10 70	30 90	420 210	520 320	620 820	.5625	12UNC 10UNF
11 71	31 91	421 211	521 311	621 821	.625	11UNC 18UNF
12 72	32 92	422 212	522 312	622 822	.750	10UNC 16UNF
13 73	33 93	423 213	523 323	623 823	.875	9UNC 14UNF
14 74	34 94	424 214	524 314	624 824	1.000	8UNC 12UNF
15 75	35 95	425 215	525 325	625 825	1.125	7UNC 12UNF
16 76	36 96	426 216	526 316	626 826	1.250	7UNC 12UNF

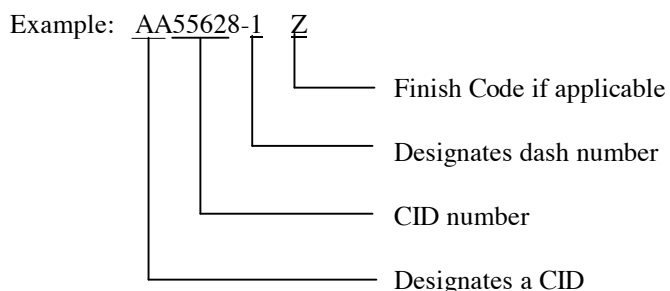
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3. Quality Conformance Provisions.

- 3.1 The suppliers shall be responsible for those in process controls and inspections necessary to supply a product consistently conforming to the requirements of this document.
- 3.2 Upon request, the suppliers will certify with documented test/inspection evidence, that the part supplied meets the requirements of this document.

4. Notes:

- 4.1 All dimensions are in inches, unless otherwise specified. All dimensions and tolerances shall be in accordance with SAE J483.
- 4.2 Interpret drawing in accordance with ASME Y14.5M.
- 4.3 Preservation, packing, and marking shall be as specified in the contract or order.
- 4.4 Cap nuts manufactured prior to date of this Commercial Item Description (CID) are acceptable for use until exhausted.
- 4.5 The part identification number (PIN) shall consist of the basic CID number followed by a dash number from Table I, and a surface finish code when applicable.



AA55628-1Z indicates Nut, plain, cap, high crown, .138-32 UNC-2B thread, carbon steel, Zinc plated.

Ⓐ Table II. Cross – Reference Table.

Cancelled MS PIN	Replacement CID PIN
MS24680 - * <u>1</u> /	AA55628 - * <u>1</u> /

1/ * Represents the same designation codes for both MS and CID PINS.

Custodians:

Air Force - 99
 Army – AR
 Navy – SH

Preparing activity:

DLA-IS
 (Project 5310-2343)

Review activities:

Army – AV, AT
 Navy – AS, MC, OS