INCH-POUND

MS39210J
30 August 2012
SUPERSEDING
MS39210H
29 March 2005

DETAIL SPECIFICATION SHEET

NUTS, TUBE COUPLING – SAFETY SLEEVE COMPRESSION TYPE

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification sheet.

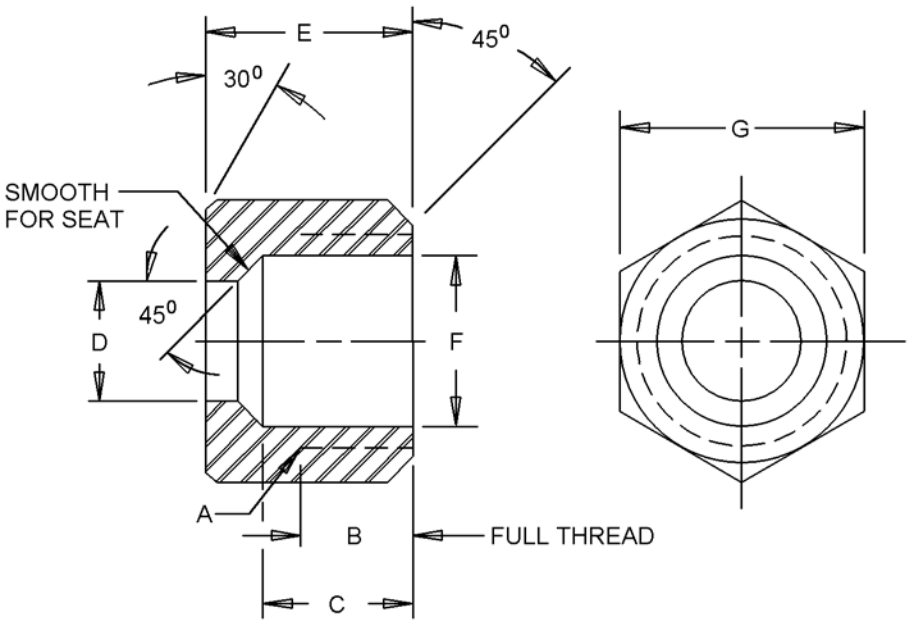


FIGURE 1. Nuts, tube coupling – safety sleeve compression type.

Dash Number	Tube OD	A Thread	B Thread Length (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)
1	1/8	5/16 24UNF-2B	.219 (5.56)	.297 (7.54)	.130 (3.30) .134(3.40)	.438 (11.11)	.275(6.99) .270(6.86)	.438 (11.11)
2	3/16	3/8 24UNF-2B	.219 (5.56)	.297 (7.54)	.190(4.83) .194(4.93)	.438 (11.11)	.338(8.59) .333(8.46)	.500 (12.70)
3	1/4	1/2 20UNF-2B	.281 (7.14)	.359 (3.13)	.255(6.48) .259(6.58)	.563 (14.29)	.454(11.53) .449(11.40)	.625 (15.88)
4	5/16	9/16 18UNF-2B	.281 (7.14)	.390 (3.92)	.318(8.08) .322(8.18)	.578 (14.68)	.512(13.00) .505(12.83)	.688 (17.46)
5	3/8	5/8 18UNF-2B	.313 (7.94)	.422 (10.72)	.380(9.65) .384(9.75)	.625 (15.88)	.575(14.61) .568(14.43)	.750 (19.05)
6	1/2	3/4 16UNF-2B	.328 (3.33)	.453 (11.51)	.506(12.85) .510(12.95)	.688 (17.46)	.693(17.60) .686(17.42)	.875 (22.23)
7	5/8	15/16 16UN-2B	.375 (9.53)	.469 (11.91)	.633(16.08) .637(16.18)	.750 (19.05)	.881(22.38) .874(22.20)	1.125 (28.58)
8	3/4	1-1/16 16UN-2B	.406 (10.32)	.500 (12.70)	.758(19.25) .762(19.35)	.813 (20.64)	1.005(25.53) .999(25.37)	1.250 (31.75)
9	7/8	1-3/16 16UN-2B	.406 (10.32)	.500 (12.70)	.883(22.43) .887(22.53)	.813 (20.64)	1.131(28.73) 1.124(28.55)	1.375 (34.93)
10	1	1-5/16 16UN-2B	.406 (10.32)	.500 (12.70)	1.008(25.60) 1.012(25.70)	.813 (20.64)	1.256(31.90) 1.249(31.72)	1.500 (38.10)
11	1-1/4	1-5/8 16UN-2B	.406 (10.32)	.578 (14.68)	1.206(30.63) 1.264(32.11)	.844 (31.43)	1.568(39.83) 1.561(39.65)	2 (50.80)
12	1-1/2	1-7/8 16UN-2B	.500 (12.70)	.672 (17.07)	1.510(38.35) 1.514(38.46)	.969 (34.61)	1.818(46.18) 1.810(45.97)	2.250 (57.15)

NOTES:

1. Dimensions are in inches, unless otherwise specified. Millimeters are in parentheses.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, the tolerance for 3 place decimals is decimals ± .005, the tolerance for fractions is ± 1/64, the tolerance for degrees is ± 2°.
4. Threads shall be in accordance with FED-STD-H28.
5. Referenced documents shall be of the issue in effect in date of invitations for bid.
6. This illustration is for identification and is not intended to restrict designs or shapes not dimensioned.

FIGURE 1. Nuts, tube coupling – safety sleeve compression type – Continued.

REQUIREMENTS:

Dimensions and configuration: See figure 1.

Tolerances: Unless otherwise specified, decimals ±.005, fractions ±1/64, degrees ±2°.

Threads: The threads shall be in accordance with FED-STD-H28.

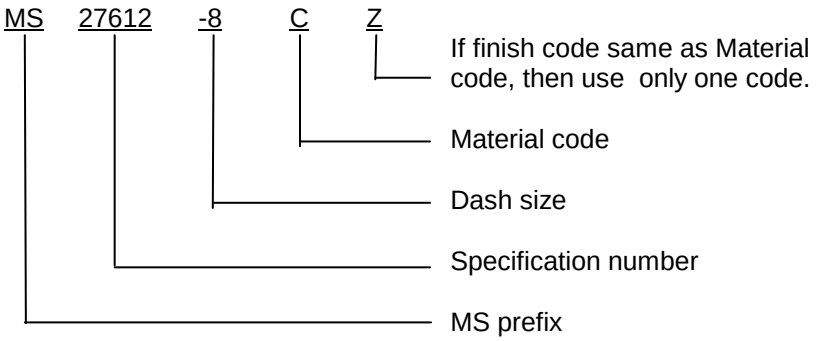
Material:

Code	Material
C	Steel bar, type AISI-C-1112, C-1113, C-1117, C-1118 or C-1137 in accordance with SAE-AIR4127
F	Alloy steel: in accordance with SAE-AIR4127
S	Corrosion resistant steel in accordance with SAE AMS5659, SAE AMS5862 or, alloy 15-5 PH in accordance with ASTM A564/A564M type XM-12 or UNS S15500, or SAE AMS5665

Chemical Finish:

Code	Finish
C	Carbon steel: Cadmium in accordance with SAE-AMS-QQ-P-416, type II, class 3, 200µ inches to 300µ inches (5.08 µm to 7.62 µm) thick.
F	Alloy steel: Cadmium in accordance with SAE-AMS-QQ-P-416, type II, class 3, 200µ inches to 300µ inches (5.08 µm to 7.62 µm) thick.
S	Corrosion resistant steel: Passivate in accordance with SAE AMS2700, type 6 or 7.
Z	Steel, chem finish alternativel: ASTM B633, type VI, FeZn 25.

Part or Identifying Number (PIN) example: (PIN covers the complete item with nuts and sleeves.)



Guidance on use of alternative parts with less hazardous or non-hazardous materials. This specification provides an alternate material, corrosion resistant steel, and Zinc finish via the PIN. Users should select the PIN with the least hazardous material that meets the form, fit, and function requirements of their application.

Changes from previous issue. The margins of this specification are marked with vertical lines to indicate where changes from the previous issue were made. This was done as a convenience only and the government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous issue.

Referenced documents: This document references the following:

FED-STD-H28	SAE AMS 5665
ASTM A564/A564M	SAE AMS5862
ASTM B633	SAE AMS2700
SAE-AIR4127	SAE-AMS-QQ-P-416
SAE AMS5659	

CONCLUDING MATERIAL

Custodians:
Army – AT
Navy-YD
Air Force-99
DLA - CC

Preparing activity:
DLA-CC

(Project 4730-2012-041)

Review activities:
Army –AR
Navy-SA, MC
Air Force-71

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at https://assist.dla.mil.