

INCH-POUND

MIL-C-83413/4A
26 June 1995
SUPERSEDING
MIL-C-83413/4
12 October 1983
MS3493
22 September 1977

MILITARY SPECIFICATION SHEET

CONNECTORS AND ASSEMBLIES, ELECTRICAL, AIRCRAFT
GROUNDING: PLUGS, FOR TYPES I AND II GROUNDING ASSEMBLIES

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 and the issue of the following specification listed
in that issue of the Department of Defense Index of Specifications and
Standards (DODISS) specified in the solicitation: MIL-C-83413.

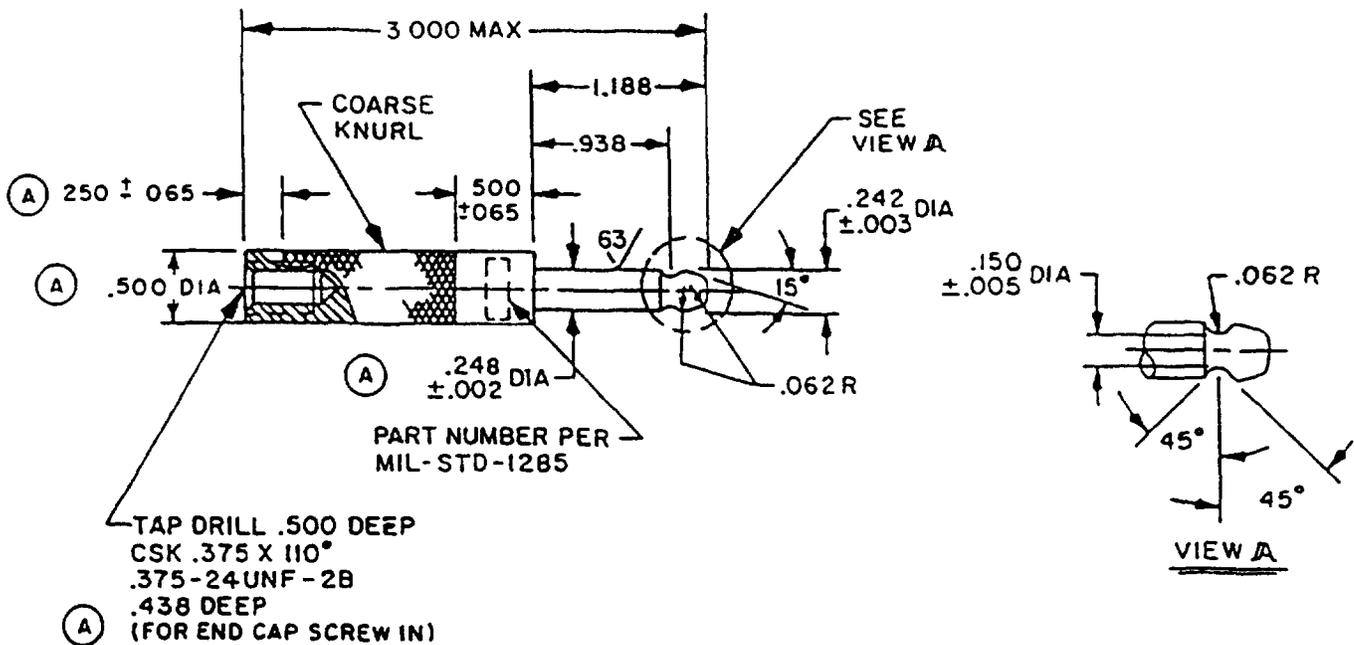


FIGURE 1. Plug, for types I and II grounding assemblies (M83413/4-3). 1/

1/ Optional hexagonal body shape allowed. See requirement 10

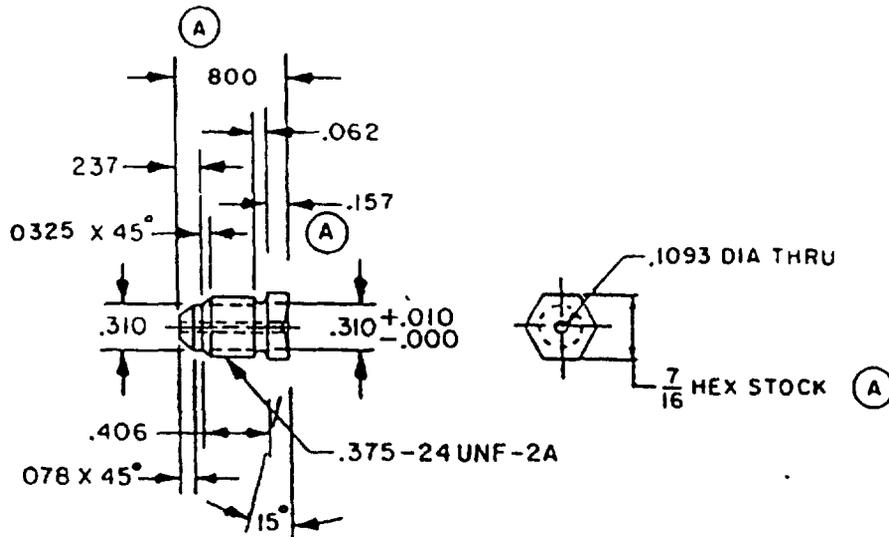
(A) denotes changes

AMSC N/A

DISTRIBUTION STATEMENT A

Approved for public release, distribution is unlimited

FSC 5935



(A) FIGURE 2. End cap (M83413/4-2).

Inch	mm	Inch	mm	Inch	mm
.003	0.08	.125	3.18	.438	11.13
.005	0.13	.157	3.99	.500	12.70
.010	0.25	.237	6.02	.800	20.32
.0325	0.83	.248	6.30	.938	23.83
.062	1.57	.250	6.35	1.188	30.18
.078	1.98	.310	7.87	3.000	76.20
.090	2.29	.375	9.52		
.1093	2.776	.406	10.31		

NOTES:

1. Dimensions are in inches.
2. Metric equivalents (to the nearest .01 mm) are given for general information only and are based on 25.4 mm per inch.
3. This plug will be used with a receptacle having a minimum bore diameter of .251 (6.38 mm) and a maximum bore diameter of .253 (6.43 mm) in accordance with ISO 46 and NATO STANAG 3632. Plugs must mate with receptacles within these dimensions to achieve mandatory international interoperability.
4. Break all sharp edges .010 - .020 (.25 mm - .51 mm)

- (A) 5. The M83413/4-1 plug supersedes plugs with both cylindrical and hexagonal body shapes and various tip dimensions and is functionally interchangeable, although mating forces may vary slightly.

REQUIREMENTS:

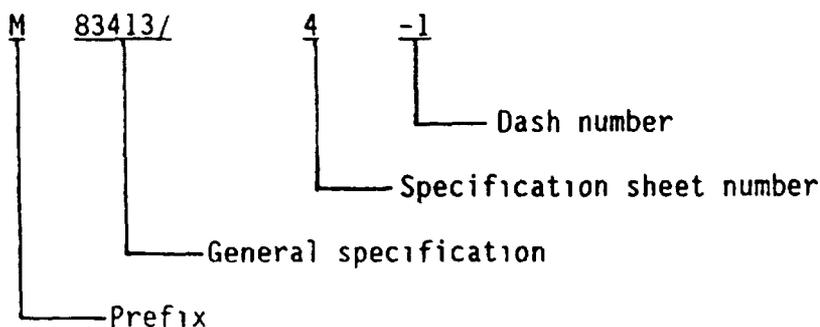
1. Material: Stainless steel per MIL-S-7720, 300 series composition, condition A, passivated per QQ-P-35 for plugs and caps.
2. Contact resistance: .005 ohm maximum.
- (A) 3. Mating receptacle: Per MIL-C-83413/5 or MIL-C-83413/6. Use MIL-C-83413/6 for all qualification and quality conformance tests.
- (A) 4. Dust: Not applicable.
- (A) 5. Part Number: Apply permanently by stamping, etching, embossing or other means approved by the qualifying activity. Dash number marking is optional on part numbers M83413/4-1 and -3. Part number is not required to be marked on M83413/4-2 end caps.
- (A) 6. Qualification: Required. The activity responsible for the Qualified Products List for this specification sheet is the Naval Air Systems Command, Washington, DC 20361-5100; however, information pertaining to qualification may be obtained from the Naval Air Warfare Center Aircraft Division Indianapolis, Code 4.5.6.3, 6000 East 21st Street, Indianapolis, IN 46219-2189.
- (A) 7. Supersession data: In addition to MIL-C-83413/4, the following documents and dash numbers in Table I are also superseded by this specification sheet:
- (A) 8. Unless otherwise specified, tolerance is $\pm .016$ (.41 mm) for decimals and $\pm 0.5^\circ$ for angles.
- (A) 9. Plugs shall be supplied with the end caps screwed in the non-mating end.
- (A) 10. A nominal 7/16-inch hexagonal shaped plug body may be used in lieu of the cylindrical shape shown in figure 1. If the hexagonal shaped body is used, knurling is not required and the .250 and .500 dimensions for positioning the knurling are not applicable.

TABLE I. Supersession data.

Part or identifying number	Description	Supersedes
M83413/4-1	M83413/4-3 plug with M83413/4-2 end cap attached	MS3493-3 MS3493-5 MS25384-2 with MS25384-4
M83413/4-2	7/16 inch end cap	MS3493-2 MS25384-4
M83413/4-3	Knurled cylindrical plug or unknurled hexagonal plug	MS3493-1 MS3493-4 MS25384-2

(A) 8. Part or Identifying Number (PIN)

Example of PIN: M83413/4-1



Certain provisions of this specification sheet are the subject of International Standardization Agreement ASCC 12/25, NATO STANAG 3632 and ISO 46. When amendment, revision or cancellation of this specification sheet is proposed that will modify the international agreement concerned, the preparing activity will take appropriate action through international standardization channels, including departmental standardization offices to change the agreement or make other appropriate accommodations.

Custodians:

Army - AV
Navy - AS
Air Force - 85

Preparing activity:

Navy - AS

(Project 5935-3692-01)

Review activities:

Army - AR, CR, ME, MI
Navy - MC
Air Force - 18, 82, 85, 90, 99
DLA - ES

International interest:

ASCC 12/25
NATO STANAG 3632
ISO 46