

INCH - POUND

MIL-DTL-83413/5C
 04 September 2013
 SUPERSEDING
 MIL-DTL-83413/5B
 w/AMENDMENT 1
 28 January 2013

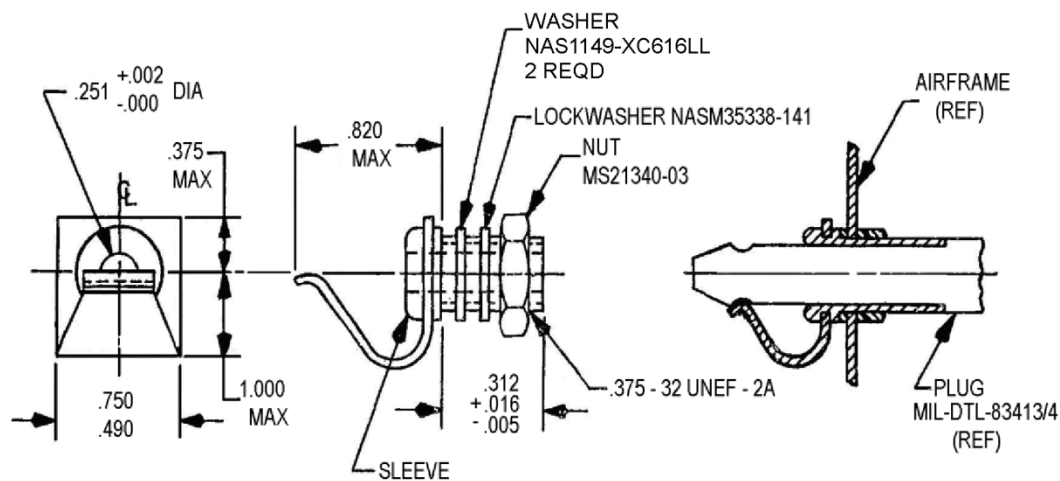
DETAIL SPECIFICATION SHEET

CONNECTORS AND ASSEMBLIES, ELECTRICAL, AIRCRAFT
 GROUNDING: RECEPTACLES, ONE PIECE

Inactive for new design after 01 January 1984. For
 new design use MIL-DTL-83413/6.

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 MIL-DTL-83413.



NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, tolerance is $\pm .016$ (.41mm) for decimals and $\pm 0.5^\circ$ for angles.
4. Where only maximum dimensions are shown, the receptacle need not have the shape shown, but the receptacle including all protrusions shall be contained within maximum outline shown.

Inches	mm	Inches	mm
.001	0.03	.375	9.53
.002	0.05	.490	12.45
.005	0.13	.750	19.05
.016	0.41	.820	20.83
.251	6.38	1.00	25.40
.312	7.92		

FIGURE 1. Grounding receptacle, one-piece.

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REQUIREMENTS:

Dimensions and configuration: See figure 1.

Material:

Sleeve: Brass in accordance with ASTM-B36/B36M.

Contact: Phosphor bronze in accordance with ASTM-B139/B139M.

Finish: Cadmium plate in accordance with SAE-AMS-QQ-P-416, type II, class 2, or aluminum coating or plating, or zinc/ clear plated in accordance with ASTM B633, or Nickel Plated in accordance with ASTM B733.

Threads: In accordance with FED-STD-H28.

Detent action: Shall be provided for the mating plug.

Torque: (test for Qualification Inspection Only) In addition to meeting the requirements of MIL-DTL-83413, the receptacle shall be held fixed while the sleeve is subjected to 20 inch-pounds of torque. The sleeve shall not turn-in, or break loose from the contact, nor shall the contact be deformed.

Durability: In accordance with MIL-DTL-83413, except that the withdrawal force required to clear the detent shall be no less than 8 pounds nor more than 14 pounds.

Contact resistance: Test current 10 ± 1 ampere, millivolts drop 50 maximum.

Altitude-low temperature: Not applicable.

Fluid immersion: Not applicable.

Mating plug: In accordance with MIL-DTL-83413/4.

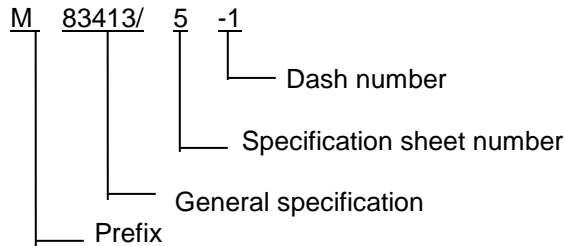
QUALIFICATION:

Qualification is not required for this specification sheet. First article inspection shall be a visual and mechanical inspection in accordance with MIL-DTL-83413.

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Part or Identifying Number (PIN): M83413/5-1.

Example of PIN: M83413/5-1



Certain provisions of this specification sheet are the subject of International Standardization Agreement NATO STANAG 3632. 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 agreement standardization channels, including departmental standardization offices to change the agreement or make other appropriate accommodations.

Amendment notations. The margins of this specification are marked with vertical lines to indicate modifications generated by this amendment. 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.

Referenced documents. In addition to MIL-DTL-83413, this document references the following:

MIL-DTL-83413/4	ASTM-B36/B36M
MIL-DTL-83413/6	ASTM B633
FED-STD-H28	ASTM B733
SAE-AMS-QQ-P-416	NATO STANAG 3632
ASTM-B139/B139M	

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CONCLUDING MATERIAL

Custodians:

Army - AV
Navy – AS
Air Force - 85
DLA - CC

Preparing activity:

DLA - CC

Review activities:

Army - AR, CR, CR4, MI
Navy - MC
Air Force – 99

(Project 5935-2013-191)

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