

INCH POUND

MIL-DTL-83413/7C

24 November 2003

SUPERSEDING

MIL-C-83413/7B

27 December 1993

## DETAIL SPECIFICATION SHEET

CONNECTORS AND ASSEMBLIES, ELECTRICAL, AIRCRAFT  
 GROUNDING: GROUNDING CLAMP CONNECTOR FOR TYPES I AND III  
 GROUNDING ASSEMBLIES, CLIP, ELECTRICAL

This specification is approved for used 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-C-83413.

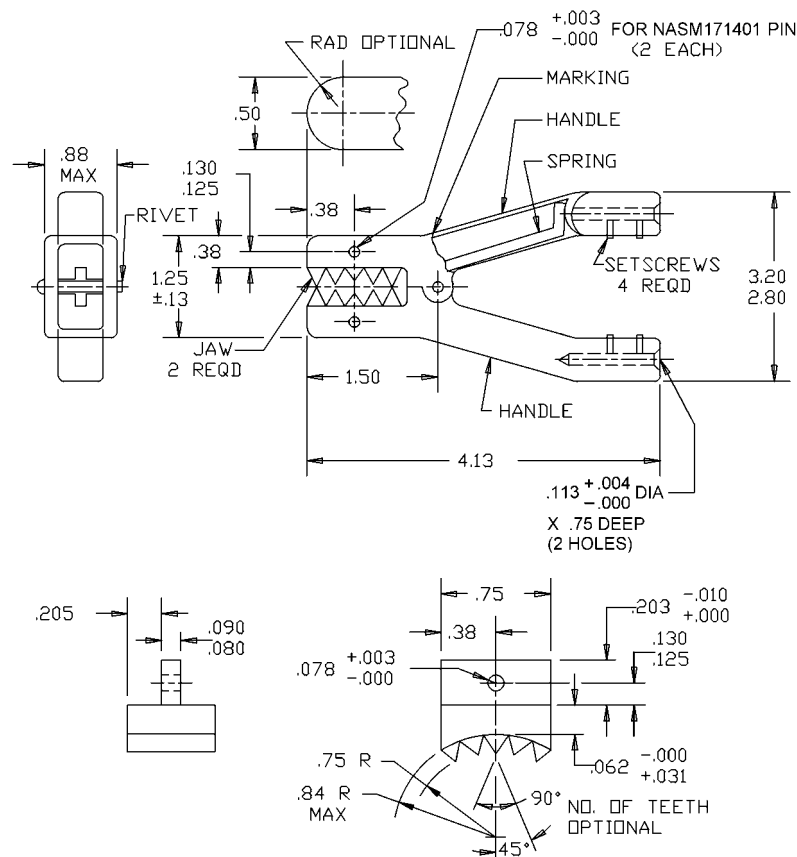


FIGURE 1. Grounding clamp, for types I and III grounding assemblies.

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Inches	mm	Inches	mm	Inches	mm
.003	0.08	.113	2.87	.75	19.1
.004	0.10	.125	3.18	.84	21.3
.010	0.25	.13	3.3	.88	22.4
.031	0.79	.130	3.30	1.25	31.4
.062	1.57	.203	5.16	1.50	38.1
.078	1.98	.205	6.35	2.80	76.1
.080	2.03	.38	9.7	3.20	81.3
.090	2.29	.50	12.7	4.13	104.9

## NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Surface toughness: If cast, smooth cast finish 125 or 250 all over, except machine surface 63.
4. Remove all burrs and sharp edges .010 (0.25 mm) to .020 (0.51 mm) radius.
5. Unless otherwise specified, tolerance is  $\pm .03$  (0.8 mm) on decimals and  $\pm 1^\circ$  on angles.

FIGURE 1. Grounding clamp, for types I and III grounding assemblies - Continued.

## REQUIREMENTS:

Material-handle: Stainless steel in accordance with SAE-AMS-S-7720, composition 302, condition A, passivated in accordance with SAE-AMS-QQ-P-35, or stainless steel in accordance with ASTM A582, type 303 condition A, cleaned in accordance with MIL-S-5002, without passivation or aluminum alloy in accordance with ASTM-A385, ASTM-B26, ASTM-B108 and SAE-J452, SAE-J453, SAE-AMS-4290, SAE-AMS-4291, Alloy 360, A380 or 384.

Clamp connector resistance: Shall not exceed 500 milliohms.

Salt spray: Test procedure number 26, EIA-364.

Part or Identifying Number (PIN): M83413/7-1.

Alternate jaw material: MPIF FX - 1008-110HT in accordance with Metal Powder Industries Federation, 105 College Road East, Princeton, New Jersey 08540.

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### QUALIFICATION:

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

Changes from previous issue. Marginal notations are not used in this revision to identify changes with respect to previous issue due to the extent of the changes.

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

MIL-S-5002	NASM171401
ASTM-A385	SAE-AMS-S-7720
ASTM-B26	SAE-AMS-QQ-P-35
ASTM A582	SAE-J452
ASTM-B108	SAE-J453
EIA-364	SAE-AMS-4290
MPIF FX-1008-110HT	SAE-AMS-4291

### CONCLUDING MATERIAL

#### Custodians:

Army - AV  
Navy - AS  
Air Force - 11  
DLA - CC

#### Preparing activity:

DLA - CC

(Project 5999-4417-002)

#### Review activities:

Army - AR, CR, CR4, MI  
Navy - MC  
Air Force - 02, 13, 18, 82, 99

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 [www.dodssp.daps.mil](http://www.dodssp.daps.mil).