

MILITARY SPECIFICATION

ADAPTER, CONNECTOR, COAXIAL,
RADIOFREQUENCY, BETWEEN SERIES,
TYPE UG-637/U

This specification has been approved by the Department of Defense and is mandatory for use by the Departments of the Army, the Navy, and the Air Force.

1. SCOPE

1.1 This specification covers the detail requirements for type UG-637/U, between series (series C to series UHF), radiofrequency, coaxial connector adapter.

2. APPLICABLE DOCUMENTS

2.1 The following specification, of the issue in effect on date of invitation for bids, forms a part of this specification:

SPECIFICATION

MILITARY

MIL-A-27434 — Adapters, Connector, Coaxial, Radiofrequency, Between Series, General Specification for.

(Copies of specifications required by contractors in connection with specific procurement functions should be obtained from the procuring agency or as directed by the contracting officer.)

3. REQUIREMENTS

3.1 **Requirements.** Requirements shall be in accordance with Specification MIL-A-27434, and as specified herein.

3.2 **Design and construction.** The connector adapter shall be of the design, construction, and physical dimensions specified on figure 1.

3.2.1 *Coupling nut.* The coupling nut shall be free-finger turning.

4. QUALITY ASSURANCE PROVISIONS

4.1 **Sampling and inspection.** Sampling and inspection shall be in accordance with Specification MIL-A-27434, and as specified herein.

4.2 **Dielectric withstanding voltage.** The test voltage shall be 500 volts root mean square, instantaneously applied.

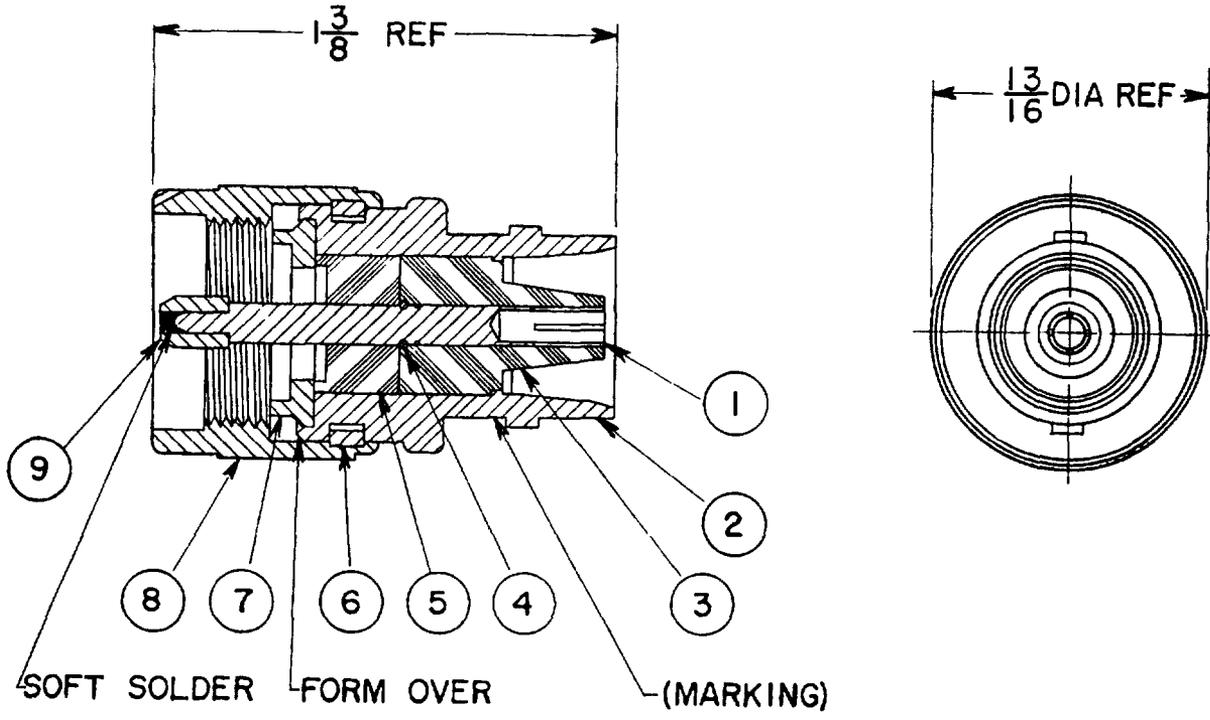
5. PREPARATION FOR DELIVERY

5.1 Preparation for delivery shall be in accordance with Specification MIL-A-27434.

6. NOTES

6.1 **Notes.** In addition to the notes specified herein, the notes specified in Specification MIL-A-27434 are applicable to this specification.

6.2 This specification covers the design of type UG-637/U connector adapter which was previously covered by Military Standard MS35282 (Sig C).



ASSEMBLY

1. All dimensions in inches.
2. Unless otherwise specified, tolerances are $\pm \frac{1}{64}$ on fractions, ± 0.005 on decimals, and $\pm \frac{1}{2}^\circ$ on angles.
3. A pull of 100 pounds on item 8 shall not detach it from item 2.

Item	Description	Material	Quantity
1	Center contact.....	Copper beryllium	1
2	Body.....	Brass	1
3	Insulator.....	Polytetrafluoroethylene.....	1
4	Ring.....	Copper wire.....	1
5	Insulator.....	Polytetrafluoroethylene.....	1
6	Ring.....	Phosphor bronze.....	1
7	Body.....	Brass	1
8	Coupling nut.....	Brass.....	1
9	Center contact.....	Brass.....	1

FIGURE 1 Type UG-637/U connector adapter.

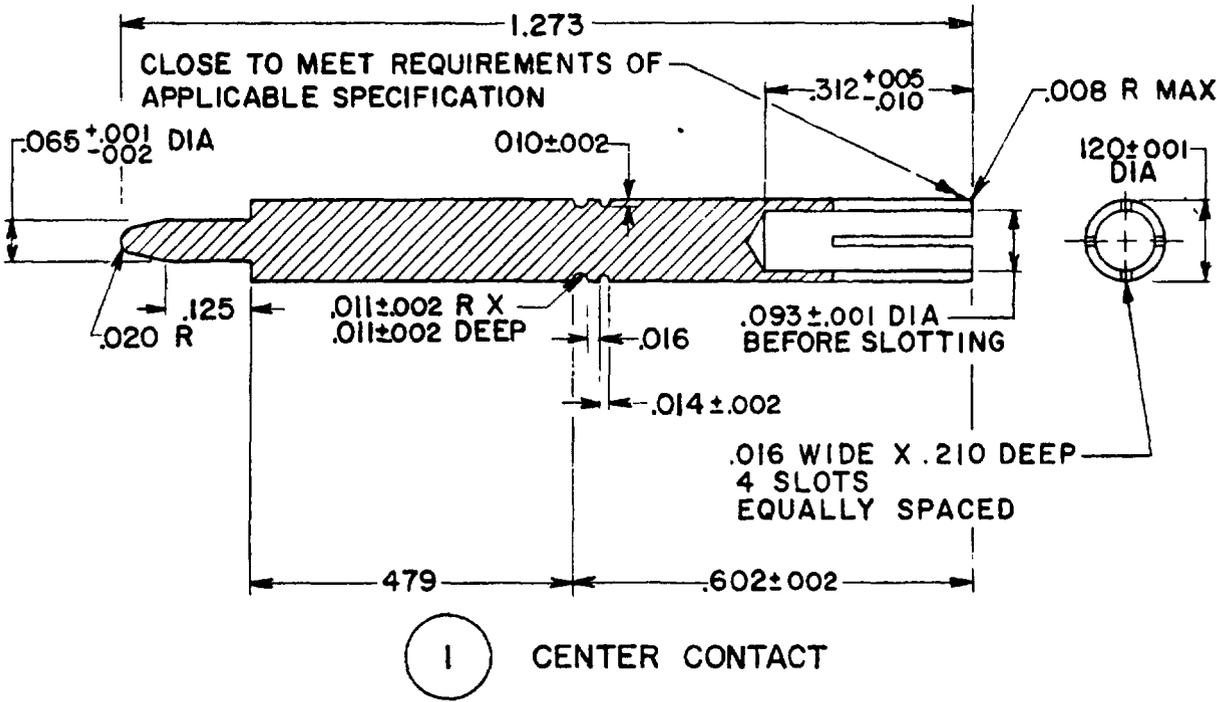


FIGURE 1.—Continued.

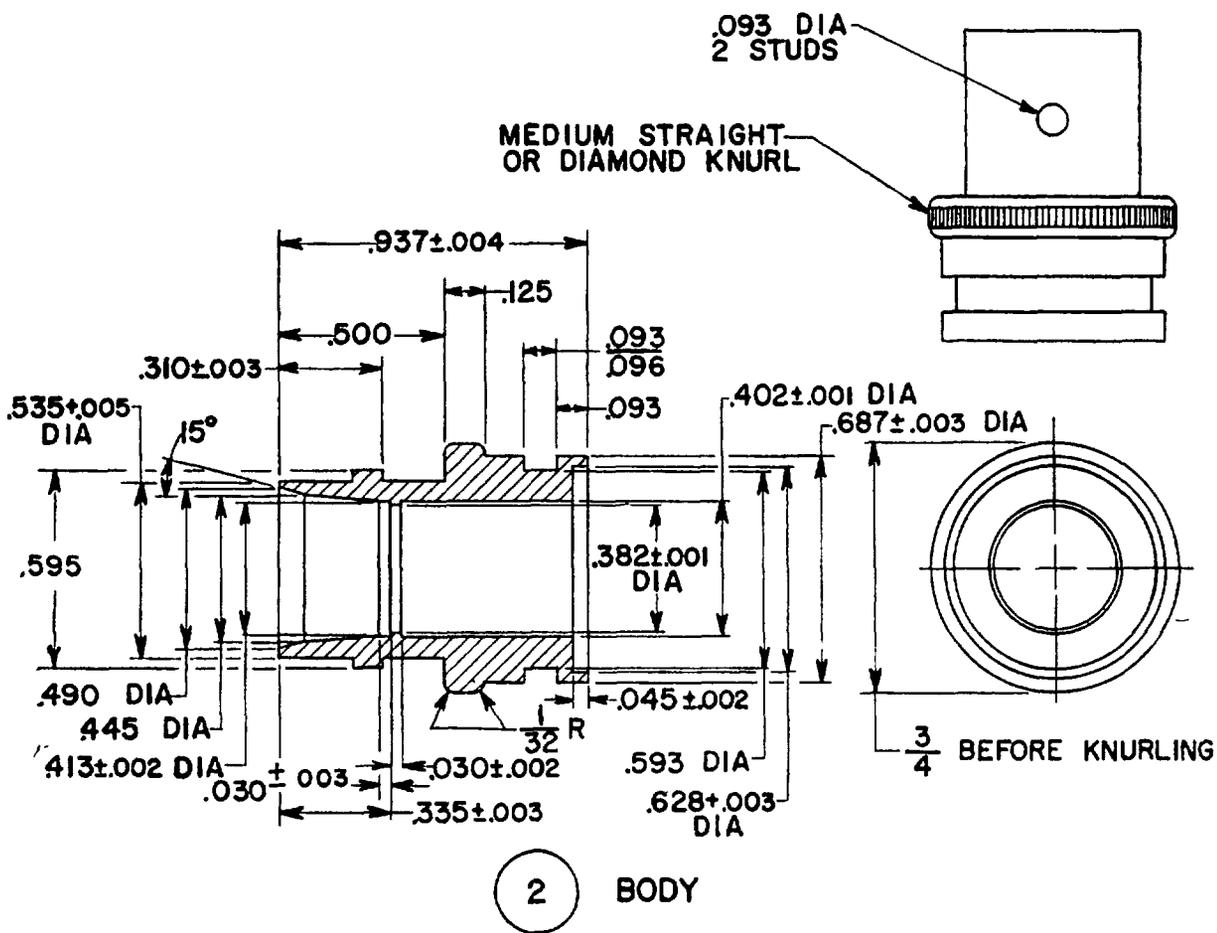
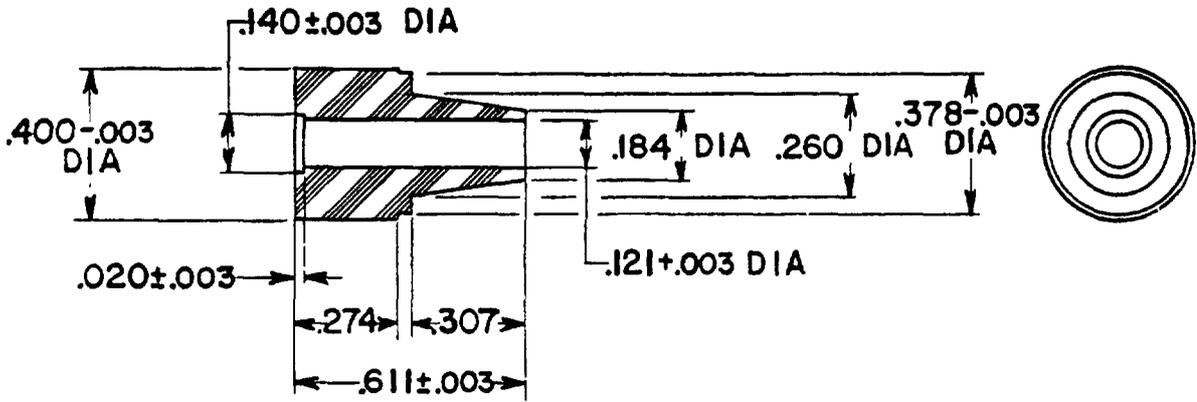
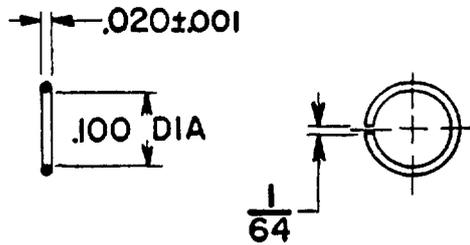


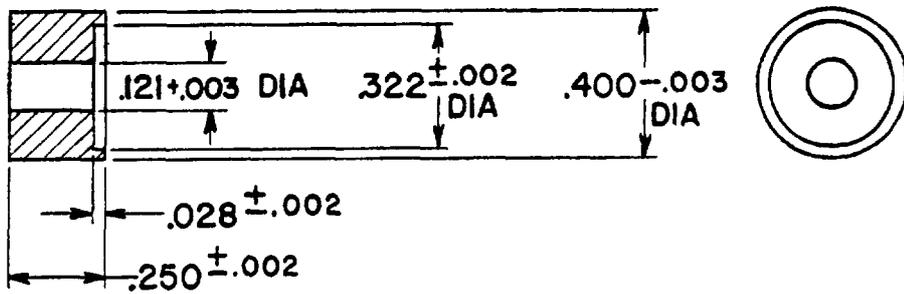
FIGURE 1.—Continued.



3 INSULATOR

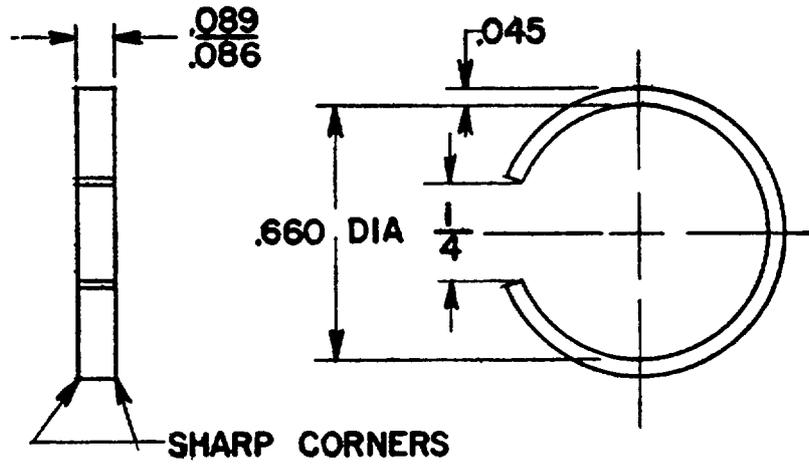


4 RING

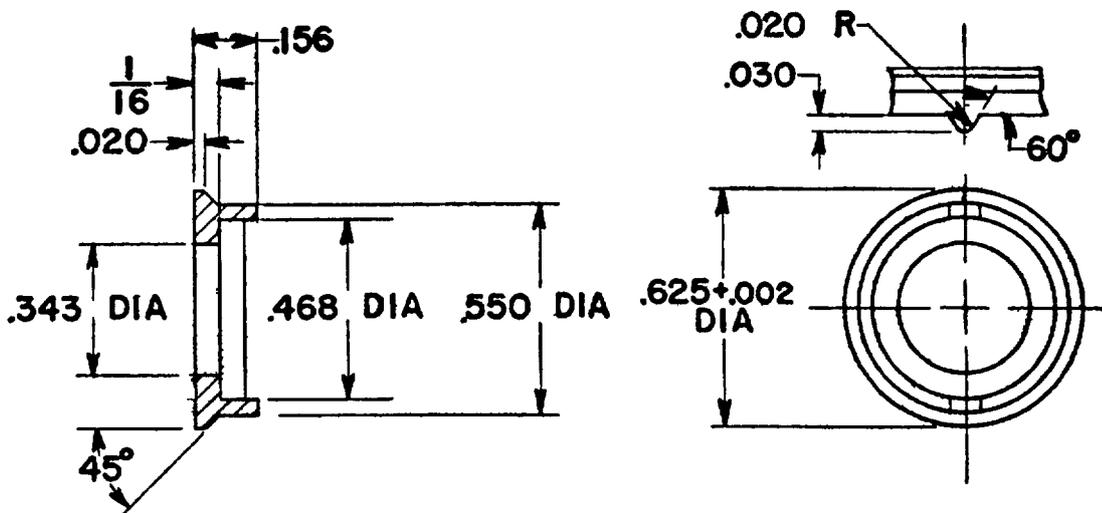


5 INSULATOR

FIGURE 1.—Continued.

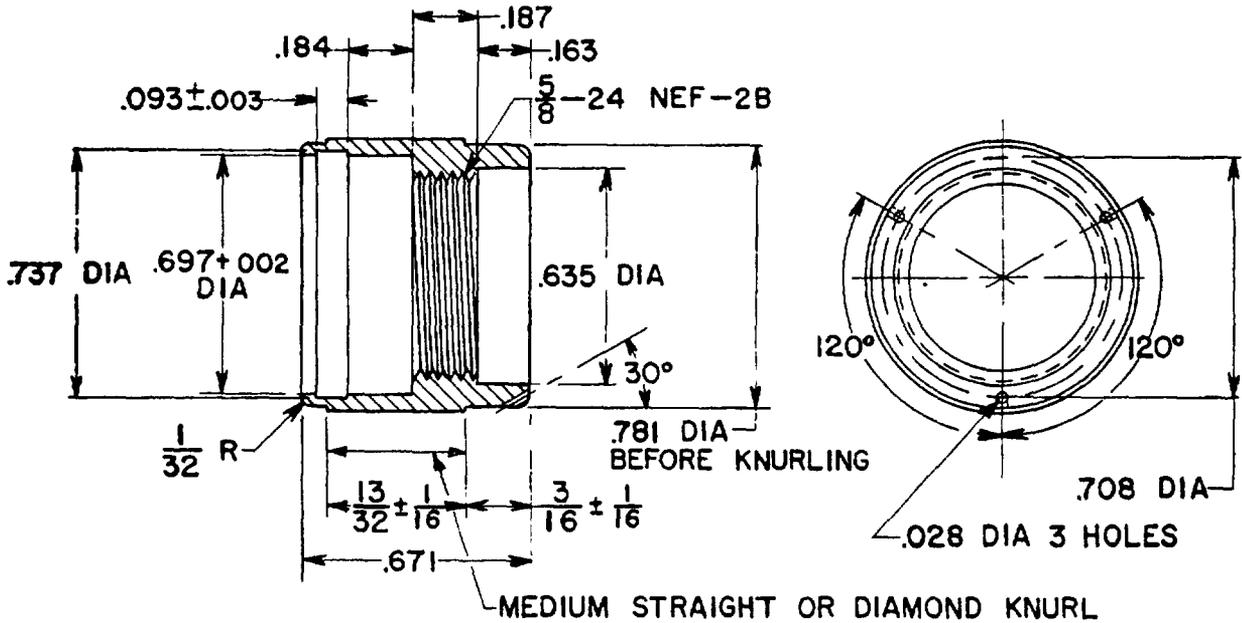


6 RING

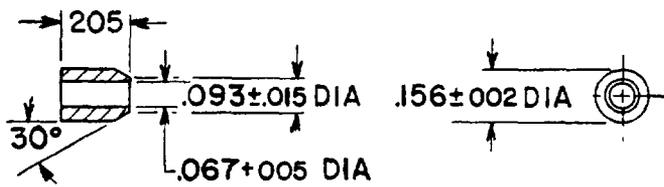


7 BODY

FIGURE 1.—Continued.



8 COUPLING NUT



9 CENTER CONTACT

FIGURE 1.—Continued

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Navy—Bureau of Ships
Air Force

Preparing activity:

Army—Signal Corps