

MIL-A-27434/22A

5 FEBRUARY 1962

SUPERSEDING

MIL-A-27434/22

28 SEPTEMBER 1960

MILITARY SPECIFICATION

ADAPTER, CONNECTOR, COAXIAL, RADIOFREQUENCY, BETWEEN SERIES, TYPE UG-966A/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-966A/U, between series (series QDS to series N), radiofrequency, coaxial connector adapter.

2. APPLICABLE DOCUMENTS

2.1 The following documents, of the issue in effect on date of invitation for bids, form a part of this specification to the extent specified herein.

REB10021 — Gasket.

REB10022 — Insulator.

REB10026 — Coupling nut.

REA10035 — Spring.

REA10042 — Ring.

REB10056 — Insulator.

REB10301 — Body.

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

SPECIFICATION

MILITARY

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

DRAWINGS

BUREAU OF SHIPS

REB10006 — Contact.

REB10007 — Contact.

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 **Gage tests for contacts.** The contact shall meet the gage tests for contacts specified in 4.2.

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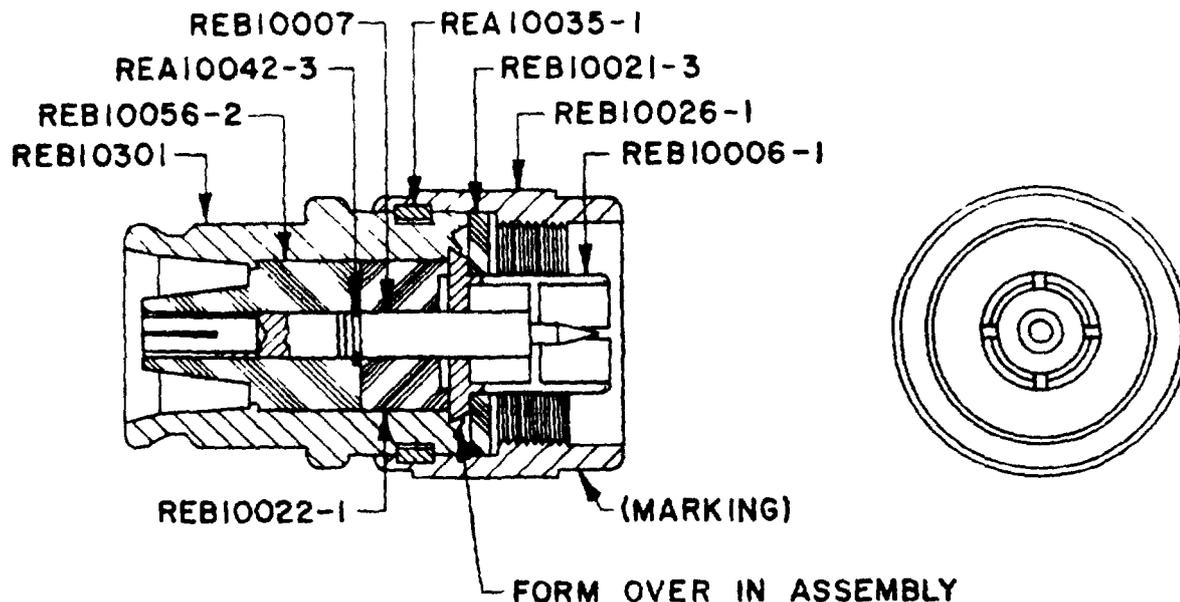


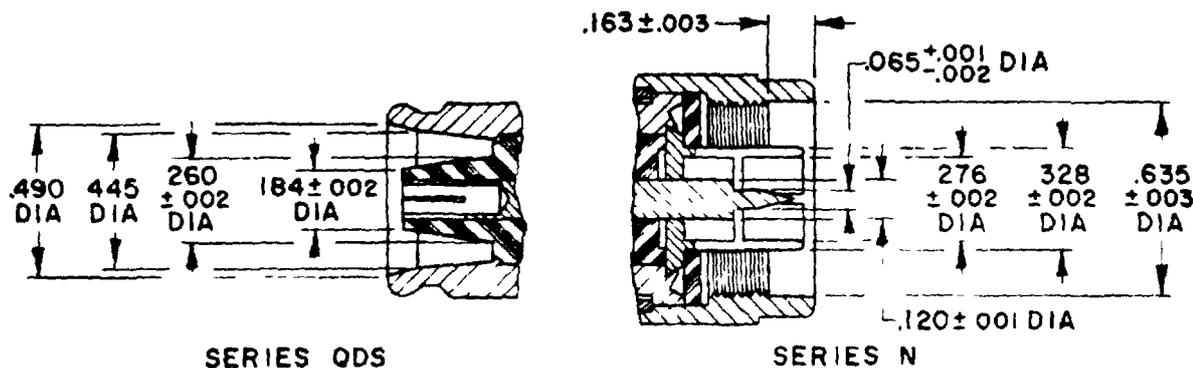
FIGURE 1. Type UG-966A/U' connector adapter.

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

4.1.1 Group B inspection. Group B inspection shall be in accordance with Specification MIL-A-27434. Mating dimensions shall be as specified on figure 2.

4.2 Gage tests for contacts (applicable only to series QDS termination) (see 3.2.1). The center contact shall be subjected to the gage tests specified in 4.2.1 prior to assembly into the connector adapter. The pins used in the performance of these tests may be tapered at their ends to facilitate insertion, but the tapered portions shall not be included in the specified dimensions. All tests shall be performed in the order shown.



- 1 All dimensions in inches
- 2 Unless otherwise specified, tolerances are ± 0.005 on decimals.

FIGURE 2 Dimensional requirements for group B inspection.

4.2.1 A pin 0.100 inch minimum in diameter shall be inserted to a depth of 0.125 inch minimum, and then removed. The contact shall then be tested as follows.

- (a) A pin 0.074 inch minimum in diameter inserted to a depth of 0.200 inch minimum shall not deflect the contact members.
- (b) A pin 0.080 inch maximum in diameter inserted to a depth of 0.125 inch minimum shall make contact with all four contact members within 0.015 inch of their tip ends.
- (c) A pin 0.093 inch minimum in diameter inserted to a depth of 0.062 inch minimum shall not cause the contact members to bow perceptibly.

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-966A/U connector adapter which was previously covered by Bureau of Ships Drawing REB49121.

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