

INCH-POUND

MIL-DTL-27434/21A

22 May 2008

SUPERSEDING

MIL-A-27434/21

28 September 1960

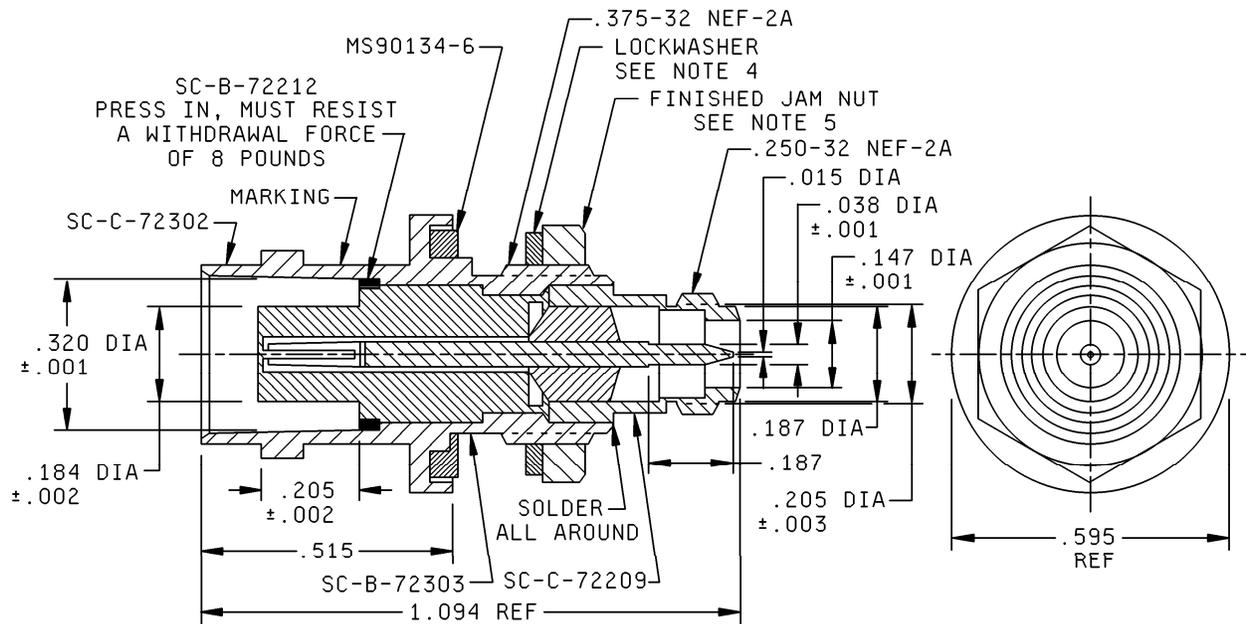
DETAIL SPECIFICATION SHEET

ADAPTER, CONNECTOR, COAXIAL, RADIOFREQUENCY,  
BETWEEN SERIES, SERIES BNC to SERIES SM  
TYPE UG-691/U

Inactive for new design after  
19 February 1982

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-27434.



Inches	mm	Inches	mm
.001	0.03	.184	4.67
.002	0.05	.205	5.21
.003	0.08	.320	8.13
.015	0.38	.515	13.08
.038	0.97	.595	15.11
.147	3.73	1.094	27.79

FIGURE 1. Type UG-691/U connector adapter.

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified dimensional tolerances are  $\pm 0.005$  inches.
4. The lockwasher shall have the following characteristics: externally toothed, phosphor bronze, silver plated, 0.398 inch maximum and 0.384 inch minimum inside diameter; 0.694 inch maximum and 0.670 inch minimum outside diameter.
5. The finished jam nut shall have the following characteristics: .375-32 UNEF-2B, brass, 0.551 inch minimum across flats, 0.093 inch thick.

FIGURE 1. Type UG-691/U connector adapter – Continued.

ENGINEERING DATA:

Impedance: 50 ohms, nominal.

Voltage rating: 100 V rms, maximum at sea level.

Temperature rating: -65° C to +165° C.

REQUIREMENTS:

Dimensions and configuration: See figure 1.

Mating characteristics: Series BNC socket contact in accordance with MIL-STD-348, and series SM pin contact interface shall be in accordance with MIL-DTL-27434 after assembly.

Corrosion: Applicable.

Vibration: Applicable.

Shock: Applicable.

Leakage: The adapter shall be subjected to a gage pressure test of 50 pounds per square inch applied at one end, and the whole adapter immersed in water at 20°C. The adapter shall remain immersed in water for at least 20 seconds.

When the adapter is under test there shall be no evidence of loss of pressure as detected by escaping air bubbles.

Part or Identifying Number (PIN): UG-691/U.

Supersession: This document supersedes drawing MS35114 (SigC).

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

MIL-DTL-27434/21A

Referenced documents. In addition to MIL-DTL-27434, this document references the following:

MIL-STD-348  
SC-C-72209  
SC-C-72302  
SC-B-72212  
SC-B-72303

CONCLUDING MATERIAL

Custodians:  
Army - CR  
Navy - EC  
Air Force - 85  
DLA - CC

Preparing activity:  
DLA - CC  
(Project 5935-2007-007)

Review activities:  
Navy - SH  
Air Force - 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 <http://assist.daps.dla.mil>.