

INCH-POUND

MIL-DTL-27434/5A

w/AMENDMENT 1

31 July 2019

SUPERSEDING

MIL-DTL-27434/5A

22 May 2008

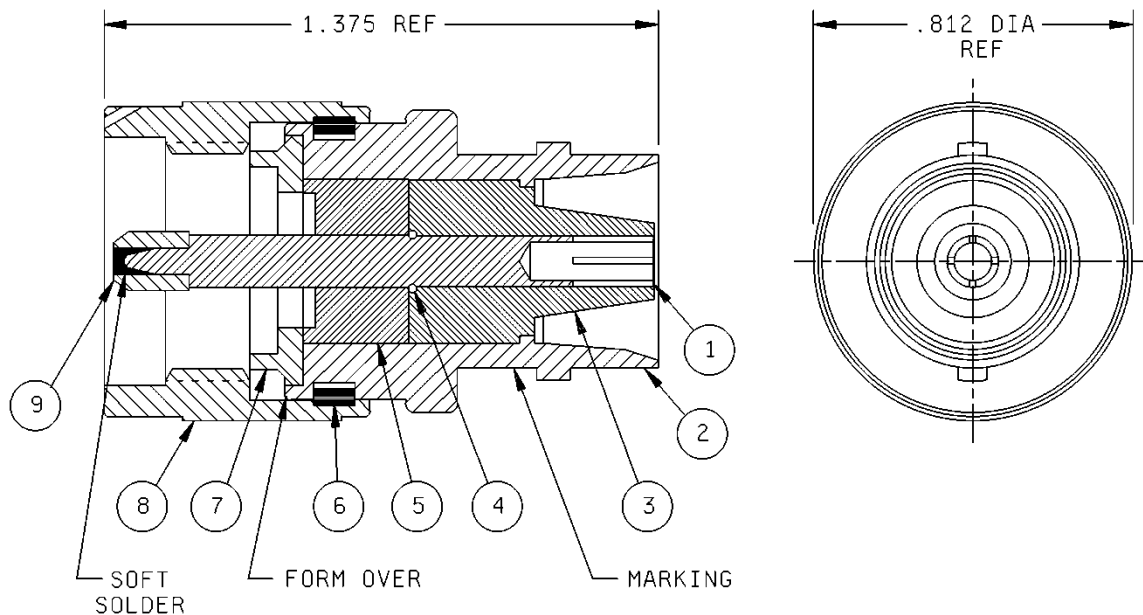
DETAIL SPECIFICATION SHEET

ADAPTER, CONNECTOR, COAXIAL, RADIOFREQUENCY,
BETWEEN SERIES, SERIES C to SERIES UHF
TYPE UG-637/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
.812	20.62
1.375	34.92

NOTES:

1. All dimensions are in inches. Metric equivalents are given for information only.

FIGURE 1. Type UG – 637/U connector adapter.



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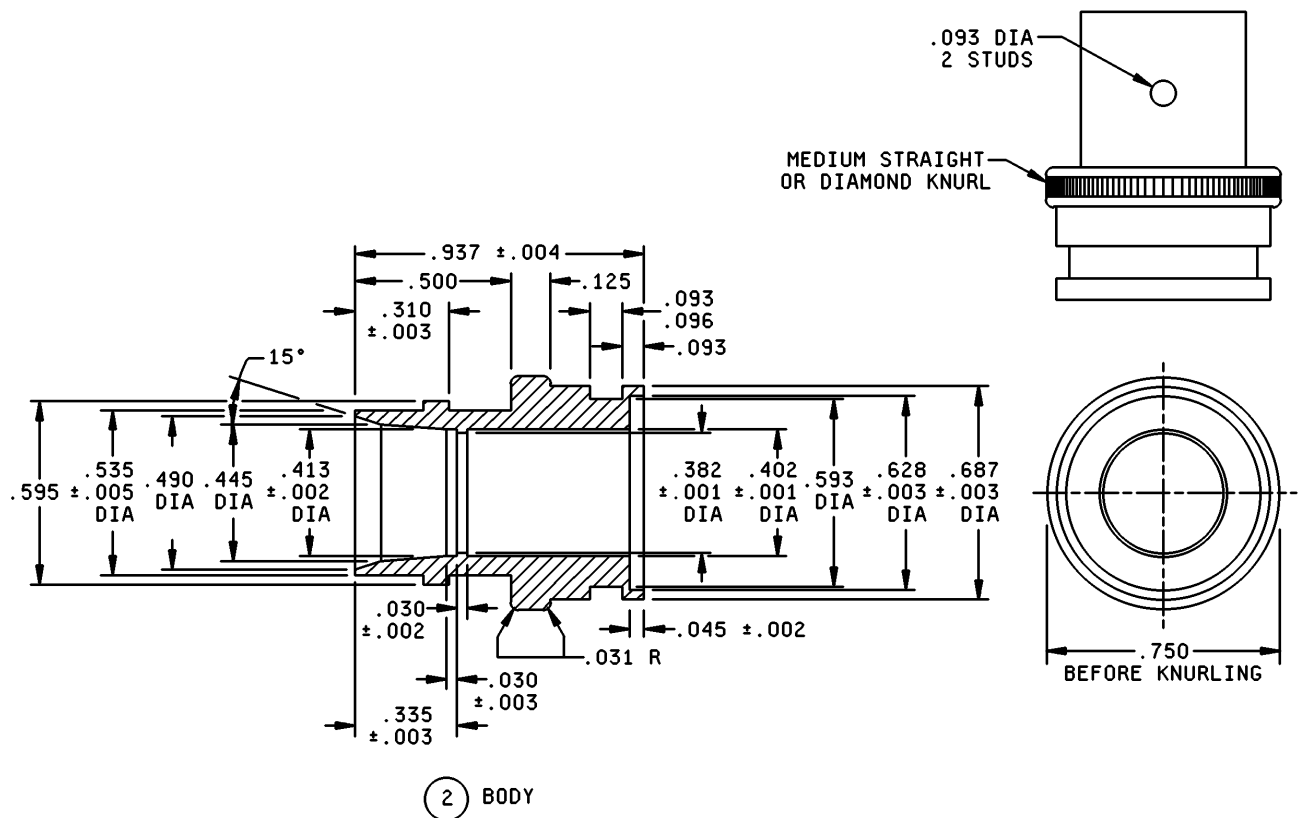
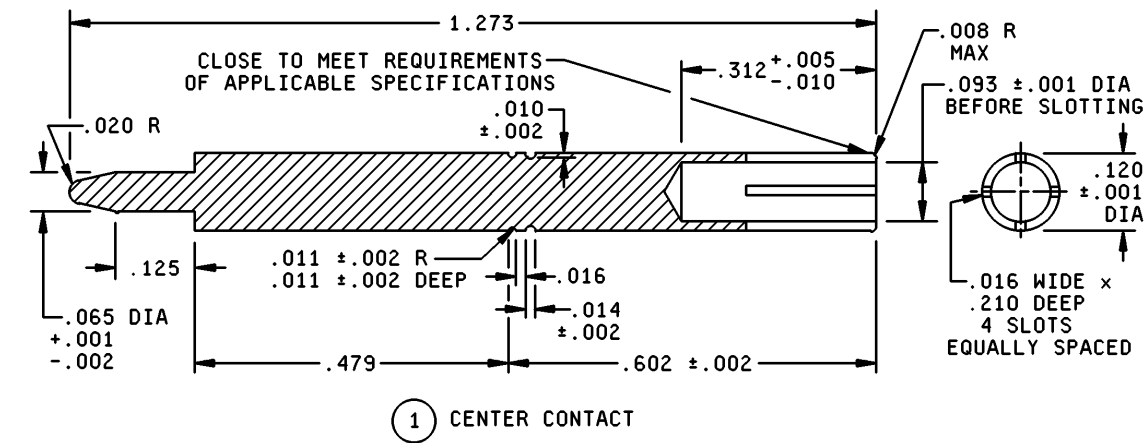


FIGURE 2. Type UG – 637/U connector adapter detail dimensions.

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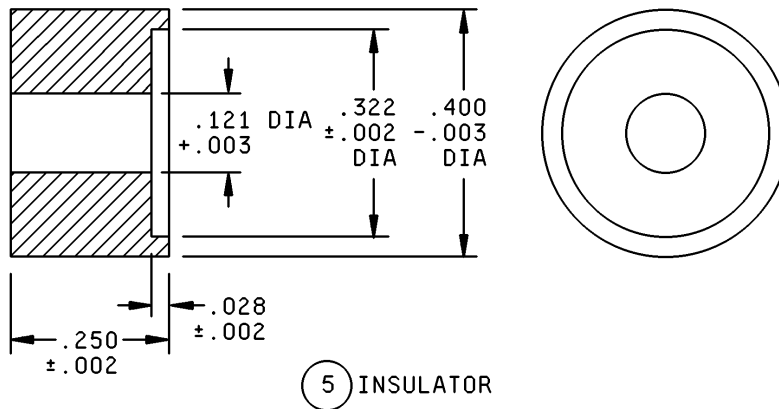
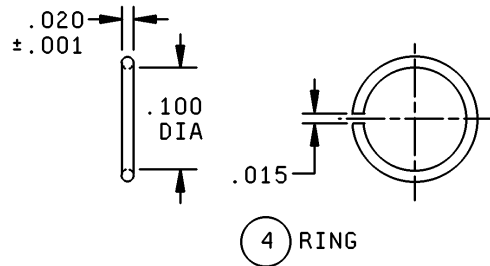
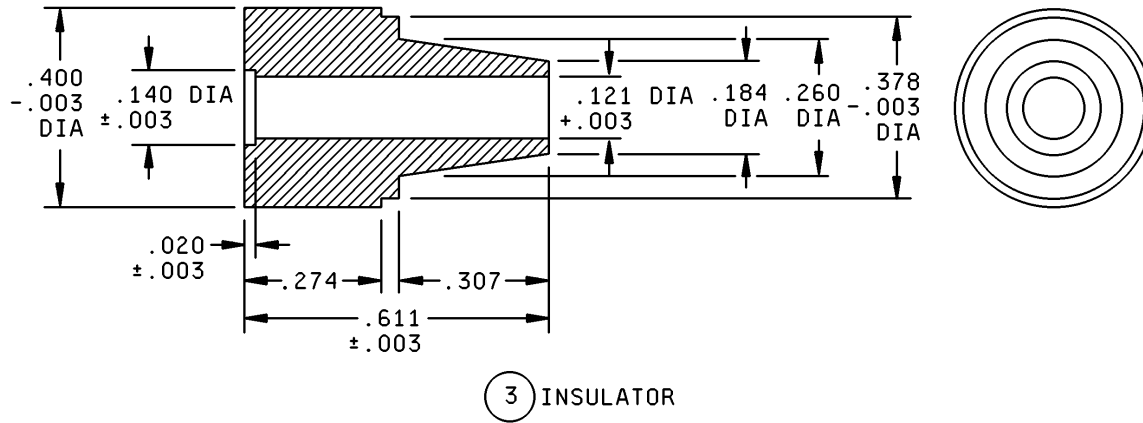


FIGURE 2. Type UG – 637/U connector adapter detail dimensions – Continued.

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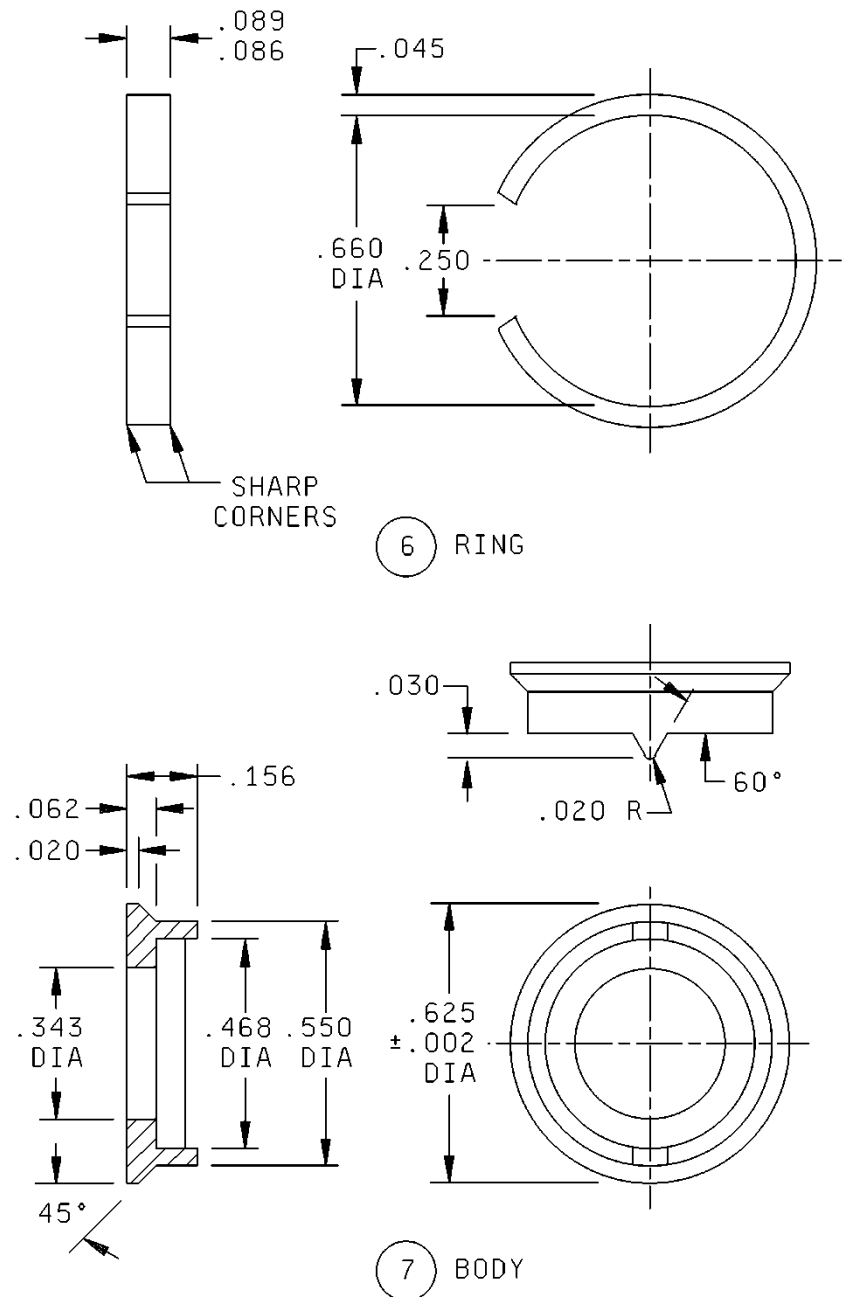
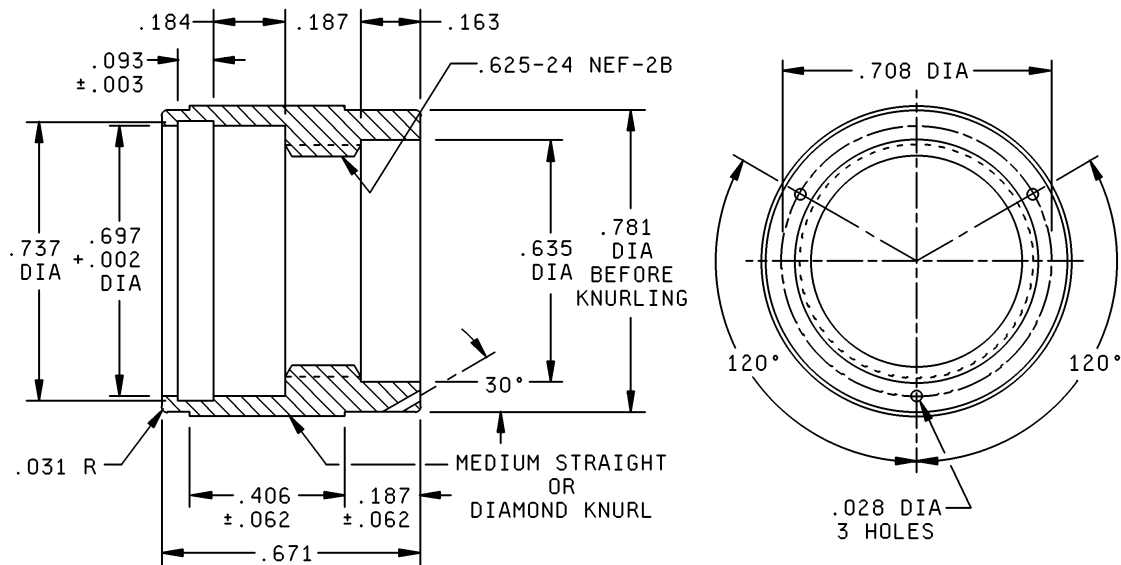
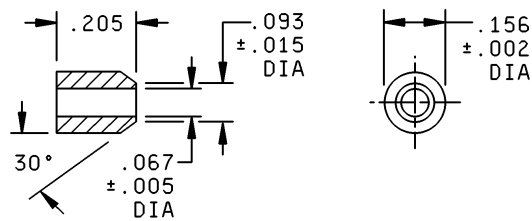


FIGURE 2. Type UG – 637/U connector adapter detail dimensions – Continued.

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(8) COUPLING NUT



(9) CENTER CONTACT

NOTES:

1. Dimensions are in inches. Metric equivalents are given for information only.

FIGURE 2. Type UG – 637/U connector adapter detail dimensions – Continued.

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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

Inches	mm	Inches	mm
.001	0.03	.307	7.80
.002	0.05	.310	7.87
.003	0.08	.312	7.92
.004	0.10	.322	8.18
.005	0.13	.335	8.51
.008	0.20	.343	8.71
.010	0.25	.378	9.60
.011	0.28	.382	9.70
.014	0.36	.400	10.16
.015	0.38	.402	10.21
.016	0.41	.413	10.49
.020	0.51	.445	11.30
.028	0.71	.468	11.89
.030	0.76	.479	12.17
.045	1.14	.490	12.45
.065	1.65	.500	12.70
.086	2.18	.550	13.97
.089	2.26	.535	13.59
.093	2.36	.593	15.06
.096	2.44	.595	15.11
.100	2.54	.602	15.29
.120	3.05	.611	15.52
.121	3.07	.625	15.88
.125	3.18	.628	15.95
.140	3.56	.635	16.13
.156	3.96	.660	16.76
.163	4.14	.671	17.04
.184	4.67	.687	17.45
.187	4.75	.697	17.70
.205	5.21	.708	17.98
.210	5.33	.737	18.72
.250	6.35	.781	19.84
.260	6.60	.937	23.80
.274	6.96	1.273	32.33

FIGURE 2. Type UG – 637/U connector adapter detail dimensions – Continued.

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ENGINEERING DATA:

Impedance: 50 ohms, nominal.

Frequency range: 0 to 300 MHz

Voltage rating: 500 V rms maximum at sea level.
125 V rms maximum, at 70,000 feet.

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

REQUIREMENTS:

Dimensions and configuration: See figure 1 and figure 2.

Mating characteristics: Series C interface shall be in accordance with MIL-STD-348 and series UHF shall be in accordance with MIL-DTL-27434 and shall meet the interface dimensions after assembly.

Dielectric withstanding voltage: MIL-STD-202-301, 1,500 V rms minimum applied instantaneously at sea level.

Corrosion: Applicable.

Vibration: Applicable.

Shock: Applicable.

Part or Identifying Number (PIN): UG-637/U.

Supersession: This document supersedes Navy drawing MS35282 (Sig C).

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-27434, this document references the following:

MIL-STD-202-301
MIL-STD-348

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CONCLUDING MATERIAL

Custodians:

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

Preparing activity:

DLA - CC

(Project 5935-2019-093)

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 <https://assist.dla.mil>.