

INCH POUND

MIL-DTL-3655/6C  
18 March 2008  
SUPERSEDING  
MIL-C-3655/6B  
11 April 1980

DETAIL SPECIFICATION SHEET

CONNECTOR, RECEPTACLE, ELECTRICAL, CLASS II  
(COAXIAL, SERIES TWIN) TYPE UG-1057/U

**Inactive for new design  
after 11 April 1980**

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-3655.

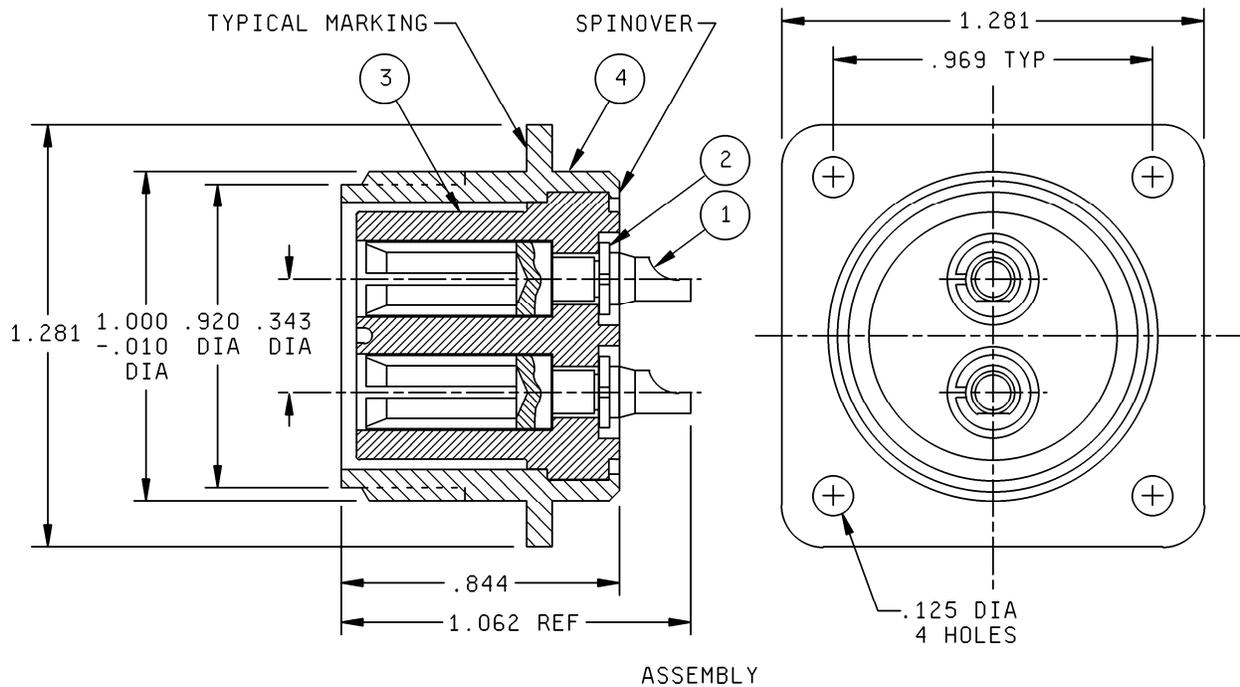


FIGURE 1. Type UG-1057/U, connector, electrical, adapter.

MIL-DTL-3655/6C

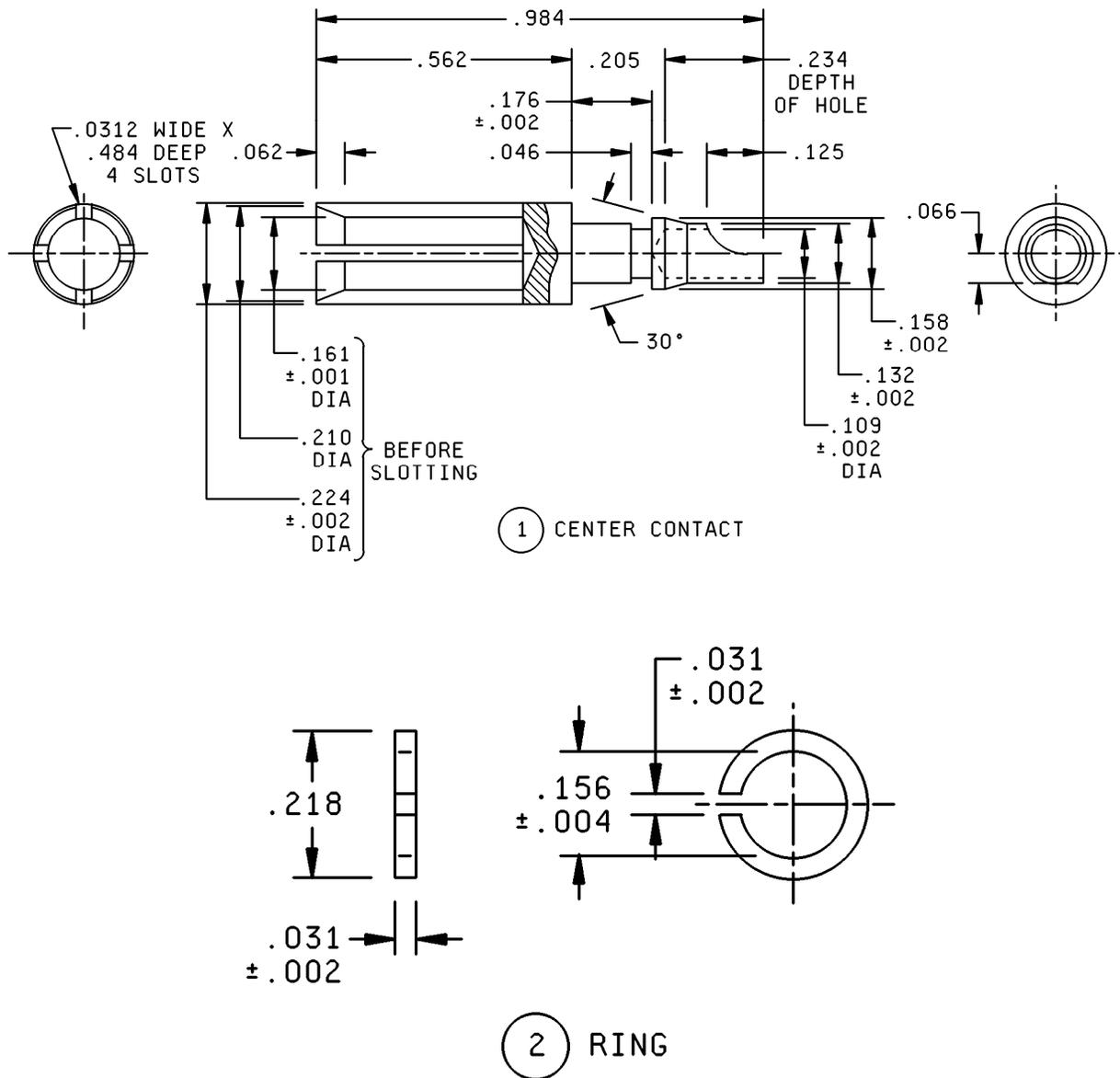
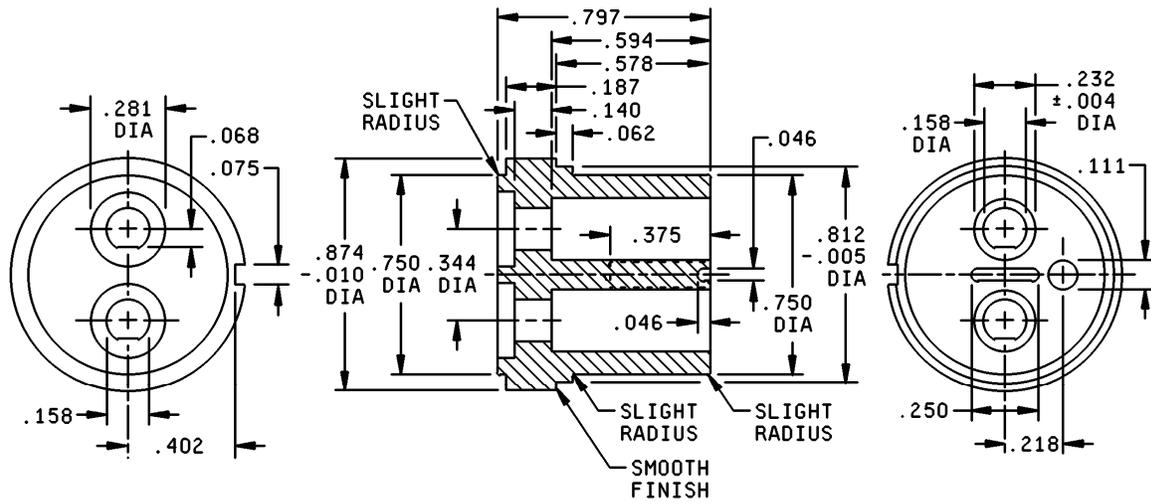
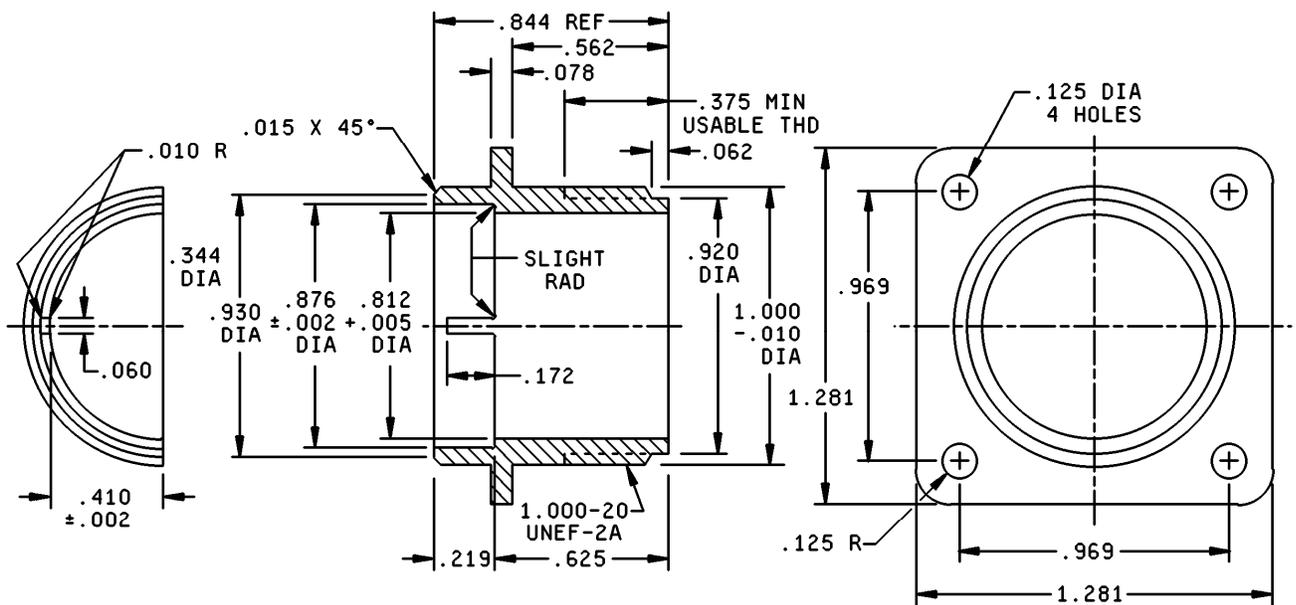


FIGURE 1. Type UG-1057/U, connector, electrical, adapter – Continued.

MIL-DTL-3655/6C



3 INSULATOR



4 BODY

FIGURE 1. Type UG-1057/U, connector, electrical, adapter – Continued.

MIL-DTL-3655/6C

Item	Description	Material	Quantity
1	Center contact	Beryllium copper	2
2	Ring	Phosphor bronze	2
3	Insulator	Plastic	1
4	Body	Brass	1

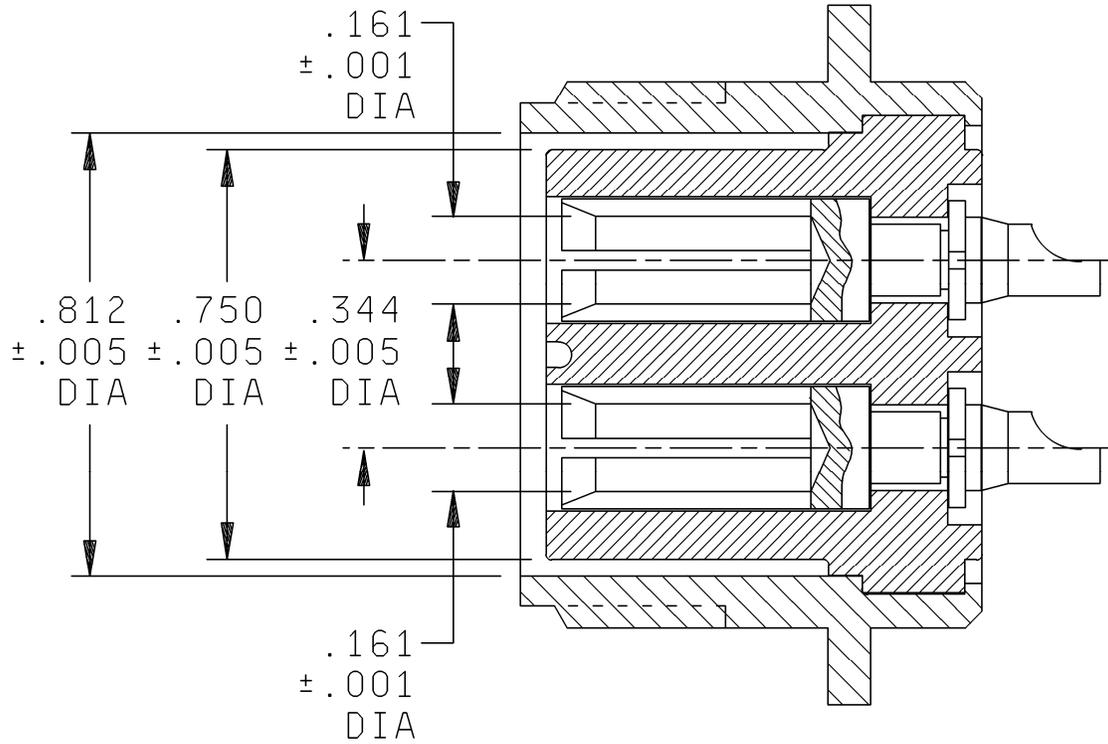
Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
.001	0.03	.068	1.73	.176	4.47	.344	8.74	.844	21.44
.002	0.05	.075	1.91	.187	4.75	.375	9.53	.874	22.20
.004	0.10	.078	1.98	.205	5.21	.402	10.21	.876	22.25
.005	0.13	.109	2.77	.210	5.33	.410	10.41	.920	23.37
.010	0.25	.111	2.82	.218	5.54	.484	12.29	.930	23.62
.015	0.38	.125	3.18	.219	5.56	.562	14.27	.969	24.61
.031	0.79	.132	3.35	.224	5.69	.578	14.68	.984	24.99
.0312	0.792	.140	3.56	.232	5.89	.594	15.09	1.000	25.40
.046	1.17	.156	3.96	.234	5.94	.625	15.88	1.062	26.97
.060	1.52	.158	4.01	.250	6.35	.750	19.05	1.281	32.54
.062	1.57	.161	4.09	.281	7.14	.797	20.24		
.066	1.68	.172	4.37	.343	8.71	.812	20.62		

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, the tolerance is  $\pm 005$  (0.13 mm).

FIGURE 1. Type UG-1057/U, connector, electrical, adapter – Continued.

MIL-DTL-3655/6C



Inches	mm	Inches	mm
.001	0.03	.344	0.74
.005	0.13	.750	19.05
.161	4.09	.812	20.62

NOTES:

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

FIGURE 2. Visual mating requirements.

MIL-DTL-3655/6C

ENGINEERING DATA

Nominal impedance: 95 ohms.

Frequency range: DC to 500 MHz, maximum.

Voltage rating: 500 V peak, maximum at sea level.

Mating connector: M3655/7-1058.

Intended use: Type M3655/7-1057 electrical connector is designed for use with radio frequency cable M17/56-RG130 and shield M3655/10-1556.

REQUIREMENTS:

Design and construction: See figures 1 and 2.

Center contact shall be plated in accordance with MIL-DTL-3655. All other metal parts shall be silver plated to a minimum thickness of .0002 inch in accordance with ASTM-B700.

Force to engage/disengage:

Torque: Not applicable.

Longitudinal force: Not applicable.

Coupling proof torque: Not applicable.

Mating characteristics (see figures 1 and 2 for dimensions):

Center contact:

Oversize test pin: .159 inch diameter, minimum

Test pin finish: 16 microinches.

Insertion depth: .250 inch, minimum.

Number of insertions: One.

Insertion force test:

Steel test pin diameter: .157 inch, minimum.

Test pin finish: 16 microinches.

Insertion depth: .125 inch, minimum.

Insertion force: 4 pounds, maximum.

Withdrawal force test:

Steel test pin diameter: .155 inch, maximum.

Test pin finish: 16 microinches.

Insertion depth: .125 inch, minimum.

Withdrawal force: 9 ounces, minimum.

MIL-DTL-3655/6C

Permeability: Applicable.

Hermetic seal: Not applicable.

Leakage: Not applicable.

Insulation resistance:  $5 \times 10^9$  ohms, minimum.

Contact insulator captivation: Not applicable.

Salt spray (corrosion): Applicable.

Connector durability: Applicable.

Contact resistance (milliohms, maximum):

	<u>Initial</u>	<u>After environment</u>
Inner conductor contacts:	2.67	3.80
Outer conductor contacts:	.38	Not applicable
Braid to body	.20	Not applicable

Dielectric withstanding voltage: 1,500 V rms, minimum, at sea level.

Vibration, high frequency: Applicable.

Shock (specified pulse): Not applicable.

Temperature cycling: Applicable.

Humidity: Applicable, but no measurement shall be made at high humidity. Insulation resistance shall be at least  $2 \times 10^8$  ohms within 5 minutes after removal from the humidity chamber.

Cable retention force: Not applicable.

Coupling nut retention: Applicable.

Part or Identifying Number (PIN): M3655/6-1057.

First article shall apply as follows: First article test inspection shall be performed in accordance with the requirements outlined in the latest revision of MIL-DTL-3655.

MIL-DTL-3655/6C

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.

Referenced documents. In addition to MIL-DTL-3655, this document references the following:

ASTM-B700

CONCLUDING MATERIAL

Custodians:

Army - CR  
Navy - EC  
Air Force – 11  
DLA – CC

Preparing activity:

DLA - CC

(Project 5935-2007-019)

Review activities:

Army – AT, AV, MI  
Navy – AS, MC, OS, SH  
Air Force - 19

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>.