

INCH POUND

MIL-DTL-3655/8C
18 March 2008
SUPERSEDING
MIL-C-3655/8B
11 April 1980

DETAIL SPECIFICATION SHEET

CONNECTOR, ADAPTER, ELECTRICAL, CLASS II
(COAXIAL, SERIES TWIN) TYPE UG-1059/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.

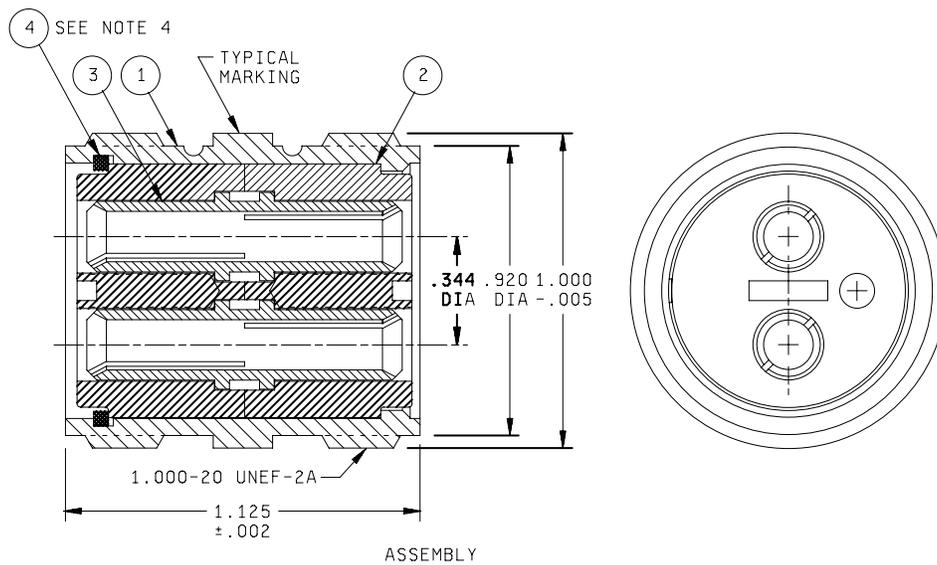
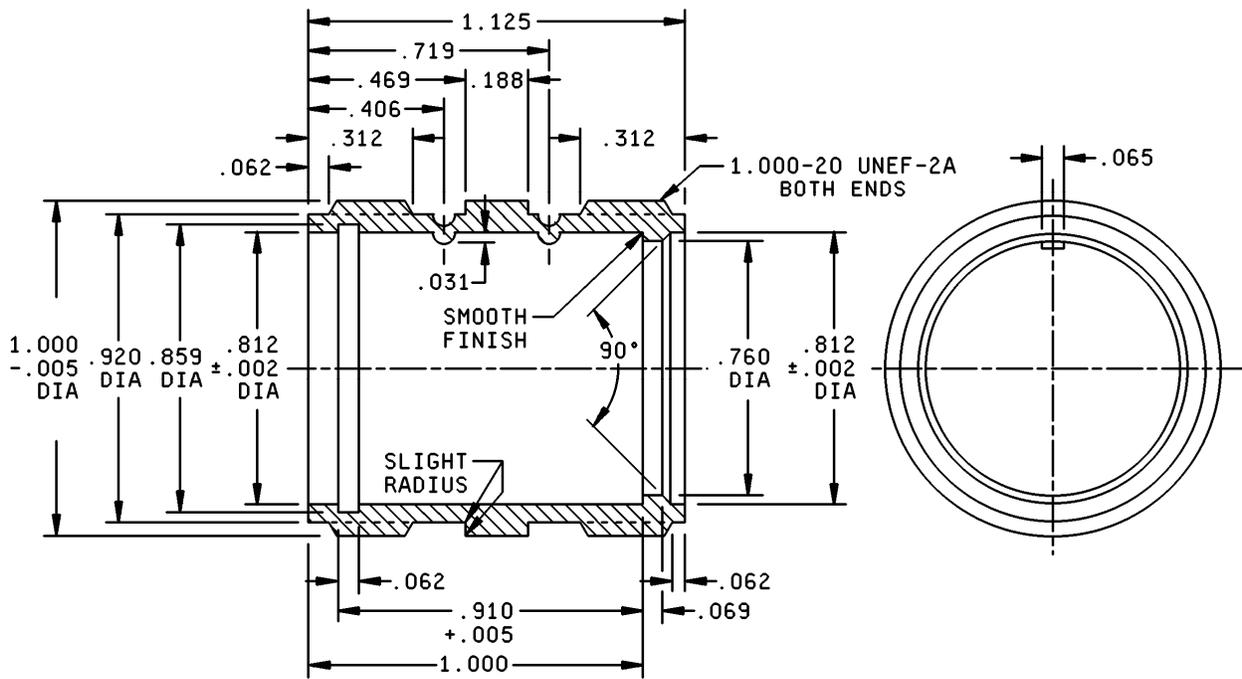
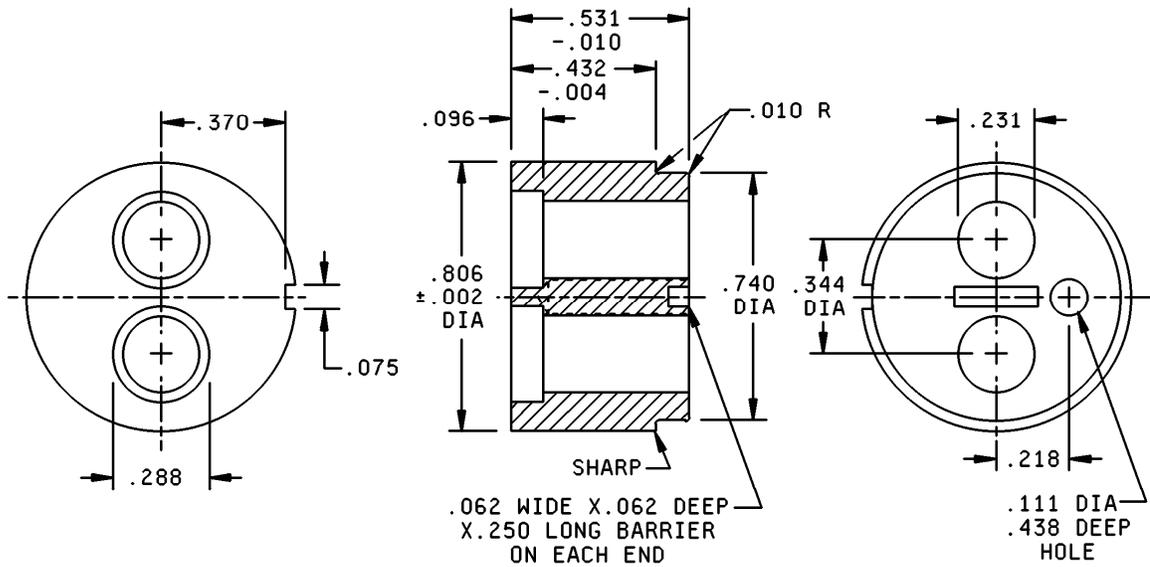


FIGURE 1. Type UG-1057/U, connector, electrical, adapter.

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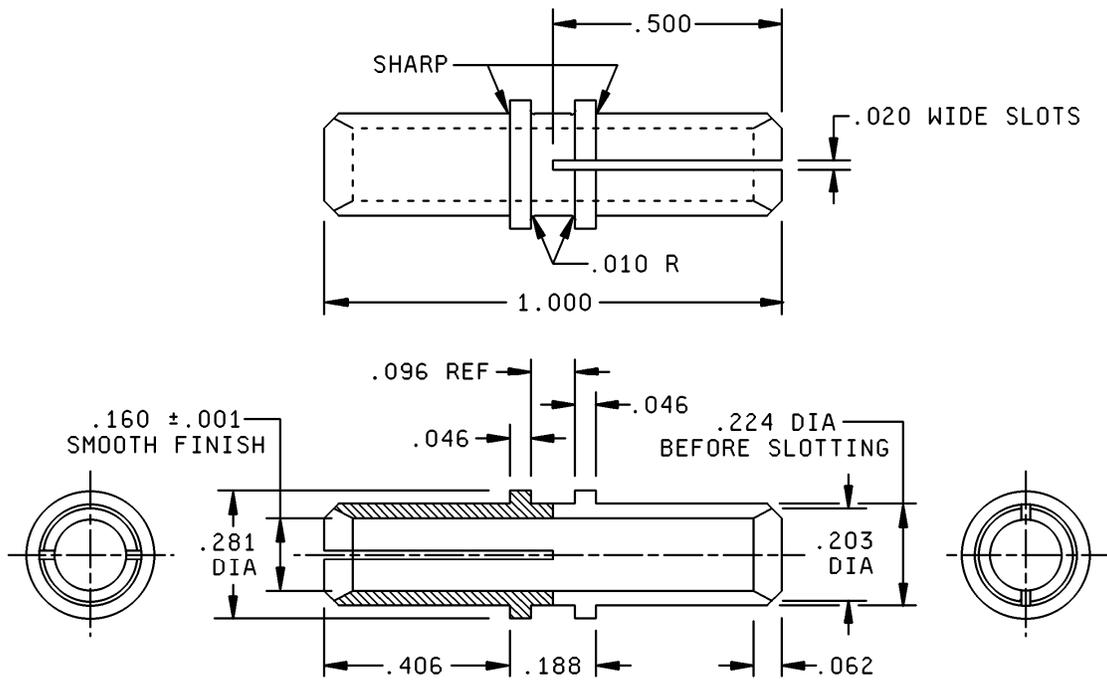
① BODY



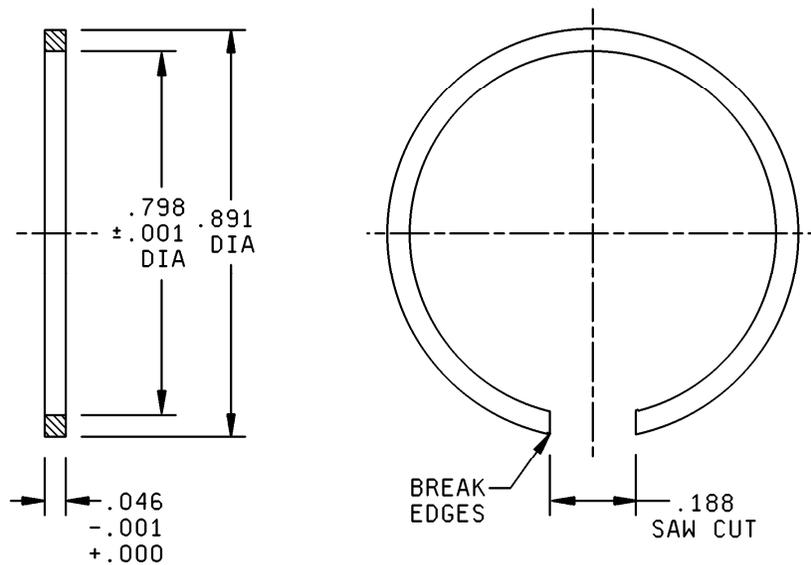
② INSULATOR

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

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③ CENTER CONTACT



④ SPRING

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

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

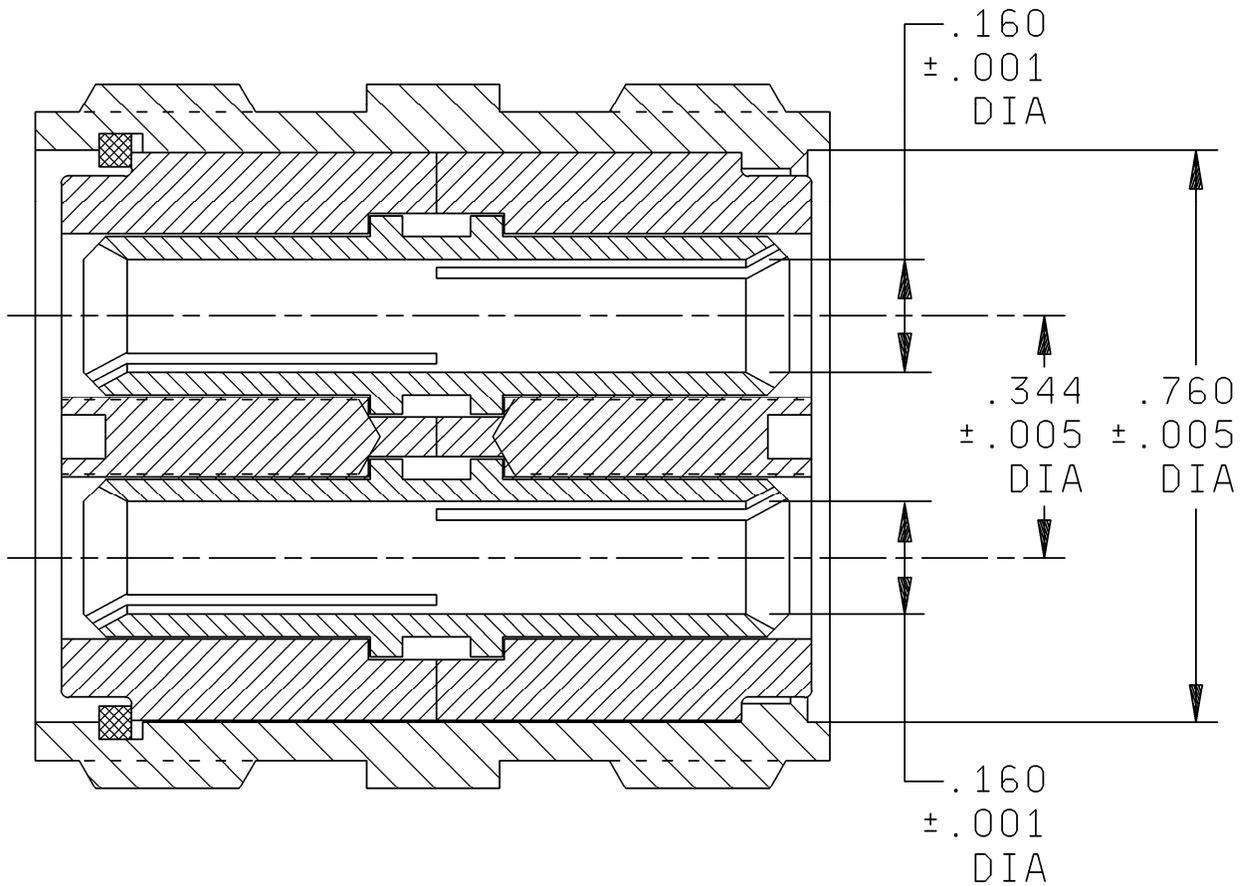
Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
.001	0.03	.065	1.65	.224	5.69	.432	10.97	.812	20.62
.002	0.05	.069	1.75	.231	5.87	.469	11.91	.859	21.82
.004	0.10	.075	1.91	.250	6.35	.500	12.70	.891	22.63
.005	0.13	.096	2.44	.281	7.14	.531	13.49	.910	23.11
.010	0.25	.111	2.82	.288	7.32	.719	18.26	.920	23.37
.020	0.51	.160	4.06	.312	7.92	.740	18.80	1.000	25.40
.031	0.79	.188	4.78	.344	8.74	.760	19.30	1.125	28.58
.046	1.17	.203	5.16	.370	9.40	.798	20.27		
.062	1.57	.218	5.54	.406	10.31	.806	20.47		

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, the tolerance is ± 005 (0.13 mm).
4. Item 4 to be assembled with small amount of Dow-Corning compound No. 4, or equal.
5. Polarizing key position on one end must be located 180° from polarizing key on opposite end.

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

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Inches	mm	Inches	mm
.001	0.03	.344	8.74
.005	0.13	.760	19.30
.160	4.06		

NOTES:

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

FIGURE 2. Visual mating requirements.

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ENGINEERING DATA

Nominal impedance: 95 ohms.

Frequency range: DC to 500 MHz, maximum.

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

Mating connector: M3655/9-1060.

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.

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Permeability: Applicable.

Hermetic seal: Not applicable.

Leakage: Not applicable.

Insulation resistance: 5×10^9 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	3.50
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 2×10^8 ohms within 5 minutes after removal from the humidity chamber.

Cable retention force: Not applicable.

Coupling nut retention: Not applicable.

Part or Identifying Number (PIN): M3655/8-1059.

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.

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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 5935-2007-020)

Review activities:

Army – AT, AV, MI

Navy – AS, MC, OS, SH

Air Force - 19, 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>.