

INCH POUND

MIL-DTL-3655/9E
18 March 2008
SUPERSEDING
MIL-C-3655/9D
11 April 1980

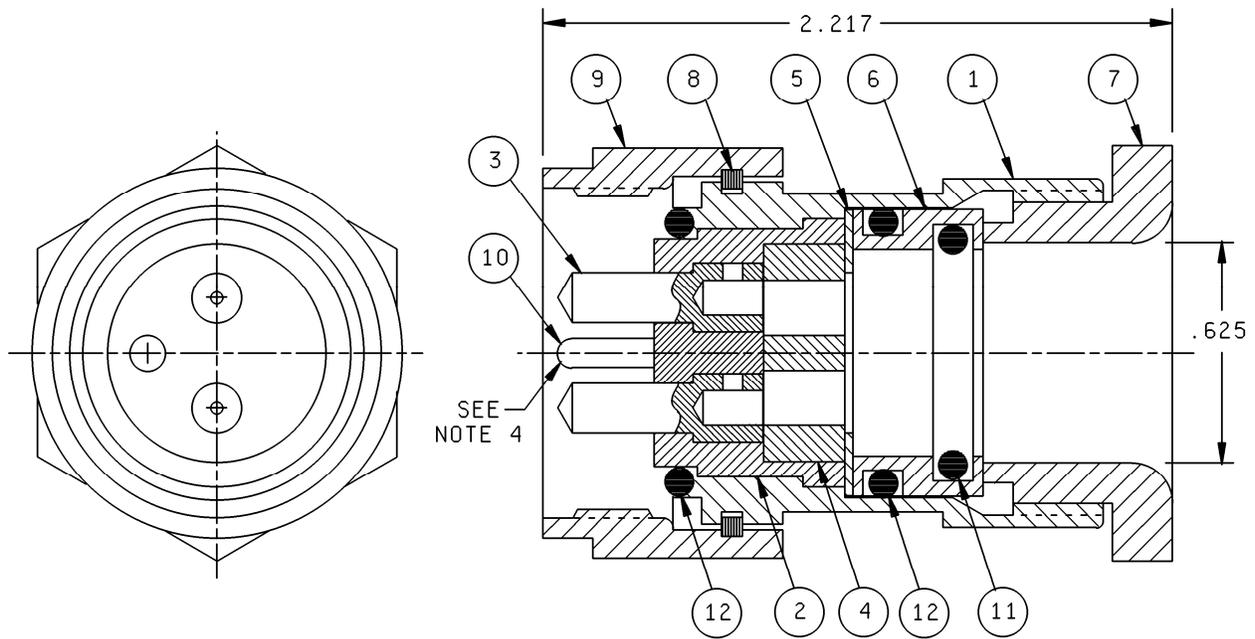
DETAIL SPECIFICATION SHEET

CONNECTOR, PLUG, ELECTRICAL, CLASS I
(COAXIAL, SERIES TWIN) TYPE UG-1060A/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.

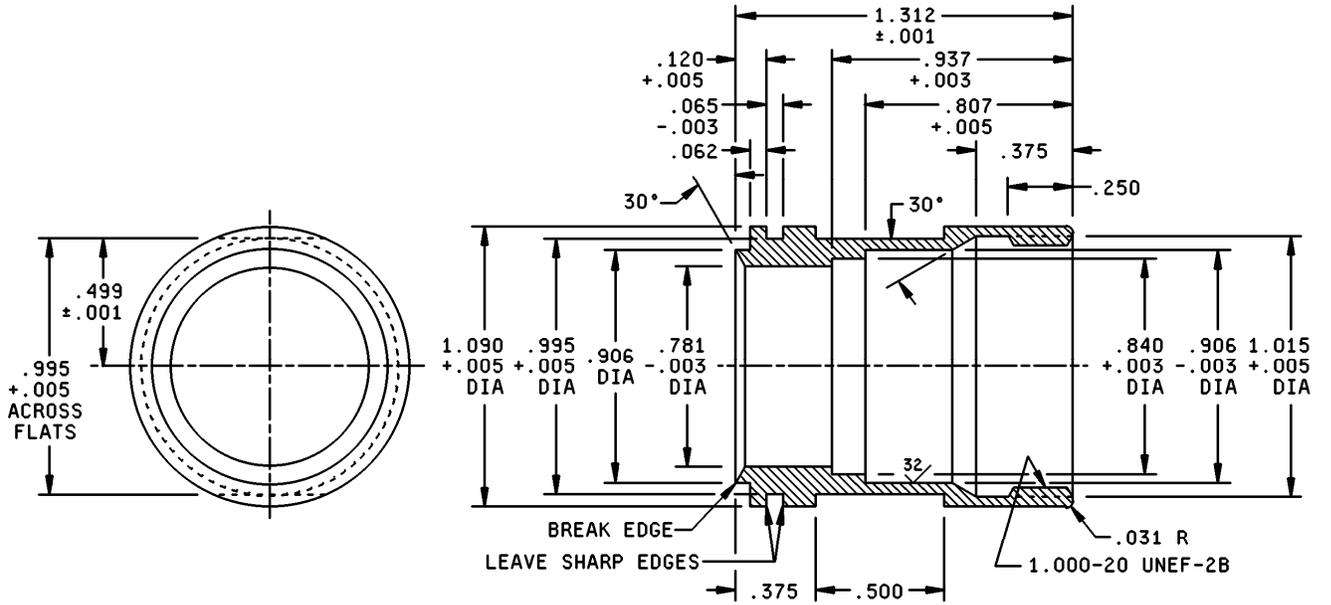
The requirements for acquiring the product described herein
shall consist of this specification sheet and MIL-DTL-3655.



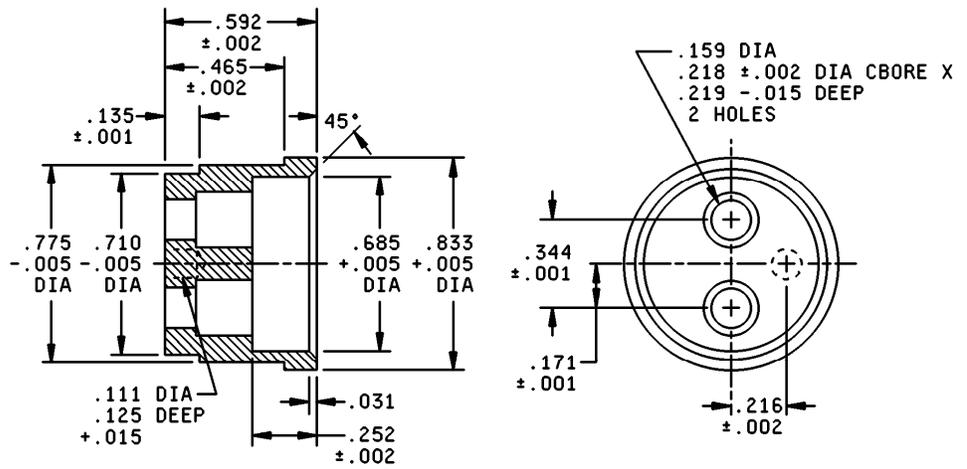
NOTES:

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-1060A/U, connector, plug, electrical.



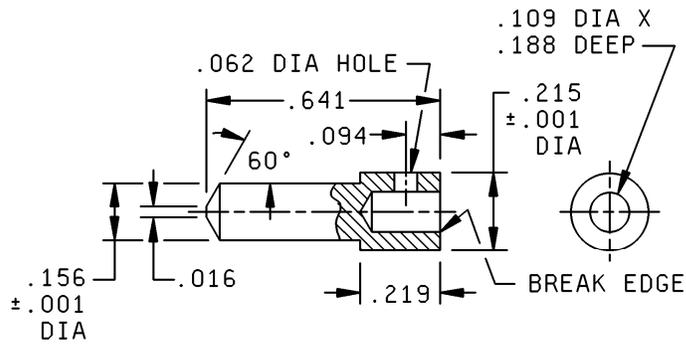
① BODY



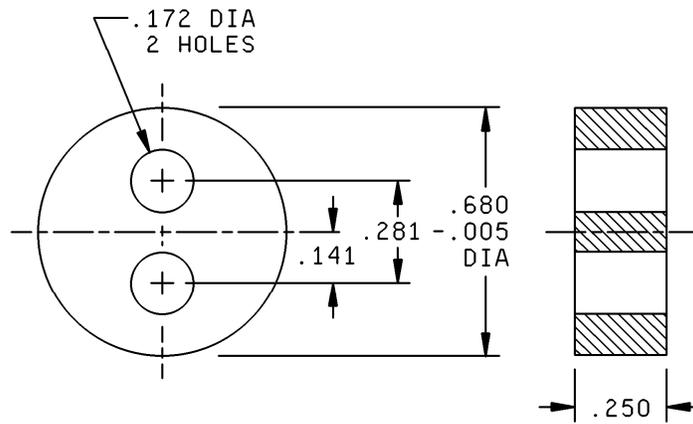
② INSULATOR

FIGURE 1. Type UG-1060A/U, connector, plug, electrical – Continued.

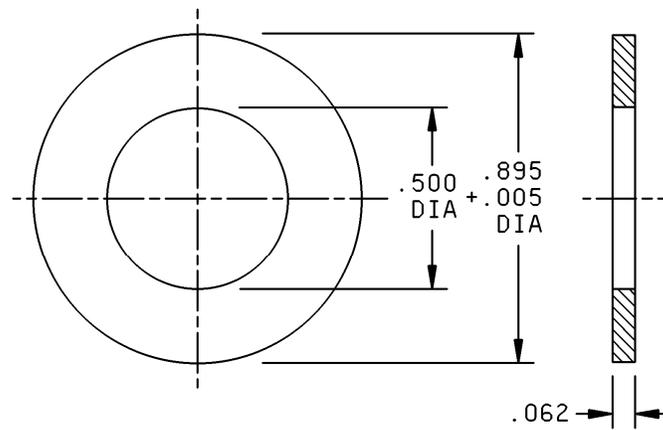
MIL-DTL-3655/9E



③ CENTER CONTACT

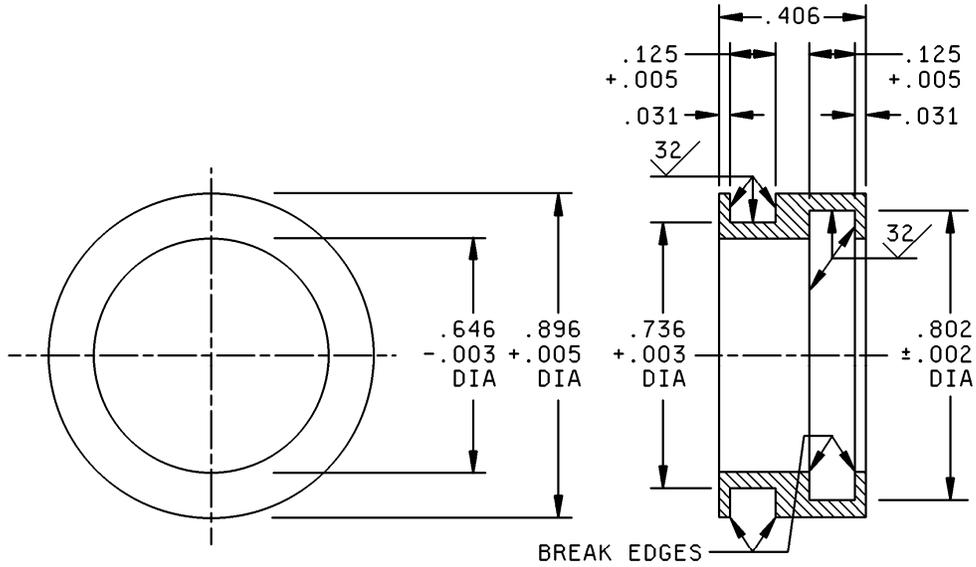


④ INSULATOR

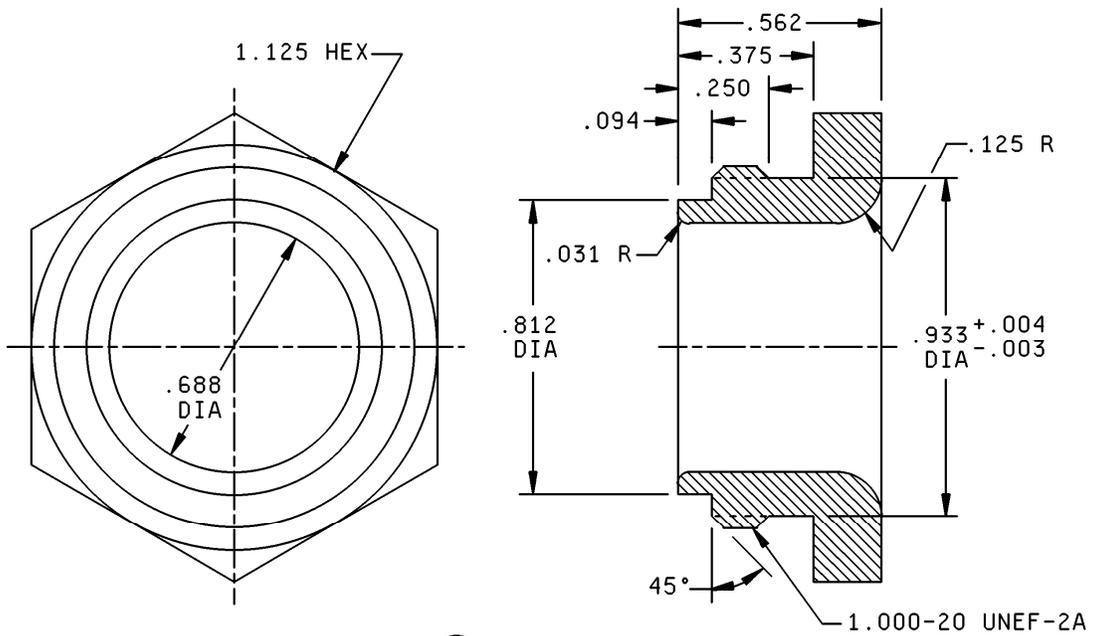


⑤ WASHER

FIGURE 1. Type UG-1060A/U, connector, plug, electrical – Continued.

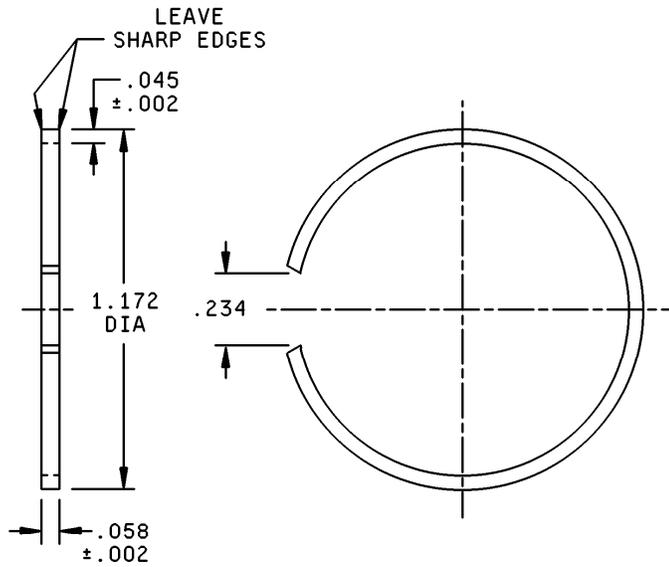


⑥ O-RING ADAPTER

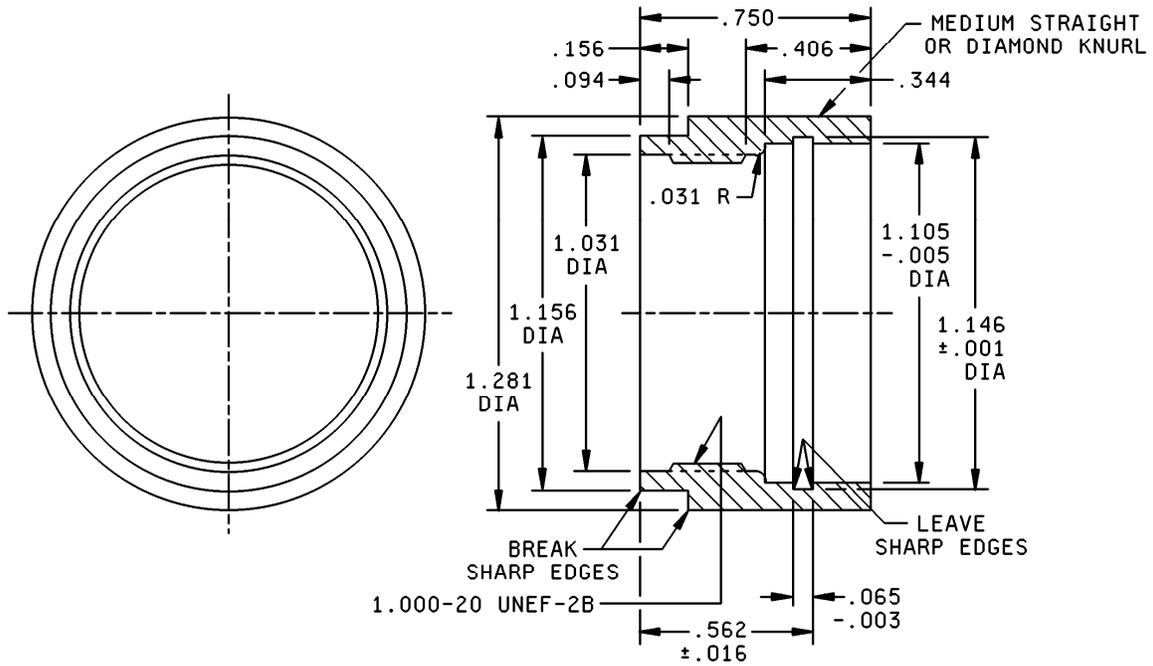


⑦ CABLE CLAMP

FIGURE 1. Type UG-1060A/U, connector, plug, electrical – Continued.



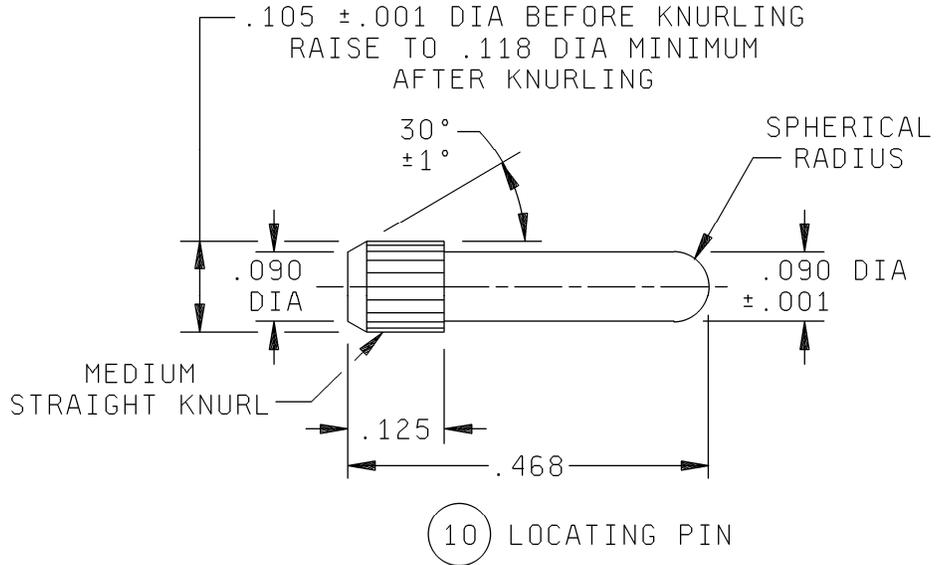
8 RETAINING RING



9 COUPLING NUT

FIGURE 1. Type UG-1060A/U, connector, plug, electrical – Continued.

MIL-DTL-3655/9E



Item	Description	Material	Quantity
1	Body	Brass	1
2	Insulator	Polytetrafluoroethylene	1
3	Center Contact	Brass	2
4	Insulator	Polytetrafluoroethylene	1
5	Washer	Brass	1
6	O-ring adapter	Brass	1
7	Cable clamp	Brass	1
8	Retaining ring	Phosphor bronze	1
9	Coupling nut	Brass	1
10	Locating pin	Brass	1
11	O-ring	(see SAE-AS28775) MS28775-12	1
12	O-ring	(see SAE-AS28775) MS28775-13	2

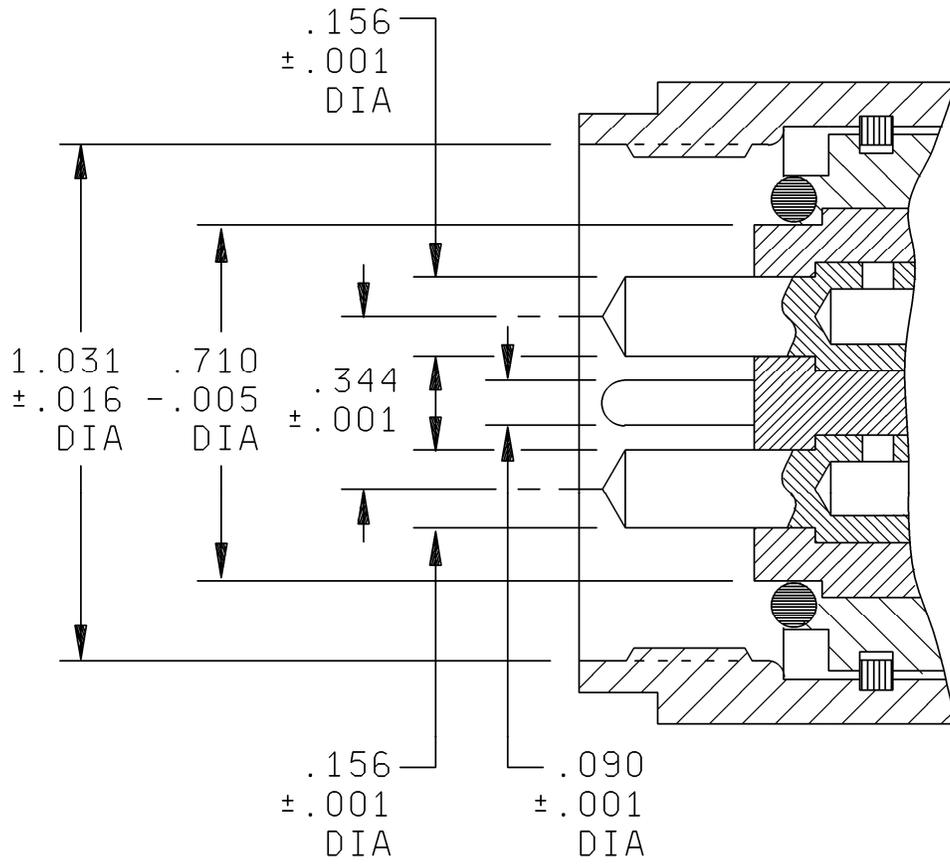
FIGURE 1. Type UG-1060A/U, connector, plug, electrical – Continued.

MIL-DTL-3655/9E

Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
.001	0.03	.111	2.82	.250	6.35	.680	17.27	.933	23.70
.002	0.05	.118	3.00	.252	6.40	.685	17.40	.937	23.80
.003	0.08	.120	3.05	.281	7.14	.688	17.48	.995	25.27
.004	0.10	.125	3.18	.312	7.92	.710	18.03	1.000	25.40
.005	0.13	.135	3.43	.344	8.74	.736	18.69	1.015	25.78
.015	0.38	.141	3.58	.375	9.53	.750	19.05	1.031	26.19
.016	0.41	.156	3.96	.406	10.31	.775	19.69	1.090	27.69
.031	0.79	.159	4.04	.465	11.81	.781	19.84	1.105	28.07
.045	1.14	.171	4.34	.468	11.89	.802	20.37	1.125	28.58
.058	1.47	.172	4.37	.499	12.67	.807	20.50	1.146	29.11
.062	1.57	.188	4.78	.500	12.70	.812	20.62	1.156	29.36
.065	1.65	.215	5.46	.562	14.27	.833	21.16	1.172	29.77
.090	2.29	.216	5.49	.592	15.04	.840	21.34	1.181	30.00
.094	2.39	.218	5.54	.625	15.88	.895	22.73	1.312	33.32
.105	2.67	.219	5.56	.641	16.28	.896	22.76	2.217	56.31
.109	2.77	.234	5.94	.646	16.41	.906	23.01		

FIGURE 1. Type UG-1060A/U, connector, plug, electrical – Continued.

MIL-DTL-3655/9E



Inches	mm	Inches	mm
.001	0.03	.156	3.96
.005	0.13	.344	8.74
.016	0.41	.710	18.03
.090	2.29	1.031	26.19

NOTES:

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

FIGURE 2. Visual mating requirements.

ENGINEERING DATA

Nominal impedance: 95 ohms.

Frequency range: DC to 500 MHz, maximum.

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

Mating connector: M3655/8-1059.

Intended use: Type M3655/9-1060 electrical connector is designed for use with radio frequency cable M17/56-RG130.

REQUIREMENTS:

Design and construction: See figures 1 and 2.

Center contacts 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: 15 inch-pounds, minimum.

Mating characteristics: Not applicable.

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.

MIL-DTL-3655/9E

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 2×10^8 ohms within 5 minutes after removal from the humidity chamber.

Cable retention force: 75 pounds, minimum.

Coupling nut retention: Applicable.

Part or Identifying Number (PIN): M3655/9-1060.

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.

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
SAE-AS28775

MIL-DTL-3655/9E

CONCLUDING MATERIAL

Custodians:

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

Preparing activity:

DLA - CC

(Project 5935-2007-021)

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>.