

MILITARY SPECIFICATION SHEET

CONNECTOR, RECEPTACLE, ELECTRICAL, CLASS II

(COAXIAL, SERIES TWIN), TYPE UG-1057/U

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The complete requirements for procuring the connector described herein shall consist of this document and the latest issue of Specification MIL-C-3655

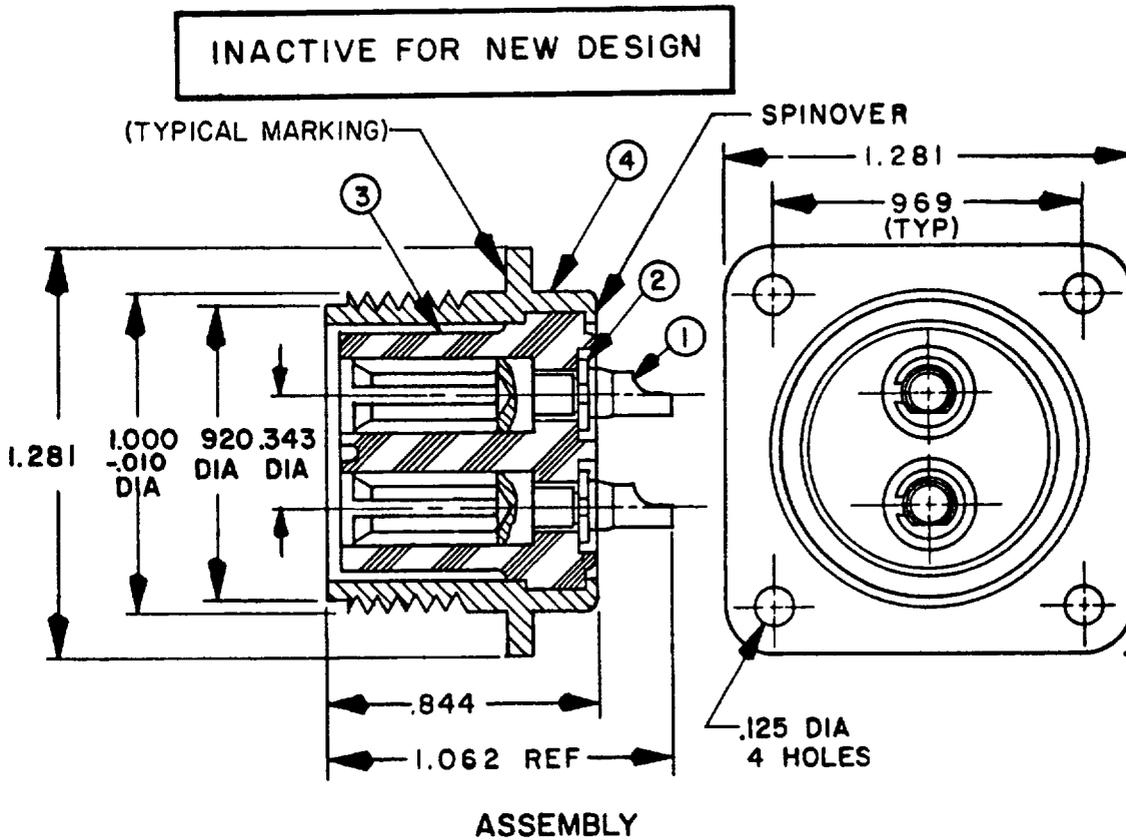


FIGURE 1. Type UG-1057/U electrical receptacle connector.

Ⓑ denotes changes

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Item	Description	Material	Quantity
1	Center contact	Copper beryllium	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	.03	.068	1.73	.176	4.47	.344	8.74	.844	21.44
.002	.05	.075	1.90	.187	4.75	.375	9.52	.874	22.20
.004	.10	.078	1.98	.205	5.21	.402	10.21	.876	22.25
.005	.13	.109	2.77	.210	5.33	.410	10.41	.920	23.37
.010	.25	.111	2.82	.218	5.54	.484	12.29	.930	23.62
.015	.38	.125	3.18	.219	5.56	.562	14.27	.969	24.61
.031	.79	.132	3.35	.224	5.69	.578	14.68	.984	24.99
.0312	.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 general information only and are based upon 1.00 inch = 25.4 mm.
3. Unless otherwise specified, tolerance is ± 0.005 (.13 mm).

FIGURE 1. Type UG-1057/U electrical receptacle connector - Continued.

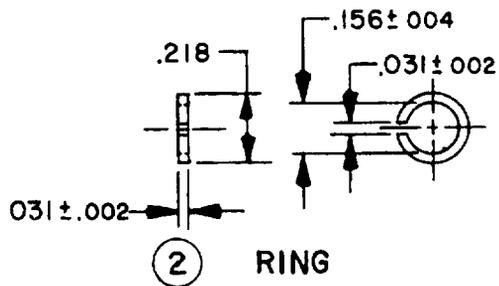
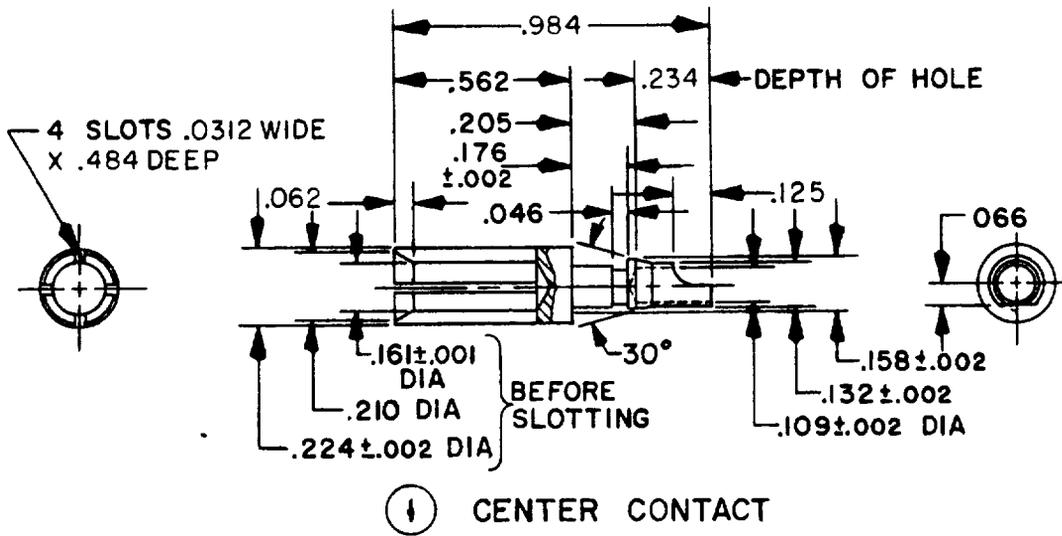
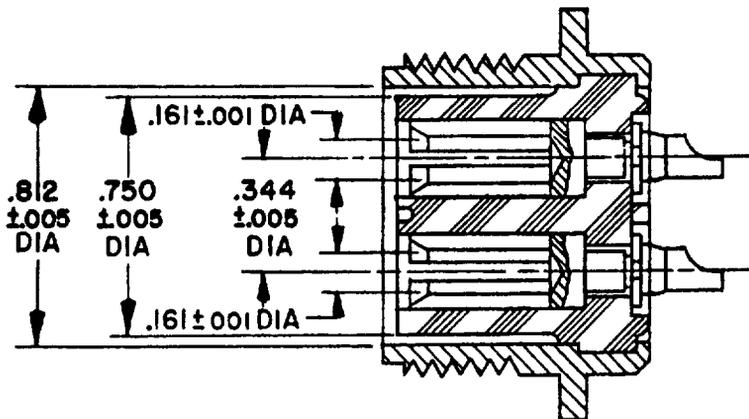


FIGURE 1. Type UG-1057/U electrical receptacle connector - Continued



INCHES	MM
.001	.03
.005	.13
.161	4.09
.344	8.74
.750	19.05
.812	20.62

NOTES.

1. Dimensions are in inches.
2. Metric equivalents are given for general information only and are based upon 1.00 inch = 25.4 mm.

FIGURE 2. Visual mating requirements

(B) ENGINEERING DATA:

Nominal impedance: 95 ohms.

Frequency range: DC to 500 MHz, maximum

Voltage rating: 500 volts peak at sea level.

Mating connector: M3655/7-1058.

Intended use: Type M3655/6-1057 electrical connector is designed for use with radio-frequency cable M17/56-RG130 and shield M3655/10-1556.

(B) REQUIREMENTS.

Design and construction: See figures 1 and 2.

Metal parts: All metal parts shall have silver plating of not less than 0.0002 inch thickness and of sufficient smoothness and density to withstand the salt spray (corrosion) test. Silver plating shall be in accordance with QQ-S-365.

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: 0.159 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, minimum.

Test pin finish: 16 microinches.

Insertion depth: .125 inch, minimum.

Withdrawal force: 9 ounces, minimum.

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 (millionms, 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

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Dielectric withstanding voltage. 1,500 Vrms, 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.

Marking. In accordance with MIL-C-3655.
Part number. M3655/6-1057.

Qualification Not required.

Custodians

Army - CR
Navy - EC
Air Force - 85

Review activities.

Army - MI
Navy - OS
Air Force - 11, 17, 99
DLA - ES

User activities.

Army - AT
Navy - AS, MC, SH
Air Force - 19

Preparing activity

Army - CR

Agent.

DLA - ES

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