



## DEFENSE LOGISTICS AGENCY

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IN REPLY  
REFER

DSCC-VAI (Mr. Ron Gary/(614) 692-0568

May 12, 2004

### MEMORANDUM FOR MILITARY/INDUSTRY DISTRIBUTION

**SUBJECT:** Initial Drafts of MIL-PRF-55339/1B, /3A through /25C, /32A through /39A and /49A through /51A; Adapter, Connectors, Coaxial, Radio Frequency, Various Series; Project Numbers 5935-4657-001 through -035.

The initial drafts for this subject documents will be available for viewing and downloading from the DSCC-VAI Web site within the next 5 working days:

<http://www.dsccl.dla.mil/Programs/MilSpec/initialdrafts.asp>

Changes to this document include new part number additions that allow for the use of Nickel plated adapter bodies, contact resistance values for the new plating and format up dates. However, the entire set of specification sheets are offered up for comment.

Concurrence or comments are required at this Center within 45 days from the date of this letter. Late comments will be held for the next coordination of this document. Comments from Military Departments must be identified as either "Essential" or "Suggested". Essential comments must be justified with supporting data. Military review activities should forward comments to their custodians, as applicable, in sufficient time to allow for consolidation of the Department reply.

Please forward your comments or concurrence electronically to the project officer listed below. This can be in the form of a return e-mail, with or without attached text files. If an electronic response is not possible, we will accept comments via letter, facsimilie, or phone call. Any further coordination concerning this document will be circulated only to firms and organizations that furnish comments or reply that they have an interest.

The point of contact for this document is Mr. Ron Gary. The preferred method of contact is via e-mail: [Estel.Gary@dla.mil](mailto:Estel.Gary@dla.mil). Mr. Gary can also be reached at 614-692-0568/DSN 850-0568, or by facsimilie 614-692-6940.

Sincerely,

/SIGNED/

RICHARD L. TAYLOR  
Chief,  
Interconnection Devices Team

Note: This draft dated 10 May 2004, prepared by the Defense Supply Center Columbus (DSCC-VAI) has not been approved and is subject to modification.  
**DO NOT USE FOR ACQUISITION PURPOSES**

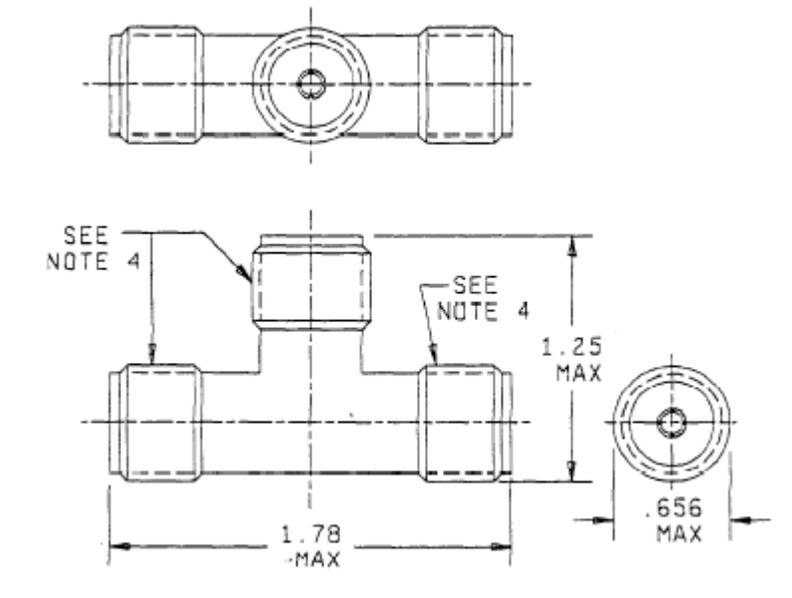
MIL-PRF-55339/6B  
**DRAFT**  
SUPERSEDING  
MIL-PRF-55339/6A  
13 July 1987

### PERFORMANCE SPECIFICATION

#### ADAPTER, CONNECTOR, COAXIAL, RADIO FREQUENCY. (WITHIN SERIES N), CLASS 2, "T" PLUG

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

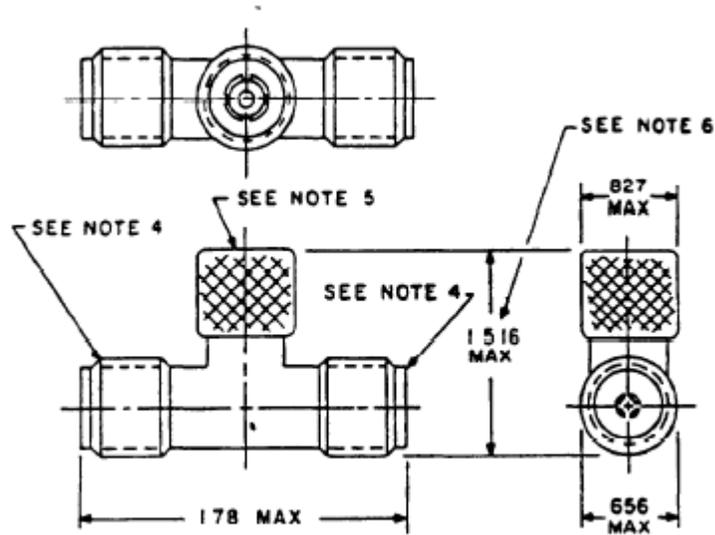
The requirements for acquiring the adapter described herein shall consist of this specification sheet and MIL-PRF-55339.



Part Identifying Number (PIN): M55339/06-00028 or M55339/06-70001

Inches	mm
.656	16.66
1.25	31.8
1.78	45.2

FIGURE 1. General configuration.



Inches	mm
1.78	45.1
1.516	38.51
.656	16.66
.827	21.01

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. All undimensioned pictorial representations are for reference purposes only.
4. N interface, socket contact, in accordance with MIL-STD-348.
5. N interface, pin contact, in accordance with MIL-STD-348.
6. Maximum dimension applies when the coupling nut is biased forward.

PIN M55339/06-00001 or M55339/06-70002

FIGURE 1. General configurations . (continued)

REQUIREMENTS:

Design and construction:

General configuration: See figure 1 and MIL-STD-348.

Impedance 50 ohms, nominal.

Working voltage:

Sea level: 1,000 V rms.  
70,000 feet: 250 V rms.

Frequency range: Not applicable.

Temperature range: -65° to +165°C.

PERFORMANCE REQUIREMENTS (installation torque of 6 to 10 inch-pounds).

Center contact retention:

Axial force: 6 pounds minimum.  
Torque: 4 inch-ounces, minimum.

Force to engage and disengage:

Longitudinal force – Not applicable.  
Torque – 6 inch-pounds, maximum.

Coupling proof torque: Not applicable.

Mating characteristics:

Center contact (socket):

Oversize test pin diameter: .074 inch, minimum.  
Insertion depth: .125 inch, minimum.  
Number of insertions: 1.

Maximum test pin (insertion force test):

Steel test pin diameter: .066 inch, minimum.  
Pin finish: 16 microinches.  
Insertion force: 2 pounds, maximum.  
Number of insertions: 1.

Minimum test pin (withdrawal force):

Steel test pin diameter: .063 inch, maximum.  
Pin finish: 16 microinches.  
Withdrawal force: 2 ounces, minimum.  
Number of withdrawals: 1.

Outer contact:

Minimum test ring inner diameter: .316 in., max.  
Ring finish: 16 microinches.  
Insertion force: 25 pounds, maximum.  
Insertion depth: .093 inch, minimum.  
No. of insertions: 1.

Maximum test ring inner diameter: .324 in., min.

Test ring finish: 16 microinches.  
Insertion depth: .031 inch, maximum.  
Number of insertions: 1.

Permeability: <2.0

Seal: Hermetic – Not applicable.

Pressurized – Not applicable.

Weatherproof – Not applicable.

Insulation resistance: 5,000 megohms, min.

VSWR: Not applicable.

RF leakage (total): Not applicable.

RF insertion loss: Not applicable.

Durability 500 cycles minimum at 12 cycles/min, maximum. The connector shall meet the mating characteristics and force to engage and disengage requirements.

Dielectric withstanding: Test voltage: 2,500 V rms, minimum (sea level).

Contact resistance (milliohms, maximum).

<u>Contact</u>	<u>Initial</u>	<u>After environment</u>
Center	2.5	3.0
Outer	0.2	N/A
Outer (-00002, -00003)	0.4	N/A

Vibration, high frequency: Interruptions: 1 μs, max.

Shock: Test condition I.

Thermal shock: Test condition C.

Moisture resistance: 200 megohms, minimum

Corona level:

Voltage: 500 V, minimum.

Altitude: 70,000 feet, minimum.

RF high potential withstanding voltage:

RF voltage: 1,500 V rms. minimum.

Frequency: 5 MHz, minimum.

Salt spray (corrosion): Applicable.

Coupling mechanism retention force: 100 pounds, minimum.

Part Identifying Number (PIN): M55339/06--00028 and M55339/06-00001

Or:

Part Identifying Number. (PIN): M55339/06-70001 and M55339/06-70002. **CAUTION: THIS PART HAS A NICKEL PLATED BODY AND IS NOT FOR USE IN APPLICATIONS WHERE PASSIVE INTERMODULATION GENERATION (PIM) MAY BE A CONCERN.**

TABLE I. Cross reference of part numbers.

PIN	Superseded part number or type designation <sup>1/</sup>
M55339/06-00028	MS15506 REB49077 UG-28A/U
M55339/06-00001	REB49080 UG-107B/U

<sup>1/</sup> The superseded part number or the type designation is for cross reference only. Where a superseded part number or type designation is not given, none was assigned or will be assigned. The PIN: M55339/06-00028, and M55339/06-00001.

Group qualification: See table II.

TABLE II. Group qualifications.

Group	Submission and qualification of any of the following connectors	Qualifies the following connectors
I	M55339/06-00001 M55339/06-0028	M55339/06-00001 and M55339/06-00028

Referenced documents.

MIL-STD-348  
MIL-PRF-55339

Custodians:

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

Preparing activity:  
DSCC - CC

Review activities:

Army – AR, AT, EA, MI  
Navy – AS, MC, OS, SH  
Air Force – 19, 99

(Project 5935-4657-005)

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 [www.dodssp.daps.mil](http://www.dodssp.daps.mil).