

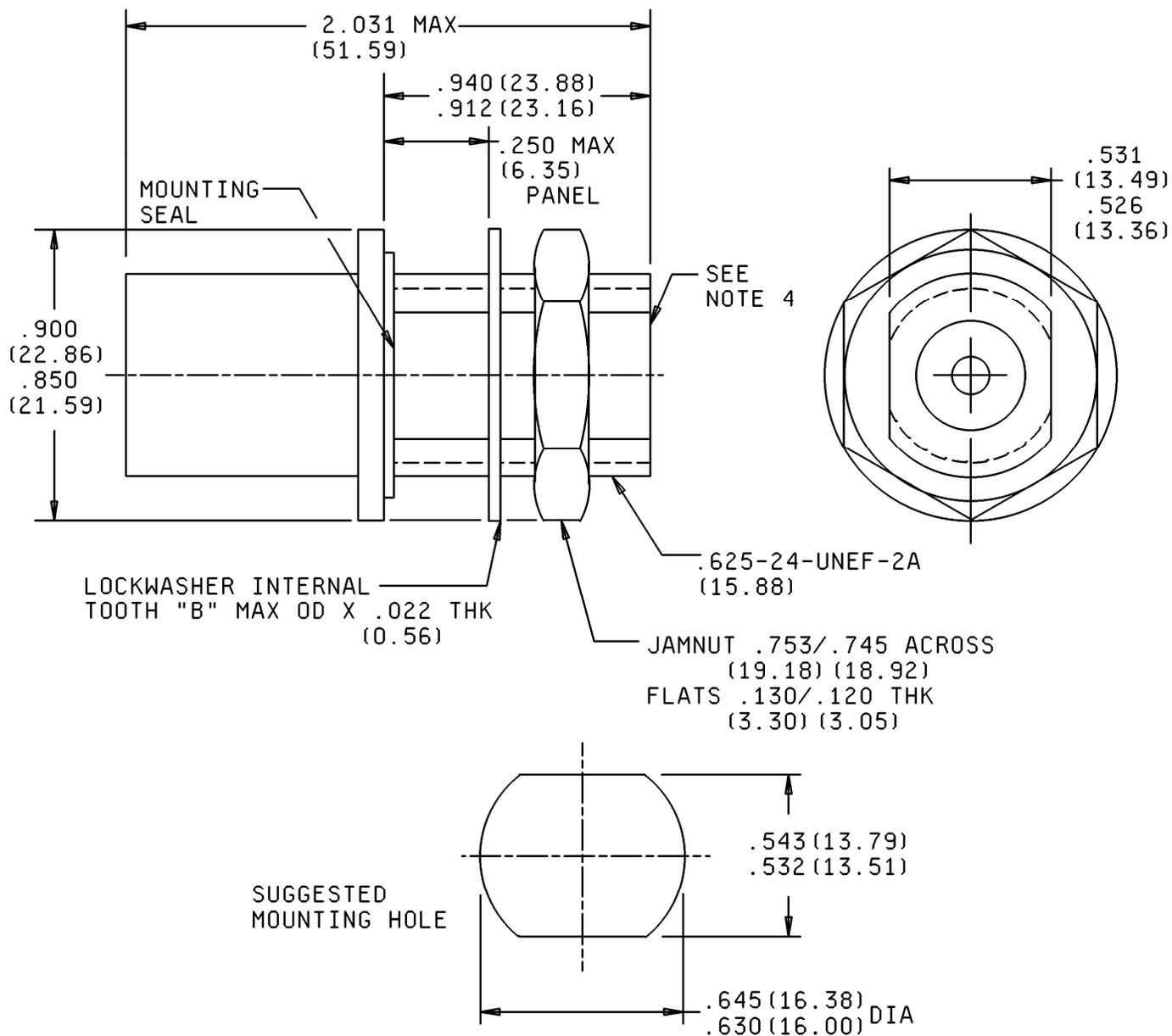
REVISIONS

LTR	DESCRIPTION	DATE	APPROVED
A	Clarify VSWR and IL testing requirements as engineering info.	2 February 2010	Abdonasser M. Abdouni

Prepared in accordance with ASME Y14.100

Source Control Drawing

REV																			
PAGE																			
REV STATUS OF PAGES	REV	A	A	A	A	A													
	PAGE	1	2	3	4	5													
PMIC N/A	PREPARED BY Ron Gary					DEFENSE SUPPLY CENTER, COLUMBUS COLUMBUS, OHIO 43218-3990													
Original date of drawing 7 May 2001	CHECKED BY Lee Surowiec					TITLE CONNECTOR, RECEPTACLE, ELECTRICAL, RF, SERIES N, JAMNUT MOUNTED, 75 OHM, FOR LOW SMOKE CABLES													
	APPROVED BY Robert Heber																		
	SIZE A	CAGE CODE 037Z3					DWG. NO.				01026								
	REV A					PAGE		1		OF		5							

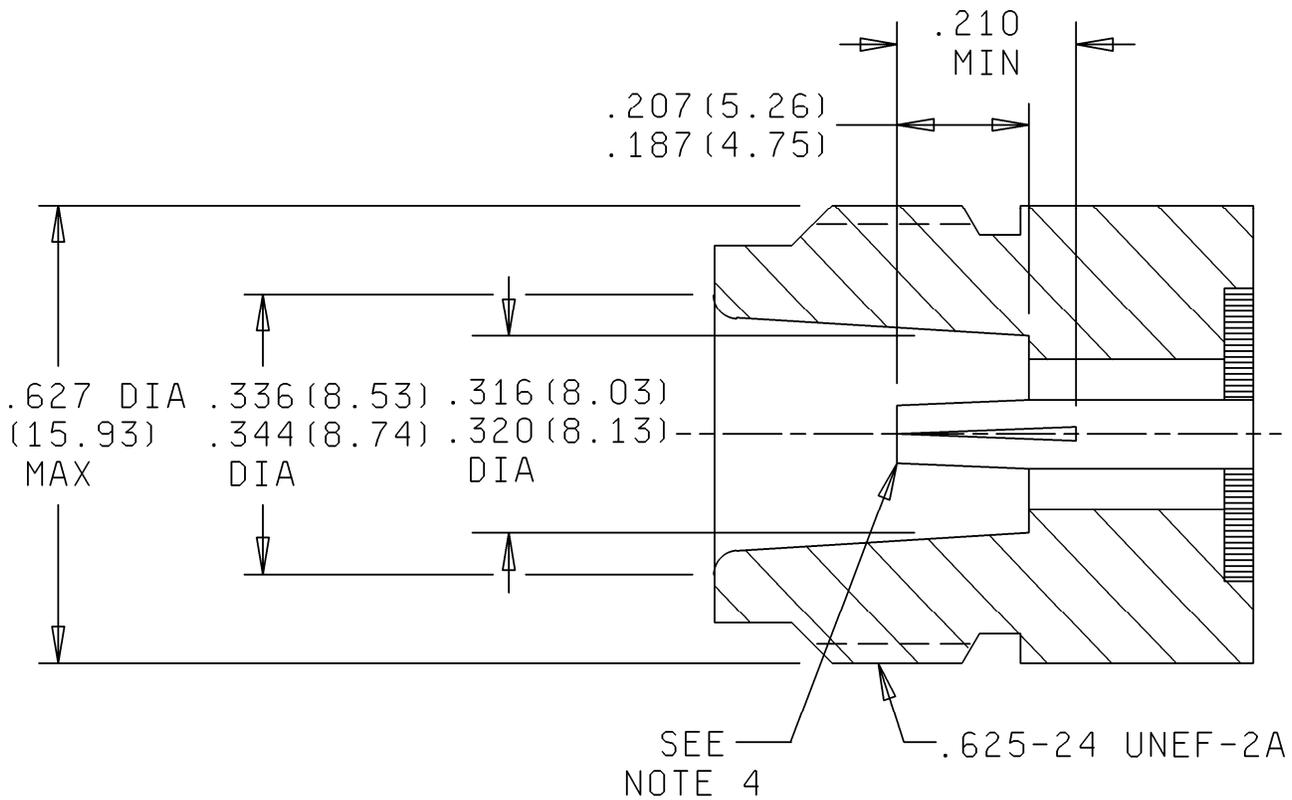


NOTES:

1. Dimensions are in inches. Metric equivalents are in parenthesis.
2. Metric equivalents are given for information only.
3. All undimensioned pictorial configurations are for reference purposes only.
4. Series N, socket contact interface, 75Ω, in accordance with figure 2.
5. Wrench flats to accommodate STD wrench openings in accordance with FED-STD-H28, appendix 10.

FIGURE 1. General configuration.

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JACK

NOTES:

1. Dimensions are in inches. Metric equivalents are in parenthesis.
2. Metric equivalents are given information only.
3. Utilizes standard 50Ω body with 75Ω contact/air dielectric configuration.
4. ID to meet contact resistance, mating characteristics and connector durability when mated with a 036/.037 (0.091/0.094 mm)

FIGURE 2. Interface, series N, socket contact, 75Ω.

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ENGINEERING DATA:

This document covers the requirements for radio frequency connectors accommodating special low smoke coaxial cables.

Frequency range: 0-2.5 GHz.
VSWR: 1.30 :1, maximum.
Insertion loss: .07 dB at 2 GHz.

REQUIREMENTS:

These connectors shall conform to all the requirements of the latest issue of DSCC drawing 84148, figures 1 and 2 herein, and MIL-PRF-39012/3, and accommodate the cables listed in table I, with the following additions and exceptions.

Electrical: Shall be in accordance with MIL-PRF-39012/3.

Impedance: 75Ω.

Mechanical: Shall be in accordance with MIL-PRF-39012/3 with the following exceptions and additions:

Gage requirements:

Force to Engage/Disengage is the same as the 50Ω version (MIL-PRF-39012/3).

Mating characteristics are as follows:

Center contact (socket):

Oversize test pin: .040 diameter, minimum (nonclosed entry contact only).
Insertion depth: .125, minimum.
Number of insertions: 1.

Insertion force test: Steel test pin diameter .037 (0.94 mm), minimum.
Test pin finish: 16 microinches.
Insertion force: 2 pounds, maximum.

Withdrawal force test: Steel test pin diameter .036 (0.91 mm), maximum.
Withdrawal force: 2 ounces, minimum.
Test pin finish: 16 microinches.

Environmental: Shall be in accordance with MIL-PRF-39012/3.

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TABLE I. Cable accommodation.

Part or Identifying Number (PIN) <u>1/</u> <u>2/</u>	Applicable cable
01026NBSA @	M17/229-00001

- 1/ These connectors have captivated center contacts.
2/ These connectors are assembled using the MIL-C-22520/5 crimp tool and using the following crimp dies:
 @ M22520/5-19 Closure A.

Approved sources of supply. Approved sources of supply are listed herein. Additional sources will be added as they become available. The vendors listed below have agreed to this drawing and a certificate of compliance has been submitted to DSCC-VAI.

DSCC drawing PIN	Vendor CAGE number	Vendor similar PIN <u>1/</u>
01026NBSA	00795	3190-885

- 1/ Parts must be purchased to this DSCC PIN to assure that all performance requirements and test are met.

Vendor CAGE
Number

00795

Vendor name
and address

Delta Electronics
 416 Cabot Street
 Beverly, MA 01915

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