

**REVISIONS**

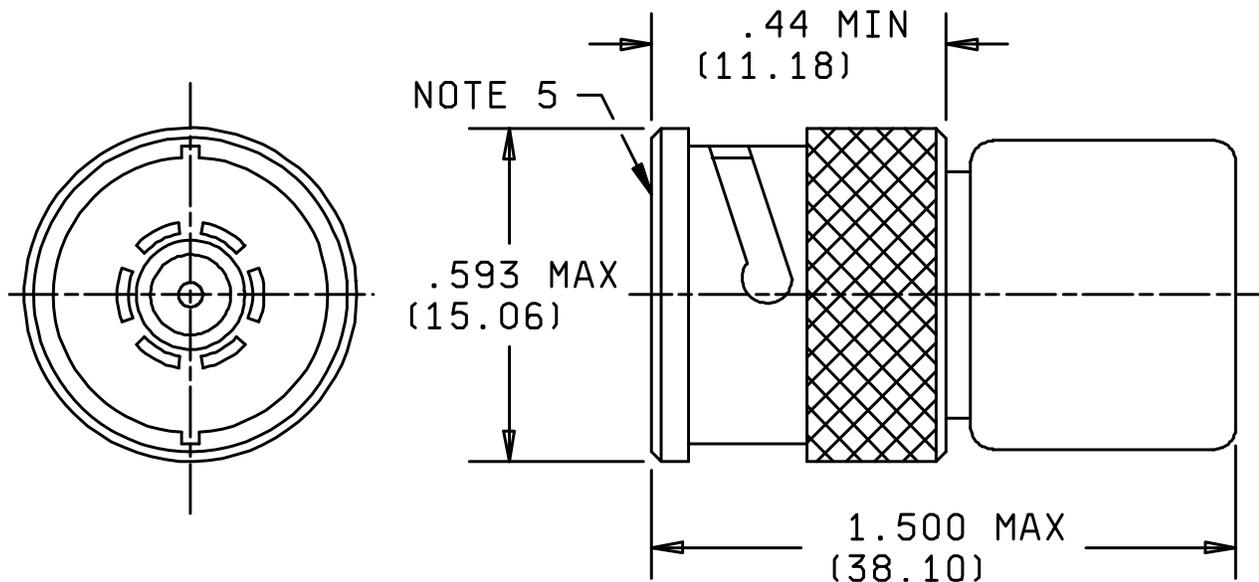
<b>LTR</b>	<b>DESCRIPTION</b>	<b>DATE</b>	<b>APPROVED</b>
<b>A</b>	Clarify VSWR and IL testing requirements as engineering info.	2 February 2010	Abdonasser M. Abdouni

Prepared in accordance with ASTM Y14.100

Source Control Drawing

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<b>REV STATUS OF PAGES</b>	<b>REV</b>	A	A	A	A	A	A										
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<b>PMIC</b> N/A	<b>PREPARED BY</b> Ron Gary		<b>DEFENSE SUPPLY CENTER, COLUMBUS COLUMBUS, OHIO 43218-3990</b>													
Original date of drawing  7 May 2001	<b>CHECKED BY</b> Lee Surowiec		<b>TITLE</b> <b>CONNECTOR, PLUG, ELECTRICAL, RF, SERIES BNC, 75 OHM, FOR LOW SMOKE CABLES</b>													
	<b>APPROVED BY</b> Robert Heber															
	<b>SIZE</b> <b>A</b>	<b>CAGE CODE</b> <b>037Z3</b>	<b>DWG. NO.</b>	<b>01024</b>												
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NOTES:

1. Dimensions are in inches; metric equivalents are in parentheses.
2. Metric equivalents are given for general information only.
3. All undimensioned pictorial configurations are for reference purposes only.
4. No safety wire holes are required.
5. Series BNC, pin contact interface, 75Ω, in accordance with figure 2.

FIGURE 1. General configuration.

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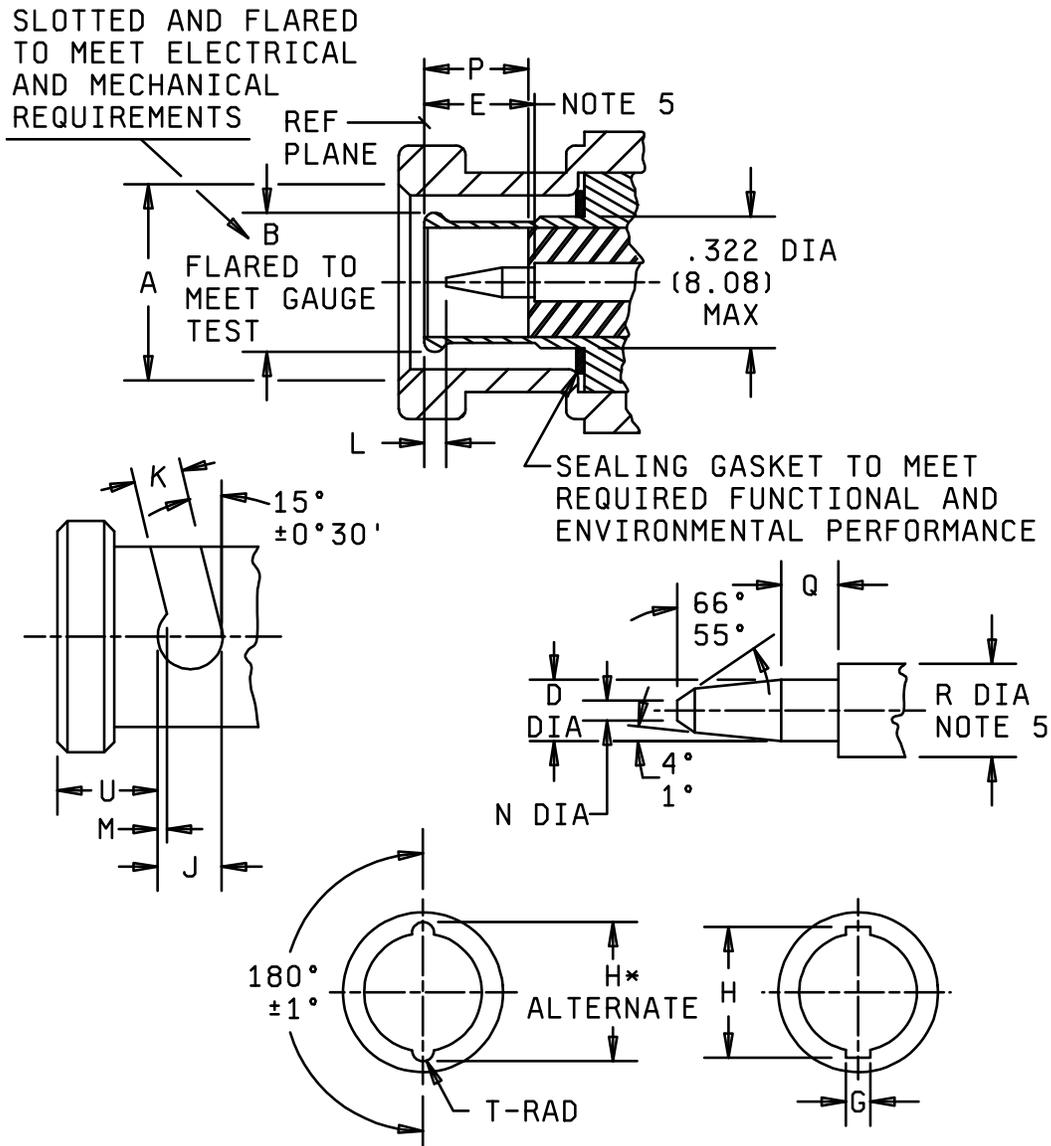


FIGURE 2. Interface, series BNC, pin contact, 75Ω.

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Dim Ltr	Dimensions in inches with metric equivalents (mm) in parentheses	
	Minimum	Maximum
A	.385 (9.78)	.390 (9.91)
B	Gauge test	
D	.052 (1.32)	.054 (1.37)
E	.210 (5.33)	.230 (5.84)
G	.091 (2.31)	.097 (2.46)
H	.463 (11.76)	.473 (12.01)
H *	.394 (10.01)	.400 (10.16)
J	.124 (3.15)	
K	.091 (2.31)	.097 (2.46)
L	.003 (0.08)	
M	.018 (0.46)	.022 (0.56)
N		.025 (0.64)
P	.208 (5.28)	.228 (5.79)
Q	.078 (1.98)	
R	.052 (1.32)	.087 (2.21)
T	.045 (1.14)	.049 (1.24)
U	.180 (4.57)	.184 (4.67)

NOTES:

1. Dimensions are in inches. Metric equivalents are in parentheses.
2. Metric equivalents are given for general information only.
3. In the mated condition, the longitudinal force of the spring of the coupling mechanism shall exceed the pressure exerted by the sealing gasket by an amount necessary to insure butting of the outer contacts at the reference plane.
4. This interface shall meet the gauge requirements as specified.
5. This dimension applies only if R dimension is not the same as D dimension.

FIGURE 2. Interface, series BNC, pin contact, 75Ω - Continued.

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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: .16 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-39012/16, and accommodate the cables listed in table I, with the following additions and exceptions.

Electrical: Shall be in accordance with MIL-PRF-39012/16 with the following exceptions and additions.

Impedance: 75 Ω.

Mechanical: Shall be in accordance with MIL-PRF-39012/16 with the following exception:

Interface shall be in accordance figure 2.

Environmental: Shall be in accordance with MIL-PRF-39012/16.

TABLE I. Cable accommodation.

Part or Identifying Number (PIN) <u>1/</u> <u>2/</u>	Applicable cable
01024BBSA @	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.

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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>
01024BBSA	00795	3190-1075

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

**DEFENSE SUPPLY CENTER, COLUMBUS**  
**COLUMBUS, OH 43218-3990**

SIZE

**A**

CAGE CODE

**037Z3**

DWG NO.

**01024**

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