



RF Cable Assemblies Technical Data Sheet

PE3W09944-48

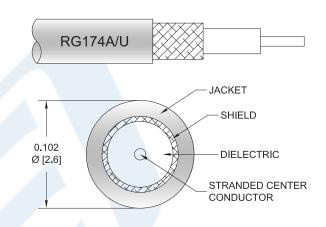
Configuration

Connector 1: BNC Female Bulkhead
Connector 2: TNC Female Bulkhead

Cable Type: RG174

Features

- Max Frequency 1 GHz
- 66% Phase Velocity
- PVC Jacket



Applications

· General Purpose

· Laboratory Use

Description

Pasternack's PE3W09944-48 BNC female bulkhead to TNC female bulkhead 48 inch cable using RG174 coax is part of our full line of RF components available for same-day shipping. Pasternack's flexible RF cable assemblies are ideal for applications where tight bends and flexure are required. This Pasternack BNC to TNC cable assembly has a female to female gender configuration with 50 ohm flexible RG174 coax. The PE3W09944-48 BNC female to TNC female cable assembly operates to 1 GHz. Our RF cable assembly with BNC bulkhead and TNC bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications.

Custom versions of most RF cable assemblies can be built and shipped same day. Custom cable assembly lengths can be obtained by specifying the desired length on the web site at time of order or by contacting a sales representative. Other available RF cable assembly value added services include connector orientation or clocking, heat shrink booting and custom labeling. RF testing can also be performed to document the electrical performance of your cable assembly.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: BNC Female Bulkhead to TNC Female Bulkhead Cable 48 Inch Length Using RG174 Coax PE3W09944-48

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451





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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		1,000	MHz
VSWR			1.4:1	
Velocity of Propagation		66		%
Capacitance		31.08 [101.97]		pF/ft [pF/m]

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	100	250	500	1,000		MHz
Insertion Loss (Typ.)	0.52	0.68	0.96	1.48		dB

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax cable and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1 dB per connector.

Mechanical Specifications

Cable Assembly

Length* 48 in [121.92 cm]
Diameter 0.689 in [17.5 mm]

Cable

Cable TypeRG174Impedance50 OhmsInner Conductor TypeStrandedInner Conductor Material and PlatingCopper Clad SteelDielectric TypePE

Dielectric Type
Number of Shields

Shield Layer 1 Tinned Copper Braid
Jacket Material PVC, Black
Jacket Diameter 0.11 in [2.79 mm]

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Connectors

ion Connector 1		
BNC Female Bulkhead	TNC Female Bulkhead	
	MIL-STD-348A	
50 Ohms	50 Ohms	
Brass, Gold	Brass, Gold	
30 μin minimum	30 μin minimum	
PTFE	PTFE	
Brass, Nickel	Brass, Nickel	
100 μin minimum	100 μin minimum	
	50 Ohms Brass, Gold 30 µin minimum PTFE Brass, Nickel	

Environmental Specifications

Temperature

Operating Range

-40 to +80 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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How to Order



Example: PE3W09944-12 = 12 inches long cable

PE3W09944-100cm = 100 cm long cable

BNC Female Bulkhead to TNC Female Bulkhead Cable 48 Inch Length Using RG174 Coax from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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URL: https://www.pasternack.com/bnc-female-tnc-female-rg174au-cable-assembly-pe3w09944-48-p.aspx

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

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PE3W09944-48 CAD DrawingBNC Female Bulkhead to TNC Female Bulkhead Cable 48 Inch Length Using RG174 Coax

