



SMB Jack to BNC Male Cable 48 Inch Length Using RG174 Coax, LF Solder

RF Cable Assemblies Technical Data Sheet

PE3W01494LF-48

Configuration

- Connector 1: SMB Jack
- Connector 2: BNC Male
- Cable Type: RG174

Features

- Max Frequency 1,000 MHz
- 66% Phase Velocity
- PVC Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W01494LF-48 SMB jack to BNC male 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 SMB to BNC cable assembly has a jack to male gender configuration with 50 ohm flexible RG174 coax. The PE3W01494LF-48 SMB jack to BNC male cable assembly operates to 1,000 MHz.

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.

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-------------------------|---------|---------------|---------|--------------|
| Frequency Range | DC | | 1,000 | MHz |
| VSWR | | | 1.5:1 | |
| Velocity of Propagation | | 66 | | % |
| Capacitance | | 31.1 [102.03] | | pF/ft [pF/m] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMB Jack to BNC Male Cable 48 Inch Length Using RG174 Coax, LF Solder PE3W-01494LF-48](#)



SMB Jack to BNC Male Cable 48 Inch Length
Using RG174 Coax, LF Solder

RF Cable Assemblies Technical Data Sheet

PE3W01494LF-48

Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|-----|------|-----|------|-------|-------|
| Frequency | 50 | 100 | 250 | 500 | 1,000 | MHz |
| Insertion Loss (Max.) | 0.4 | 0.53 | 0.8 | 1.04 | 1.4 | dB |

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax cable 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 | 0.57 in [14.48 mm] |
| Weight | 0.082 lbs [37.19 g] |

Cable

| | |
|--------------------------------------|---------------------------|
| Cable Type | RG174 |
| Impedance | 50 Ohms |
| Inner Conductor Type | Stranded |
| Inner Conductor Material and Plating | Copper Clad Steel, Silver |
| Dielectric Type | PE (LD) |
| Number of Shields | 1 |
| Shield Layer 1 | Tinned Copper Braid |
| Jacket Material | PVC, Black |
| Jacket Diameter | 0.11 in [2.79 mm] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMB Jack to BNC Male Cable 48 Inch Length Using RG174 Coax, LF Solder PE3W-01494LF-48](#)



SMB Jack to BNC Male Cable 48 Inch Length
Using RG174 Coax, LF Solder

RF Cable Assemblies Technical Data Sheet

PE3W01494LF-48

Connectors

| Description | Connector 1 | Connector 2 |
|------------------------------------|-----------------------|-----------------------|
| Type | SMB Jack | BNC Male |
| Specification | | MIL-STD-348A |
| Impedance | 50 Ohms | 50 Ohms |
| Contact Material and Plating | Brass, Gold | Brass, Gold |
| Contact Plating Specification | 30 μ in. Minimum | 50 μ in. minimum |
| Dielectric Type | PTFE | Teflon |
| Body Material and Plating | Brass, Nickel | Brass, Nickel |
| Body Plating Specification | 100 μ in. Minimum | 100 μ in. minimum |
| Coupling Nut Material and Plating | | Brass, Nickel |
| Coupling Nut Plating Specification | | 100 μ in. minimum |

Mechanical Specification Notes:

*All cable assemblies have a length tolerance of 1.5% or $\pm 3/8$ ", whichever is greater.

Environmental Specifications

Temperature

Operating Range

-40 to +80 deg C

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMB Jack to BNC Male Cable 48 Inch Length Using RG174 Coax, LF Solder PE3W-01494LF-48](#)



SMB Jack to BNC Male Cable 48 Inch Length Using RG174 Coax, LF Solder

RF Cable Assemblies Technical Data Sheet

PE3W01494LF-48

How to Order

Part Number Configuration:

PE3W01494LF

- **xx**

uu

Unit of Measure:
cm = Centimeters
<blank> = Inches
Length
Base Number

Example: PE3W01494LF-12 = 12 inches long cable
PE3W01494LF-100cm = 100 cm long cable

SMB Jack to BNC Male Cable 48 Inch Length Using RG174 Coax, LF Solder 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.

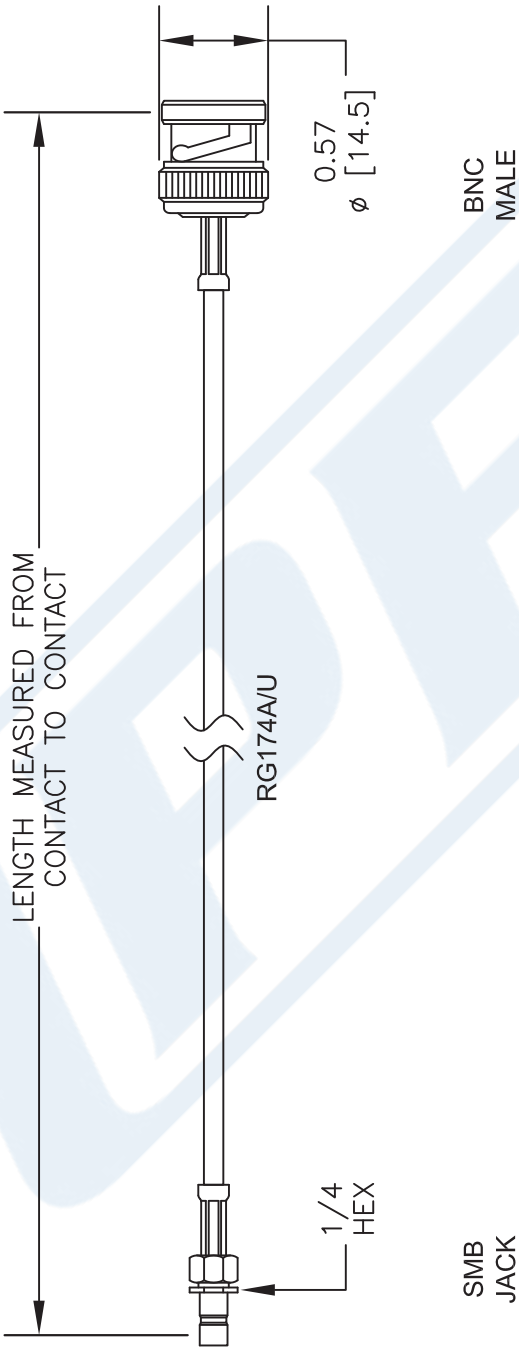
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMB Jack to BNC Male Cable 48 Inch Length Using RG174 Coax, LF Solder PE3W01494LF-48](https://www.pasternack.com/smb-jack-bnc-male-rg174au-cable-assembly-pe3w01494lf-48-p.aspx)

URL: <https://www.pasternack.com/smb-jack-bnc-male-rg174au-cable-assembly-pe3w01494lf-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.

PE3W01494LF-48 CAD Drawing

SMB Jack to BNC Male Cable 48 Inch Length Using RG174 Coax, LF Solder



- NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
 3. DIMENSIONS ARE IN INCHES [mm].
 4. LENGTH TOLERANCE IS $\pm 1.5\%$ OR $3/8"$, WHICHEVER IS GREATER.

DWG TITLE

PE3W01494LF

FSCM NO. 53919

CAD FILE 102116

SCALE N/A

SIZE A

2233

PE PASTERNAK®
THE ENGINEER'S RF SOURCE
Pasternack Enterprises, Inc.
P.O. Box 16759 | Irvine | CA | 92623
Phone: (949) 261-1920 | Fax: (949) 261-7451
Website: www.pasternack.com | E-Mail: sales@pasternack.com