



75 Ohm BNC Male to 75 Ohm BNC Male Right Angle Cable
36 Inch Length Using 75 Ohm PE-B159-BL Blue Coax

RF Cable Assemblies Technical Data Sheet

PE38131/BL-36

Configuration

- Connector 1: BNC Male
- Connector 2: BNC Male Right Angle
- Cable Type: MINI 59

Features

- Max Frequency 4.5 GHz
- 83% Phase Velocity
- Double Shielded
- PVC Jacket

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE38131/BL-36 75 ohm BNC male to 75 ohm BNC male right angle 36 inch cable using 75 ohm PE-B159-BL 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 BNC cable assembly has a male to male gender configuration with 75 ohm flexible MINI 59 coax. The PE38131/BL-36 BNC male to BNC male cable assembly operates to 4.5 GHz. The right angle BNC interface on the MINI 59 cable allows for easier connections in tight spaces. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness.

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: [75 Ohm BNC Male to 75 Ohm BNC Male Right Angle Cable 36 Inch Length Using 75 Ohm PE-B159-BL Blue Coax PE38131/BL-36](#)



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Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-------------------------|---------|--------------|---------|--------------|
| Frequency Range | DC | | 4.5 | GHz |
| Velocity of Propagation | | 83 | | % |
| Capacitance | | 16.5 [54.13] | | pF/ft [pF/m] |
| DC Current | | | 5 | Amps |
| Operating Voltage (AC) | | | 300 | Vrms |

Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|-------|------|------|-------|----|-------|
| Frequency | 1 | 2.25 | 3 | 4.5 | | GHz |
| Insertion Loss (Typ.) | 0.179 | 0.81 | 2.16 | 2.789 | | dB |
| Return Loss (Max.) | 36 | 24 | 20 | 17 | | dB |

Mechanical Specifications

Cable Assembly

| | |
|----------|-----------------------|
| Length* | 36 in [914.4 mm] |
| Diameter | 1.36 in [34.54 mm] |
| Weight | 0.8528 lbs [386.82 g] |

Cable

| | |
|--------------------------------------|---------------------|
| Cable Type | MINI 59 |
| Impedance | 75 Ohms |
| Inner Conductor Type | Solid |
| Inner Conductor Material and Plating | Copper |
| Dielectric Type | PE (F) |
| Number of Shields | 2 |
| Shield Layer 1 | Aluminum Tape |
| Shield Layer 2 | Tinned Copper Braid |
| Jacket Material | PVC, Blue |
| Jacket Diameter | 0.159 in [4.04 mm] |

| | |
|------------------------------|------------------|
| One Time Minimum Bend Radius | 1.5 in [38.1 mm] |
|------------------------------|------------------|

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Connectors

| Description | Connector 1 | Connector 2 |
|-----------------------------------|---------------|------------------------------|
| Type | BNC Male | BNC Male Right Angle |
| Impedance | 75 Ohms | 75 Ohms |
| Contact Material and Plating | Brass, Gold | Brass/Beryllium Copper, Gold |
| Dielectric Type | HDPE | HDPE |
| Body Material and Plating | Brass, Nickel | Brass, Nickel |
| Coupling Nut Material and Plating | | Brass, Nickel |

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

Plotted and Other Data

Notes:

- Values at 25°C, sea level.

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How to Order

Part Number Configuration:

PE38131/BL - xx uu

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

Example: PE38131/BL-12 = 12 inches long cable
PE38131/BL-100cm = 100 cm long cable

75 Ohm BNC Male to 75 Ohm BNC Male Right Angle Cable 36 Inch Length Using 75 Ohm PE-B159-BL Blue 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [75 Ohm BNC Male to 75 Ohm BNC Male Right Angle Cable 36 Inch Length Using 75 Ohm PE-B159-BL Blue Coax PE38131/BL-36](#)

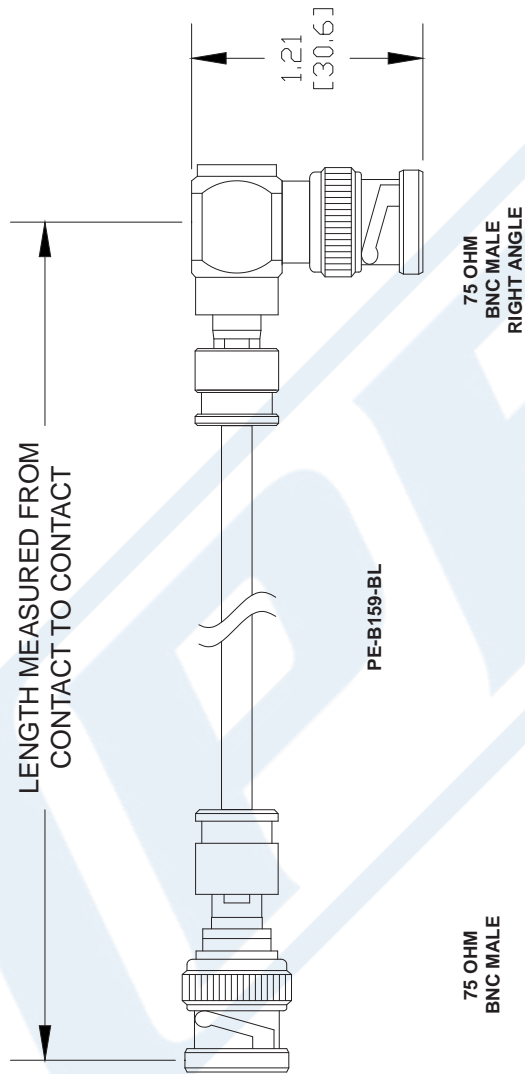
URL: <https://www.pasternack.com/bnc-male-bnc-male-pe-b159-bl-cable-assembly-pe38131-bl-36-p.aspx>

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.

PE38131/BL-36 CAD Drawing

75 Ohm BNC Male to 75 Ohm BNC Male Right Angle Cable

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| How To Order | | Part # Ext. | Length In Inches | Part # Ext. | Length In Centimeters |
|--|----------------|-------------|------------------|-------------|-----------------------|
| Part Number Configuration PE3 [zzz] [yy] - [xx] [uu] 00 - 99999 LF = RoHS Compliant < Blank > = Standard Note: LF applies only to RF cables | Examples | -12 | 12" | -25CM | 25Cm |
| | PE3000LF-100 | -24 | 24" | -50CM | 50Cm |
| | PE3000-100 | -36 | 36" | -75CM | 75Cm |
| | PE3000LF-100CM | -48 | 48" | -100CM | 100Cm |
| | PE3000-100CM | -60 | 60" | -125CM | 125Cm |
| | | -xx | Custom Length | -xxCM | Custom Length |

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 ± 1.5% OR 3/8", WHICHEVER IS GREATER.

DWG TITLE
PE38131-BL

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| | | | |
|----------------|----------------|-----------|--------|
| FSCM NO. 53919 | CAD FILE 41613 | SCALE N/A | SIZE A |
|----------------|----------------|-----------|--------|