



75 Ohm BNC Male to 75 Ohm BNC Male Cable 12 Inch  
Length Using 75 Ohm PE-B159-RD Red Coax

## RF Cable Assemblies Technical Data Sheet

**PE38130/RD-12**

### Configuration

- Connector 1: BNC Male
- Connector 2: BNC Male
- 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 PE38130/RD-12 75 ohm BNC male to 75 ohm BNC male 12 inch cable using 75 ohm PE-B159-RD 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 PE38130/RD-12 BNC male to BNC male cable assembly operates to 4.5 GHz. 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 Cable 12 Inch Length Using 75 Ohm PE-B159-RD Red Coax PE38130/RD-12](#)



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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.) | 0.059 | 0.27 | 0.72 | 0.93 |    | dB    |
| Return Loss (Max.)    | 36    | 24   | 20   | 17   |    | dB    |

### Mechanical Specifications

#### Cable Assembly

|          |                      |
|----------|----------------------|
| Length*  | 12 in [304.8 mm]     |
| Diameter | 0.57 in [14.48 mm]   |
| Weight   | 0.0929 lbs [42.14 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, Red            |
| Jacket Diameter                      | 0.159 in [4.04 mm]  |
| One Time Minimum Bend Radius         | 1.5 in [38.1 mm]    |

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 Cable 12 Inch Length Using 75 Ohm PE-B159-RD Red Coax PE38130/RD-12](#)



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### Connectors

| Description                  | Connector 1   | Connector 2   |
|------------------------------|---------------|---------------|
| Type                         | BNC Male      | BNC Male      |
| Impedance                    | 75 Ohms       | 75 Ohms       |
| Contact Material and Plating | Brass, Gold   | Brass, Gold   |
| Dielectric Type              | HDPE          | HDPE          |
| Body Material and Plating    | Brass, Nickel | 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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## RF Cable Assemblies Technical Data Sheet

**PE38130/RD-12**

### How to Order

Part Number Configuration:

**PE38130/RD - xx**

**uu**

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

Example: PE38130/RD-12 = 12 inches long cable  
PE38130/RD-100cm = 100 cm long cable

75 Ohm BNC Male to 75 Ohm BNC Male Cable 12 Inch Length Using 75 Ohm PE-B159-RD Red 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.

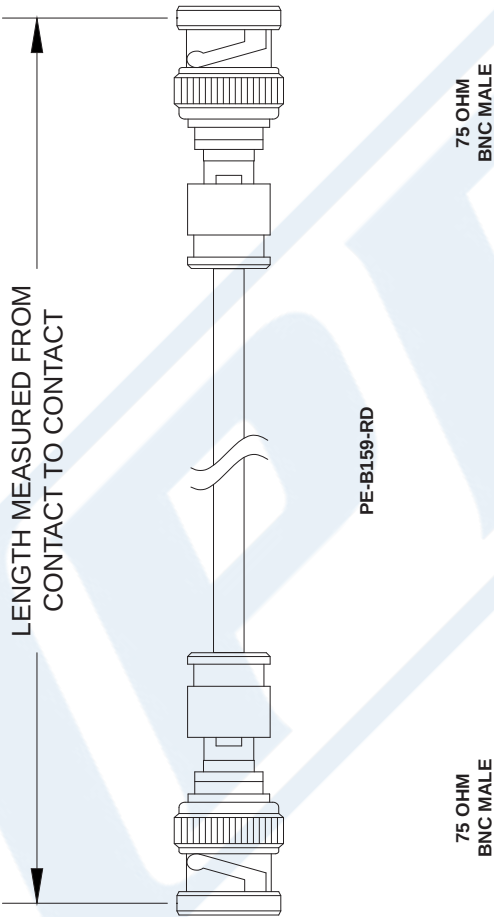
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [75 Ohm BNC Male to 75 Ohm BNC Male Cable 12 Inch Length Using 75 Ohm PE-B159-RD Red Coax PE38130/RD-12](#)

URL: <https://www.pasternack.com/bnc-male-bnc-male-pe-b159-rd-cable-assembly-pe38130-rd-12-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.

PE38130/RD-12 CAD Drawing

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



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DWG TITLE  
**PE38130-RD**

FSCM NO. 53919

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.

CAD FILE 41613

SCALE N/A

SIZE A