



75 Ohm Mini SMB Plug to 75 Ohm BNC Male Cable  
12 Inch Length Using 75 Ohm PE-B159-BK Black Coax

## RF Cable Assemblies Technical Data Sheet

PE38040/BK-12

### Configuration

- Connector 1: Mini SMB Plug
- 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 PE38040/BK-12 75 ohm Mini SMB plug to 75 ohm BNC male 12 inch cable using 75 ohm PE-B159-BK 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 Mini SMB to BNC cable assembly has a plug to male gender configuration with 75 ohm flexible MINI 59 coax. The PE38040/BK-12 Mini SMB plug 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 Mini SMB Plug to 75 Ohm BNC Male Cable 12 Inch Length Using 75 Ohm PE-B159-BK Black Coax PE38040/BK-12](#)



75 Ohm Mini SMB Plug to 75 Ohm BNC Male Cable  
12 Inch Length Using 75 Ohm PE-B159-BK Black Coax

## RF Cable Assemblies Technical Data Sheet

PE38040/BK-12

### 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	0.0699 lbs [31.71 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, Black
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 Mini SMB Plug to 75 Ohm BNC Male Cable 12 Inch Length Using 75 Ohm PE-B159-BK Black Coax PE38040/BK-12](#)



75 Ohm Mini SMB Plug to 75 Ohm BNC Male Cable  
12 Inch Length Using 75 Ohm PE-B159-BK Black Coax

## RF Cable Assemblies Technical Data Sheet

PE38040/BK-12

### Connectors

Description	Connector 1	Connector 2
Type	Mini SMB Plug	BNC Male
Impedance	75 Ohms	75 Ohms
Contact Material and Plating	Beryllium Copper, Gold	Brass, Gold
Dielectric Type	Delrin, Teflon	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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [75 Ohm Mini SMB Plug to 75 Ohm BNC Male Cable 12 Inch Length Using 75 Ohm PE-B159-BK Black Coax PE38040/BK-12](#)



75 Ohm Mini SMB Plug to 75 Ohm BNC Male Cable  
12 Inch Length Using 75 Ohm PE-B159-BK Black Coax

## RF Cable Assemblies Technical Data Sheet

PE38040/BK-12

### How to Order

Part Number Configuration:

PE38040/BK - xx uu

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

Example: PE38040/BK-12 = 12 inches long cable  
PE38040/BK-100cm = 100 cm long cable

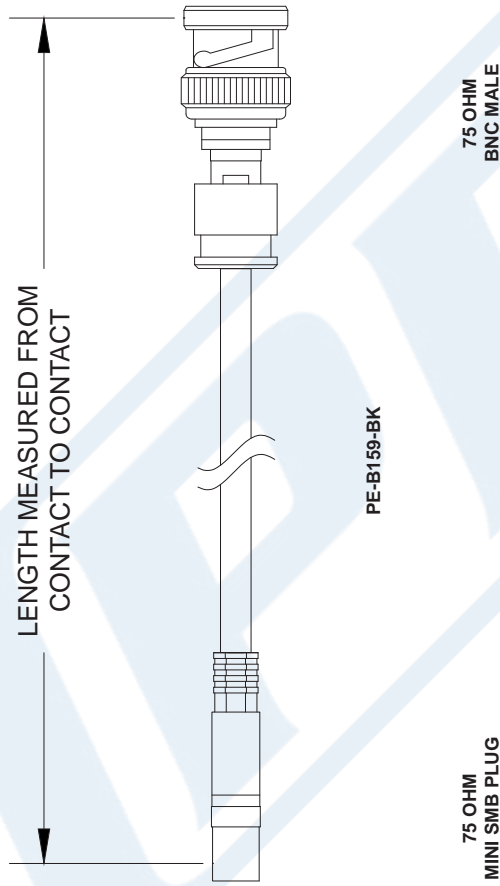
75 Ohm Mini SMB Plug to 75 Ohm BNC Male Cable 12 Inch Length Using 75 Ohm PE-B159-BK Black Coax from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection 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 Mini SMB Plug to 75 Ohm BNC Male Cable 12 Inch Length Using 75 Ohm PE-B159-BK Black Coax PE38040/BK-12](#)

URL: <https://www.pasternack.com/mini-smb-plug-bnc-male-pe-b159-bk-cable-assembly-pe38040-bk-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.

**PE38040/BK-12 CAD Drawing**  
 75 Ohm Mini SMB Plug to 75 Ohm BNC Male Cable 12 Inch  
 Length Using 75 Ohm PE-B159-BK Black Coax



How To Order		Part # Ext.	Length In Inches	Part # Ext.	Length In Centimeters
Part Number Configuration PE3 <input type="text" value="zzz"/> <input type="text" value="yy"/> - <input type="text" value="xx"/> <input type="text" value="uu"/> 00 - 99999 LF = RoHS Compliant < Blank > = Standard Note: LF applies only to RF cables		-12	12"	-25CM	25Cm
Examples PE3000LF-100 PE3000-100 PE3000LF-100CM PE3000-100CM		-24	24"	-50CM	50Cm
CM = Centimeters < Blank > = Inches Length		-36	36"	-75CM	75Cm
		-48	48"	-100CM	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  
**PE38040-BK**

**PE PASTERNAK®**  
 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

CAD FILE 41613 SCALE N/A SIZE A

FSCM NO. 53919