



75 Ohm Mini SMB Plug to 75 Ohm BNC Male Cable Using 75 Ohm PE-B159-BK Blue Coax, RoHS

RF Cable Assemblies Technical Data Sheet

PE38040

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 75 ohm Mini SMB plug to 75 ohm BNC male 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 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 Using 75 Ohm PE-B159-BK Blue Coax, RoHS PE38040](#)



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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/ft
	0.19	0.89	2.36	3.05		dB/m
Return Loss (Max.)	36	24	20	17		dB

Mechanical Specifications

Cable Assembly

Diameter 0.57 in [14.48 mm]

Weight 0.0188 lbs [8.53 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	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.

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How to Order

Part Number Configuration:

PE38040

- **xx**

uu

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

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

75 Ohm Mini SMB Plug to 75 Ohm BNC Male Cable Using 75 Ohm PE-B159-BK Blue Coax, RoHS 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 Using 75 Ohm PE-B159-BK Blue Coax, RoHS PE38040](#)

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

75 Ohm Mini SMB Plug to 75 Ohm BNC Male Cable Using
75 Ohm PE-B159-BK Blue Coax, RoHS

Part Configurator

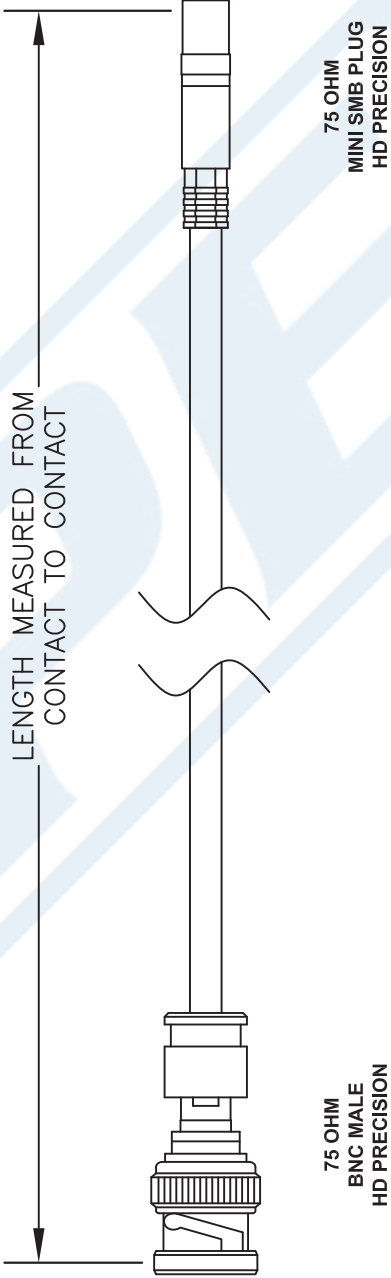
1. Replace ZZ with color codes.
2. Replace XX with length in inches.

Standard Lengths

-12	12"
-24	24"
-36	36"
-48	48"
-60	60"
-XX	Custom Length in inches

Color Codes

BK	Black
BL	Blue
GR	Green
RD	Red
WH	White
YW	Yellow



DWG TITLE

PE38040/ZZ-XX

- 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.

REV. C

FSCM NO. 53919

CAD FILE 082411

SCALE N/A

SIZE A

2231

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