



75 Ohm Mini SMB Plug to 75 Ohm BNC Male Cable 36 Inch  
Length Using 75 Ohm PE-B159-YW Yellow Coax

## RF Cable Assemblies Technical Data Sheet

**PE38040/YW-36**

### 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/YW-36 75 ohm Mini SMB plug to 75 ohm BNC male 36 inch cable using 75 ohm PE-B159-YW 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/YW-36 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 36 Inch Length Using 75 Ohm PE-B159-YW Yellow Coax PE38040/YW-36](#)



75 Ohm Mini SMB Plug to 75 Ohm BNC Male Cable 36 Inch  
Length Using 75 Ohm PE-B159-YW Yellow Coax

## RF Cable Assemblies Technical Data Sheet

**PE38040/YW-36**

### 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 | 0.57 in [14.48 mm]   |
| Weight   | 0.1037 lbs [47.04 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, Yellow         |
| 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 36 Inch Length Using 75 Ohm PE-B159-YW Yellow Coax PE38040/YW-36](#)



75 Ohm Mini SMB Plug to 75 Ohm BNC Male Cable 36 Inch  
Length Using 75 Ohm PE-B159-YW Yellow Coax

## RF Cable Assemblies Technical Data Sheet

**PE38040/YW-36**

### 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 36 Inch Length Using 75 Ohm PE-B159-YW Yellow Coax PE38040/YW-36](#)



75 Ohm Mini SMB Plug to 75 Ohm BNC Male Cable 36 Inch  
Length Using 75 Ohm PE-B159-YW Yellow Coax

## RF Cable Assemblies Technical Data Sheet

**PE38040/YW-36**

### How to Order

Part Number Configuration:

**PE38040/YW - xx**

**uu**

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

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

75 Ohm Mini SMB Plug to 75 Ohm BNC Male Cable 36 Inch Length Using 75 Ohm PE-B159-YW Yellow 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.

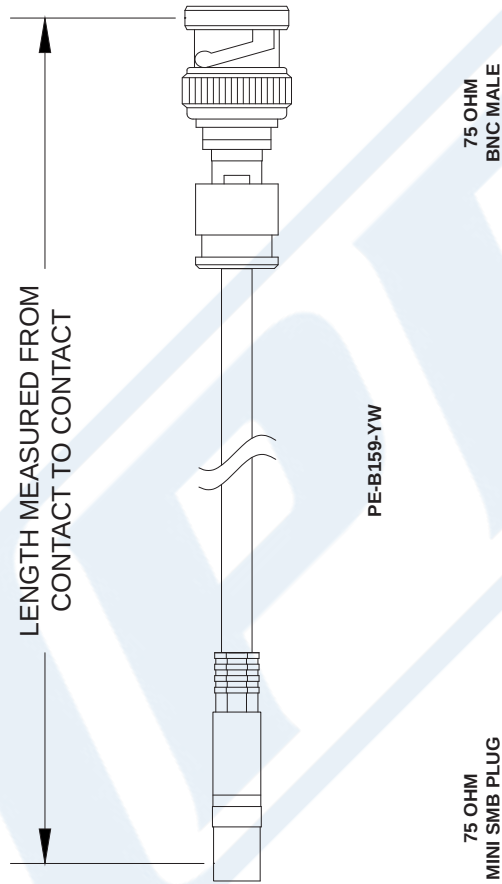
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [75 Ohm Mini SMB Plug to 75 Ohm BNC Male Cable 36 Inch Length Using 75 Ohm PE-B159-YW Yellow Coax PE38040/YW-36](#)

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

# PE38040/YW-36 CAD Drawing

75 Ohm Mini SMB Plug to 75 Ohm BNC Male Cable 36 Inch  
Length Using 75 Ohm PE-B159-YW Yellow Coax



| How To Order                       |      |                     |                       |
|------------------------------------|------|---------------------|-----------------------|
| Part Number Configuration          |      | Examples            |                       |
| PE3                                | zzz  | yy                  | - xx uu               |
| 00 - 99999                         |      | LF = RoHS Compliant |                       |
| < Blank                            |      | > = Standard        |                       |
| Note: LF applies only to RF cables |      | CM = Centimeters    |                       |
|                                    |      | < Blank             |                       |
|                                    |      | > = Inches          |                       |
|                                    |      | Length              |                       |
| Part #                             | Ext. | Length In Inches    | Length In Centimeters |
| -12                                |      | 12"                 | 25Cm                  |
| -24                                |      | 24"                 | 50Cm                  |
| -36                                |      | 36"                 | 75Cm                  |
| -48                                |      | 48"                 | 100Cm                 |
| -60                                |      | 60"                 | 125Cm                 |
| -xx                                |      | Custom Length       | 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  $\pm 1.5\%$  OR  $3/8"$ , WHICHEVER IS GREATER.

DWG TITLE  
**PE38040-YW**

**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

FSCM NO. 53919

CAD FILE 41613

SCALE N/A

SIZE A