

## BNC Male to Reverse Polarity SMA Plug Low Loss Cable Using LMR-195 Coax



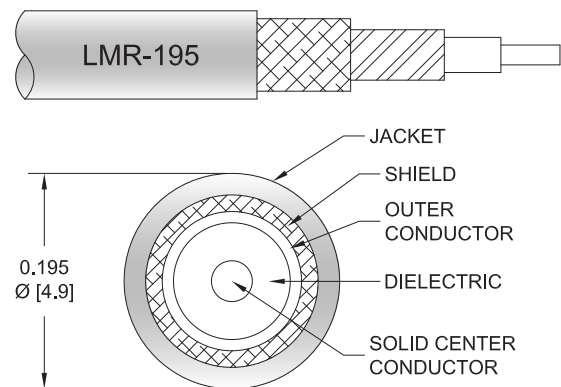
### PE3C9376

#### Configuration

- Connector 1: BNC Male
- Connector 2: SMA Plug Reverse Polarity
- Cable Type: LMR-195
- Coax Flex Type: Flexible

#### Features

- Max Frequency 4 GHz
- Shielding Effectivity > 90 dB
- 80% Phase Velocity
- Double Shielded
- PE Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3C9376 BNC male to reverse polarity SMA plug cable using LMR-195 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 reverse polarity SMA cable assembly has a male to plug gender configuration with 50 ohm flexible LMR-195 coax. The PE3C9376 BNC male to reverse polarity SMA plug cable assembly operates to 4 GHz. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness of better than 90 dB.

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.

#### Electrical Specifications

| Description                   | Minimum | Typical      | Maximum | Units                 |
|-------------------------------|---------|--------------|---------|-----------------------|
| Frequency Range               | DC      |              | 4       | GHz                   |
| VSWR                          |         |              | 1.4:1   |                       |
| Velocity of Propagation       |         | 80           |         | %                     |
| RF Shielding                  | 90      |              |         | dB                    |
| Group Delay                   |         | 1.27 [4.17]  |         | ns/ft [ns/m]          |
| Capacitance                   |         | 25.4 [83.33] |         | pF/ft [pF/m]          |
| Inductance                    |         | 0.064 [0.21] |         | uH/ft [uH/m]          |
| DC Resistance Inner Conductor |         | 7.6 [24.93]  |         | Ohms/1000ft [Ohms/Km] |
| DC Resistance Outer Conductor |         | 4.9 [16.08]  |         | Ohms/1000ft [Ohms/Km] |

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#### Electrical Specifications

| Description  | Minimum | Typical | Maximum | Units |
|--------------|---------|---------|---------|-------|
| Jacket Spark |         |         | 3,000   | Vrms  |

#### Specifications by Frequency

| Part Number | Length                   | Description           | F1        | F2    | F3    | F4    | F5    | Units | Weight (lbs) |
|-------------|--------------------------|-----------------------|-----------|-------|-------|-------|-------|-------|--------------|
|             |                          |                       | Frequency |       |       |       |       | MHz   |              |
| PE3C9376    | Custom Lengths Available | Insertion Loss (Typ.) | 0.034     | 0.057 | 0.081 | 0.116 | 0.236 | dB/ft |              |
|             |                          |                       | 0.12      | 0.19  | 0.27  | 0.39  | 0.78  | dB/m  |              |
| PE3C9376-12 | 12 In                    | Insertion Loss (Typ.) | 0.24      | 0.26  | 0.29  | 0.32  | 0.44  | dB    | 0.061        |
| PE3C9376-24 | 24 In                    | Insertion Loss (Typ.) | 0.27      | 0.32  | 0.37  | 0.44  | 0.68  | dB    | 0.084        |
| PE3C9376-36 | 36 In                    | Insertion Loss (Typ.) | 0.31      | 0.38  | 0.45  | 0.55  | 0.91  | dB    | 0.106        |
| PE3C9376-48 | 48 In                    | Insertion Loss (Typ.) | 0.34      | 0.43  | 0.53  | 0.67  | 1.15  | dB    | 0.128        |
| PE3C9376-60 | 60 In                    | Insertion Loss (Typ.) | 0.37      | 0.49  | 0.61  | 0.78  | 1.38  | dB    | 0.15         |

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

|                             |                |
|-----------------------------|----------------|
| Loss due to Connector 1:    | 0.1 dB         |
| Loss due to Connector 2:    | 0.1 dB         |
| Base Weight:                | 0.061 pounds   |
| Additional Weight per Inch: | 0.00184 pounds |

#### Mechanical Specifications

##### Cable Assembly

|                |                     |
|----------------|---------------------|
| Width/Diameter | 0.5 in [12.7 mm]    |
| Weight         | 0.061 lbs [27.67 g] |

##### Cable

|                                      |                        |
|--------------------------------------|------------------------|
| Cable Type                           | LMR-195                |
| Impedance                            | 50 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                      | PE, Black              |
| Jacket Diameter                      | 0.195 in [4.95 mm]     |
| One Time Minimum Bend Radius         | 0.5 in [12.7 mm]       |
| Repeated Minimum Bend Radius         | 2 in [50.8 mm]         |
| Bending Moment                       | 0.2 lbs-ft [0.27 N-m]  |
| Flat Plate Crush                     | 15 lbs/in [0.27 Kg/mm] |
| Tensile Strength                     | 40 lbs [18.14 Kg]      |

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#### Connectors

| Description                        | Connector 1    | Connector 2               |
|------------------------------------|----------------|---------------------------|
| Type                               | BNC Male       | SMA Plug Reverse Polarity |
| Specification                      | MIL-STD-348A   |                           |
| Impedance                          | 50 Ohms        | 50 Ohms                   |
| Configuration                      | Straight       | Straight                  |
| Contact Material and Plating       | Brass, Gold    | Beryllium Copper, Gold    |
| Contact Plating Specification      | 30 µin minimum | QQ-C-530                  |
| Dielectric Type                    | PTFE           | Teflon                    |
| Body Material and Plating          | Brass, Nickel  | Brass, Nickel             |
| Body Plating Specification         | 90 µin minimum | QQ-B-626                  |
| Coupling Nut Material and Plating  | Brass, Nickel  | Brass, Nickel             |
| Coupling Nut Plating Specification |                | QQ-B-626                  |

#### Environmental Specifications

Operating Range Temperature -40 to +85 deg C

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

#### Plotted and Other Data

Notes:

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### PE3C9376

#### Typical Performance Data

#### How to Order

Part Number Configuration:

**PE3C9376**

**- xx**

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

Example: PE3C9376-12 = 12 inches long cable  
PE3C9376-100cm = 100 cm long cable

BNC Male to Reverse Polarity SMA Plug Low Loss Cable Using LMR-195 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: [BNC Male to Reverse Polarity SMA Plug Low Loss Cable Using LMR-195 Coax PE3C9376](#)

URL: <https://www.pasternack.com/bnc-male-to-reverse-polarity-sma-plug-low-loss-cable-using-lmr-195-pe3c9376-p.aspx>

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# PE3C9376 CAD Drawing

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