

## BNC Twinax Plug to BNC Twinax Plug Cable Using 78 Ohm RG108 Coax with HeatShrink



### PE3480/HS

#### Configuration

- Connector 1: BNC Twinax Plug
- Connector 2: BNC Twinax Plug
- Cable Type: RG108
- Coax Flex Type: Flexible

#### Features

- Max Frequency 500 MHz
- 66% Phase Velocity
- PVC Jacket

#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3480/HS 78 ohm BNC Twinax plug to 78 ohm BNC Twinax plug cable using 78 ohm RG108 twinax 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 Twinax to BNC Twinax cable assembly has a plug to plug gender configuration with 78 ohm flexible RG108 twinax. The PE3480/HS BNC Twinax plug to BNC Twinax plug cable assembly operates to 500 MHz.

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      |              | 500     | MHz          |
| VSWR                    |         |              | 1.4:1   |              |
| Velocity of Propagation |         | 66           |         | %            |
| Capacitance             |         | 19.7 [64.63] |         | pF/ft [pF/m] |
| Operating Voltage (AC)  |         |              | 500     | Vrms         |

#### Specifications by Frequency

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| Part Number   | Length                   | Description           | F1        | F2   | F3    | F4    | Units | Weight (lbs) |
|---------------|--------------------------|-----------------------|-----------|------|-------|-------|-------|--------------|
|               |                          |                       | Frequency | 50   | 100   | 250   | 500   |              |
| PE3480/HS     | Custom Lengths Available | Insertion Loss (Typ.) | 0.056     | 0.09 | 0.151 | 0.217 | dB/ft |              |
|               |                          |                       | 0.19      | 0.3  | 0.5   | 0.72  | dB/m  |              |
| PE3480/HS-18  | 18 In                    | Insertion Loss (Typ.) | 0.29      | 0.34 | 0.43  | 0.53  | dB    | 0.144        |
| PE3480/HS-36  | 36 In                    | Insertion Loss (Typ.) | 0.37      | 0.47 | 0.66  | 0.86  | dB    | 0.198        |
| PE3480/HS-60  | 60 In                    | Insertion Loss (Typ.) | 0.48      | 0.65 | 0.96  | 1.29  | dB    | 0.27         |
| PE3480/HS-120 | 120 In                   | Insertion Loss (Typ.) | 0.76      | 1.1  | 1.71  | 2.37  | dB    | 0.45         |
| PE3480/HS-300 | 300 In                   | Insertion Loss (Typ.) | 1.6       | 2.45 | 3.98  | 5.63  | dB    | 0.99         |

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:                | 0.126 pounds |
| Additional Weight per Inch: | 0.003 pounds |

**Mechanical Specifications**

**Cable Assembly**

|                |                     |
|----------------|---------------------|
| Width/Diameter | 0.5 in [12.7 mm]    |
| Weight         | 0.128 lbs [58.06 g] |

**Cable**

|                                      |                     |
|--------------------------------------|---------------------|
| Cable Type                           | RG108               |
| Impedance                            | 78 Ohms             |
| Inner Conductor Type                 | Stranded            |
| Inner Conductor Material and Plating | Copper, Tin         |
| Dielectric Type                      | PE (LD)             |
| Number of Shields                    | 1                   |
| Shield Layer 1                       | Tinned Copper Braid |
| Jacket Material                      | PVC, Black          |
| Jacket Diameter                      | 0.235 in [5.97 mm]  |

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**Connectors**

| Description                        | Connector 1                  | Connector 2                  |
|------------------------------------|------------------------------|------------------------------|
| Type                               | BNC Twinax Plug              | BNC Twinax Plug              |
| Specification                      | MIL-STD-348A                 | MIL-STD-348A                 |
| Impedance                          | 78 Ohms                      | 78 Ohms                      |
| Configuration                      | Straight                     | Straight                     |
| Contact Material and Plating       | Brass/Beryllium Copper, Gold | Brass/Beryllium Copper, Gold |
| Contact Plating Specification      | 30 µin minimum               | 30 µin minimum               |
| Dielectric Type                    | PTFE                         | PTFE                         |
| Body Material and Plating          | Brass, Nickel                | Brass, Nickel                |
| Body Plating Specification         | 100 µin minimum              | 100 µin minimum              |
| Coupling Nut Material and Plating  | Brass, Nickel                | Brass, Nickel                |
| Coupling Nut Plating Specification | 100 µin minimum              | 100 µin minimum              |
| Seal Gasket Material               | Silicone                     | Silicone                     |

**Environmental Specifications**

Operating Range Temperature -40 to +80 deg C

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

**Plotted and Other Data**

Notes:

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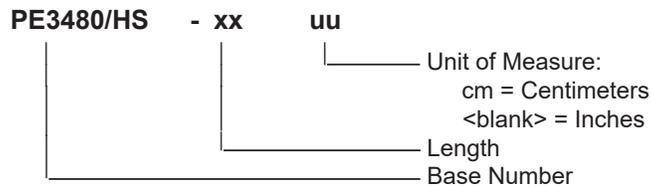


### PE3480/HS

#### Typical Performance Data

#### How to Order

Part Number Configuration:



Example: PE3480/HS-12 = 12 inches long cable  
PE3480/HS-100cm = 100 cm long cable

BNC Twinax Plug to BNC Twinax Plug Cable Using 78 Ohm RG108 Coax with HeatShrink 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 Twinax Plug to BNC Twinax Plug Cable Using 78 Ohm RG108 Coax with HeatShrink PE3480/HS](#)

URL: <https://www.pasternack.com/bnc-twinax-plug-to-bnc-twinax-plug-cable-using-rg108-with-heatshrink-pe3480-hs-p.aspx>

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# PE3480/HS CAD Drawing

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