

75 Ohm BNC Male to 75 Ohm BNC Female Cable Using 75 Ohm RG179 Coax with HeatShrink



PE33443/HS

Configuration

- Connector 1: BNC Male
- Connector 2: BNC Female
- Cable Type: RG179
- Coax Flex Type: Flexible

Features

- Max Frequency 1 GHz
- FEP Jacket

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE33443/HS 75 ohm BNC male to 75 ohm BNC female cable using 75 ohm RG179 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 BNC cable assembly has a male to female gender configuration with 75 ohm flexible RG179 coax. The PE33443/HS BNC male to BNC female cable assembly operates to 1 GHz.

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 | | 1,000 | MHz |
| VSWR | | | 1.4:1 | |
| Capacitance | | 23 [75.46] | | 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 | | 100 | 250 | 500 | |
| PE33443/HS | Custom Lengths Available | Insertion Loss (Typ.) | 0.09 | 0.137 | 0.203 | 0.3 | dB/ft | |
| | | | 0.3 | 0.45 | 0.67 | 0.99 | dB/m | |
| PE33443/HS-12 | 12 inch | Insertion Loss (Typ.) | 0.29 | 0.34 | 0.41 | 0.5 | dB | 0.058 |
| PE33443/HS-24 | 24 inch | Insertion Loss (Typ.) | 0.38 | 0.48 | 0.61 | 0.8 | dB | 0.067 |
| PE33443/HS-36 | 36 inch | Insertion Loss (Typ.) | 0.47 | 0.62 | 0.81 | 1.1 | dB | 0.076 |
| PE33443/HS-48 | 48 inch | Insertion Loss (Typ.) | 0.56 | 0.75 | 1.02 | 1.4 | dB | 0.085 |
| PE33443/HS-72 | 72 inch | Insertion Loss (Typ.) | 0.74 | 1.03 | 1.42 | 2 | dB | 0.103 |

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: 0.058 pounds
 Additional Weight per Inch: 0.00075 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter 0.5 in [12.7 mm]
 Weight 0.047 lbs [21.32 g]

Cable

Cable Type RG179
 Impedance 75 Ohms
 Inner Conductor Type Stranded
 Inner Conductor Material and Plating Copper Clad Steel, Silver
 Dielectric Type PTFE
 Number of Shields 1
 Shield Layer 1 Silver Plated Copper Braid
 Jacket Material FEP, Tan
 Jacket Diameter 0.1 in [2.54 mm]

Connectors

| Description | Connector 1 | Connector 2 |
|-------------------------------|------------------|------------------|
| Type | BNC Male | BNC Female |
| Impedance | 75 Ohms | 75 Ohms |
| Configuration | Straight | Straight |
| Contact Material and Plating | Brass, Gold | Brass, Gold |
| Contact Plating Specification | 30µ in. minimum | 30µ in. minimum |
| Dielectric Type | Teflon | Teflon |
| Body Material and Plating | Brass, Nickel | Brass, Nickel |
| Body Plating Specification | 100µ in. minimum | 100µ in. minimum |

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Environmental Specifications

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

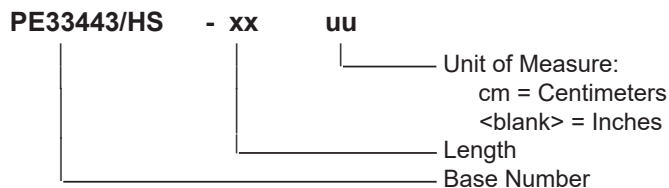
Plotted and Other Data

Notes:

Typical Performance Data

How to Order

Part Number Configuration:



Example: PE33443/HS-12 = 12 inches long cable
PE33443/HS-100cm = 100 cm long cable

75 Ohm BNC Male to 75 Ohm BNC Female Cable Using 75 Ohm RG179 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.

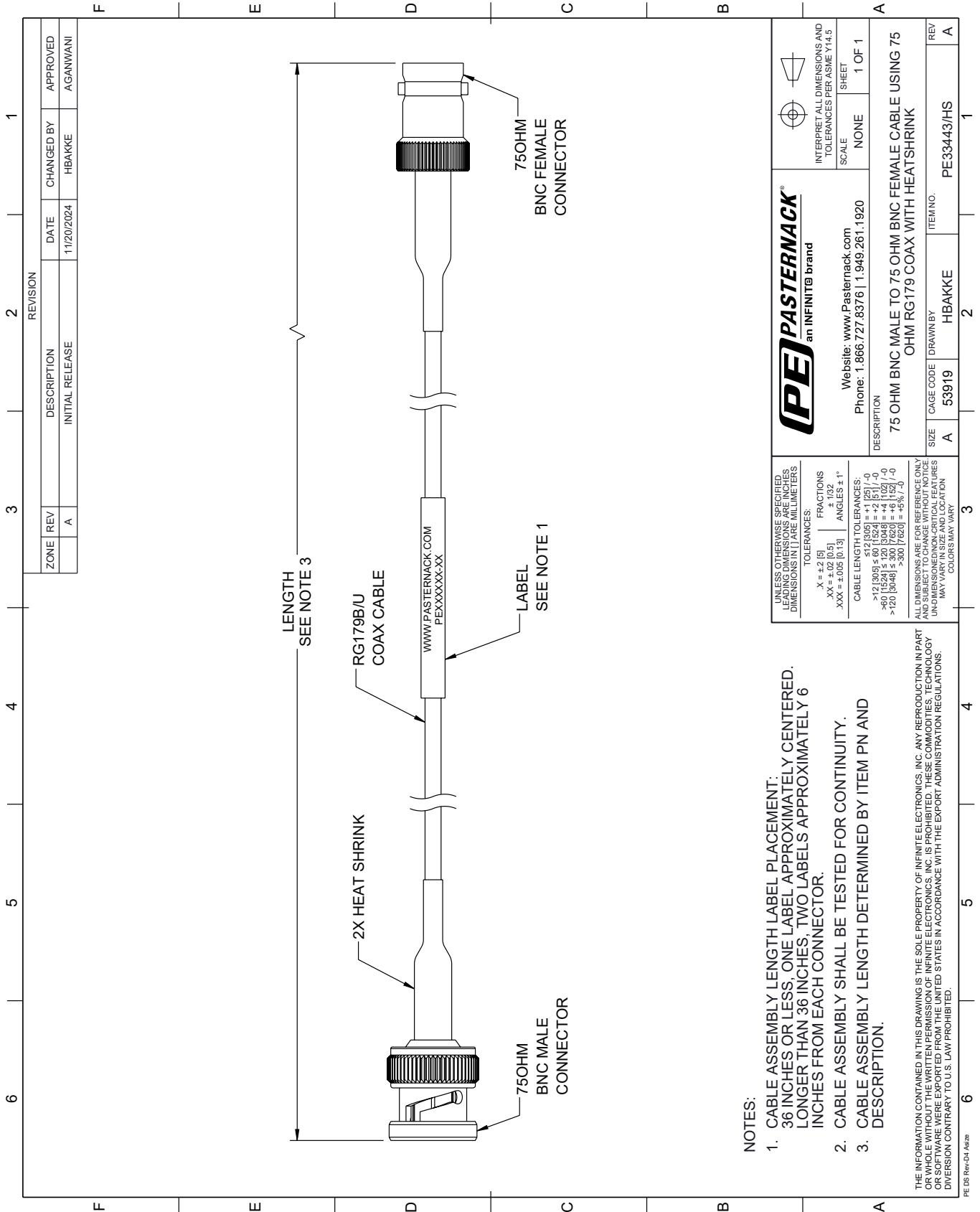
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [75 Ohm BNC Male to 75 Ohm BNC Female Cable Using 75 Ohm RG179 Coax with HeatShrink PE33443/HS](#)

URL: <https://www.pasternack.com/75-ohm-bnc-male-to-75-ohm-bnc-female-cable-using-rg179-with-heatshrink-pe33443-hs-p.aspx>

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PE33443/HS CAD Drawing

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NOTES:

1. CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.
2. CABLE ASSEMBLY SHALL BE TESTED FOR CONTINUITY.
3. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.

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PE DS Rev-04 Add2

| REVISION | | DATE | CHANGED BY | APPROVED |
|-----------------|-----|------------|------------|----------|
| ZONE | REV | | | |
| | A | 11/20/2024 | HBAKKE | AGANWANI |
| DESCRIPTION | | | | |
| INITIAL RELEASE | | | | |

| | | | |
|---|-----------|--|------------|
| <p>PASTERNAK an INFINIT[®] brand</p> | | | |
| | | INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE NONE SHEET 1 OF 1 | |
| Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920 | | | |
| DESCRIPTION 75 OHM BNC MALE TO 75 OHM BNC FEMALE CABLE USING 75 OHM RG179 COAX WITH HEATSHRINK | | | |
| SIZE | CAGE CODE | DRAWN BY | ITEM NO. |
| A | 53919 | HBAKKE | PE33443/HS |
| REV | | | A |

UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES, DIMENSIONS IN [] ARE MILLIMETERS.

TOLERANCES:
 .X = ±.2 [5]
 .XX = ±.02 [0.5]
 .XXX = ±.005 [0.13]
 FRACTIONS ± 1/32
 ANGLES ± 1°

CABLE LENGTH TOLERANCES:
 >12 [305] ≤ 60 [1524] = ±.1 [25] / -0
 >60 [1524] ≤ 120 [3048] = ±.4 [102] / -0
 >120 [3048] ≤ 300 [7620] = ±.6 [15] / -0
 >300 [7620] = ±.6 [15] / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNDIMENSIONED/NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.