

BNC Twinax Plug to BNC Twinax Plug Cable 120 Inch Length Using 78 Ohm RG108 Coax with HeatShrink



PE3480/HS-120

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-120 78 ohm BNC Twinax plug to 78 ohm BNC Twinax plug 120 inch 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-120 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	MHz	
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

Length	120 in [304.8 cm]
Width/Diameter	0.5 in [12.7 mm]
Weight	0.45 lbs [204.12 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-120

Typical Performance Data

How to Order

Part Number Configuration:

PE3480/HS - xx uu

Unit of Measure:
cm = Centimeters
<blank> = Inches

Length

Base Number

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

BNC Twinax Plug to BNC Twinax Plug Cable 120 Inch Length 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 120 Inch Length Using 78 Ohm RG108 Coax with HeatShrink PE3480/HS-120](#)

URL: <https://www.pasternack.com/bnc-twinax-plug-to-bnc-twinax-plug-cable-120-inch-length-using-rg108-with-heatshrink-pe3480-hs-120-p.aspx>

The information contained within 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 Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PE3480/HS-120 CAD Drawing

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