



BNC Male to BNC Male Low Loss Cable Using LMR-200 Coax with Times Microwave Components with HeatShrink

TECHNICAL DATA SHEET

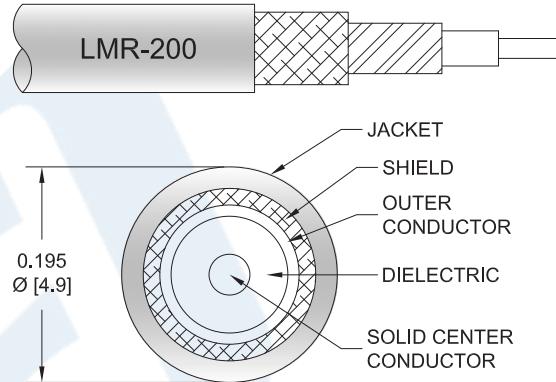
PE3C0221/HS

Configuration

- Connector 1: BNC Male
- Connector 2: BNC Male
- Cable Type: LMR-200
- Coax Flex Type: Flexible

Features

- Max Frequency 4 GHz
- Shielding Effectivity > 90 dB
- 83% Phase Velocity
- Double Shielded
- PE Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C0221/HS BNC male to BNC male cable using LMR-200 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 male gender configuration with 50 ohm flexible LMR-200 coax. The PE3C0221/HS BNC male to BNC male 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.

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 BNC Male Low Loss Cable Using LMR-200 Coax with Times Microwave Components with HeatShrink PE3C0221/HS](#)



BNC Male to BNC Male Low Loss Cable Using LMR-200 Coax with Times Microwave Components with HeatShrink

TECHNICAL DATA SHEET

PE3C0221/HS

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		4	GHz
VSWR			1.4:1	
Velocity of Propagation		83		%
RF Shielding	90			dB
Group Delay		1.22 [4]		ns/ft [ns/m]
Capacitance		24.5 [80.38]		pF/ft [pF/m]
Inductance		0.061 [0.2]		uH/ft [uH/m]
DC Resistance Inner Conductor		5.36 [17.59]		Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor		4.9 [16.08]		Ω/1000ft [Ω/Km]
Jacket Spark			3,000	Vrms

Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency	250	500	1000	2500	4000	MHz
PE3C0221/HS	Custom Lengths Available	Insertion Loss (Typ.)	0.05	0.07	0.1	0.16	0.2	dB/ft	
			0.17	0.24	0.33	0.53	0.66	dB/m	
PE3C0221/HS-24	24 inch	Insertion Loss (Typ.)	0.3	0.35	0.4	0.52	0.6	dB	0.112
PE3C0221/HS-36	36 inch	Insertion Loss (Typ.)	0.35	0.42	0.5	0.68	0.8	dB	0.136
PE3C0221/HS-48	48 inch	Insertion Loss (Typ.)	0.4	0.5	0.6	0.84	1	dB	0.16
PE3C0221/HS-60	60 inch	Insertion Loss (Typ.)	0.45	0.57	0.7	1	1.2	dB	0.184
PE3C0221/HS-72	72 inch	Insertion Loss (Typ.)	0.5	0.64	0.8	1.16	1.4	dB	0.208

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: 0.049 pounds

Additional Weight per Inch: 0.00184 pounds

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

Mechanical Specifications

Cable Assembly

Weight 0.088 lbs [39.92 g]

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 BNC Male Low Loss Cable Using LMR-200 Coax with Times Microwave Components with HeatShrink PE3C0221/HS](#)



BNC Male to BNC Male Low Loss Cable Using LMR-200 Coax with Times Microwave Components with HeatShrink

TECHNICAL DATA SHEET

PE3C0221/HS

Cable

Cable Type	LMR-200
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]

Connectors

Description	Connector 1	Connector 2
Type	BNC Male Bayonet	BNC Male Bayonet
Specification	MIL-STD-348	MIL-STD-348
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Brass, Gold
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal

Environmental Specifications

Temperature

Operating Range

-40 to +85 deg C

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

Plotted and Other Data

Notes:

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 BNC Male Low Loss Cable Using LMR-200 Coax with Times Microwave Components with HeatShrink PE3C0221/HS](#)



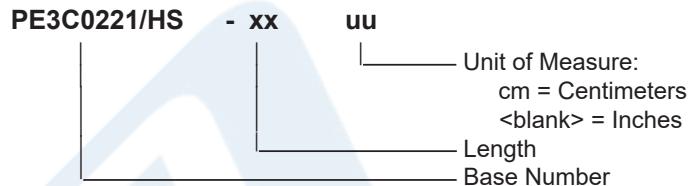
BNC Male to BNC Male Low Loss Cable Using LMR-200 Coax with Times Microwave Components with HeatShrink

TECHNICAL DATA SHEET

PE3C0221/HS

How to Order

Part Number Configuration:



Example: PE3C0221/HS-12 = 12 inches long cable
PE3C0221/HS-100cm = 100 cm long cable

BNC Male to BNC Male Low Loss Cable Using LMR-200 Coax with Times Microwave Components 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 Male to BNC Male Low Loss Cable Using LMR-200 Coax with Times Microwave Components with HeatShrink PE3C0221/HS](#)

URL: <https://www.pasternack.com/bnc-male-to-bnc-male-low-loss-cable-using-lmr-200-with-heatshrink-pe3c0221-hs-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.

PE3C0221/HS CAD Drawing

BNC Male to BNC Male Low Loss Cable Using LMR-200 Coax with Times Microwave Components with HeatShrink

