

BNC Male to SMA Male Low Loss Cable
Using PE-C195 Coax with HeatShrink



RF Cable Assemblies Technical Data Sheet

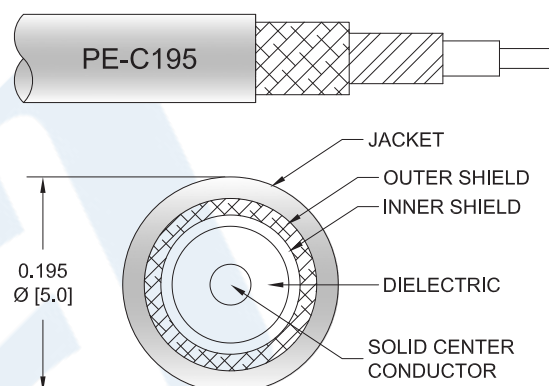
PE37249/HS

Configuration

- Connector 1: BNC Male
- Connector 2: SMA Male
- Cable Type: PE-C195

Features

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



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE37249/HS BNC male to SMA male cable using PE-C195 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 SMA cable assembly has a male to male gender configuration with 50 ohm flexible PE-C195 coax. The PE37249/HS BNC male to SMA 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 SMA Male Low Loss Cable Using PE-C195 Coax with HeatShrink PE37249/HS](#)



BNC Male to SMA Male Low Loss Cable Using PE-C195 Coax with HeatShrink

RF Cable Assemblies Technical Data Sheet

PE37249/HS

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		4	GHz
VSWR			1.4:1	
Velocity of Propagation		80		%
RF Shielding	90			dB
Capacitance		25.4 [83.33]		pF/ft [pF/m]
Jacket Spark			5,000	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	4		GHz
Insertion Loss (Typ.)	0.057	0.081	0.116	0.239		dB/ft
	0.19	0.27	0.38	0.78		dB/m

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 0.064 lbs [29.03 g]

Cable

Cable Type PE-C195
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]

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 SMA Male Low Loss Cable Using PE-C195 Coax with HeatShrink PE37249/HS](#)



BNC Male to SMA Male Low Loss Cable
Using PE-C195 Coax with HeatShrink

RF Cable Assemblies Technical Data Sheet

PE37249/HS

Connectors

Description	Connector 1	Connector 2
Type	BNC Male	SMA Male
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	30 µin minimum	50 µin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	90 µin minimum	100 µin minimum
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel
Coupling Nut Plating Specification		100 µin minimum
Hex Size		5/16 inch
Torque		3 in-lbs [0.34 Nm]

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 SMA Male Low Loss Cable Using PE-C195 Coax with HeatShrink PE37249/HS](#)



BNC Male to SMA Male Low Loss Cable Using PE-C195 Coax with HeatShrink

RF Cable Assemblies Technical Data Sheet

PE37249/HS

How to Order

Part Number Configuration:

PE37249/HS

- xx

uu

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

Example: PE37249/HS-12 = 12 inches long cable
PE37249/HS-100cm = 100 cm long cable

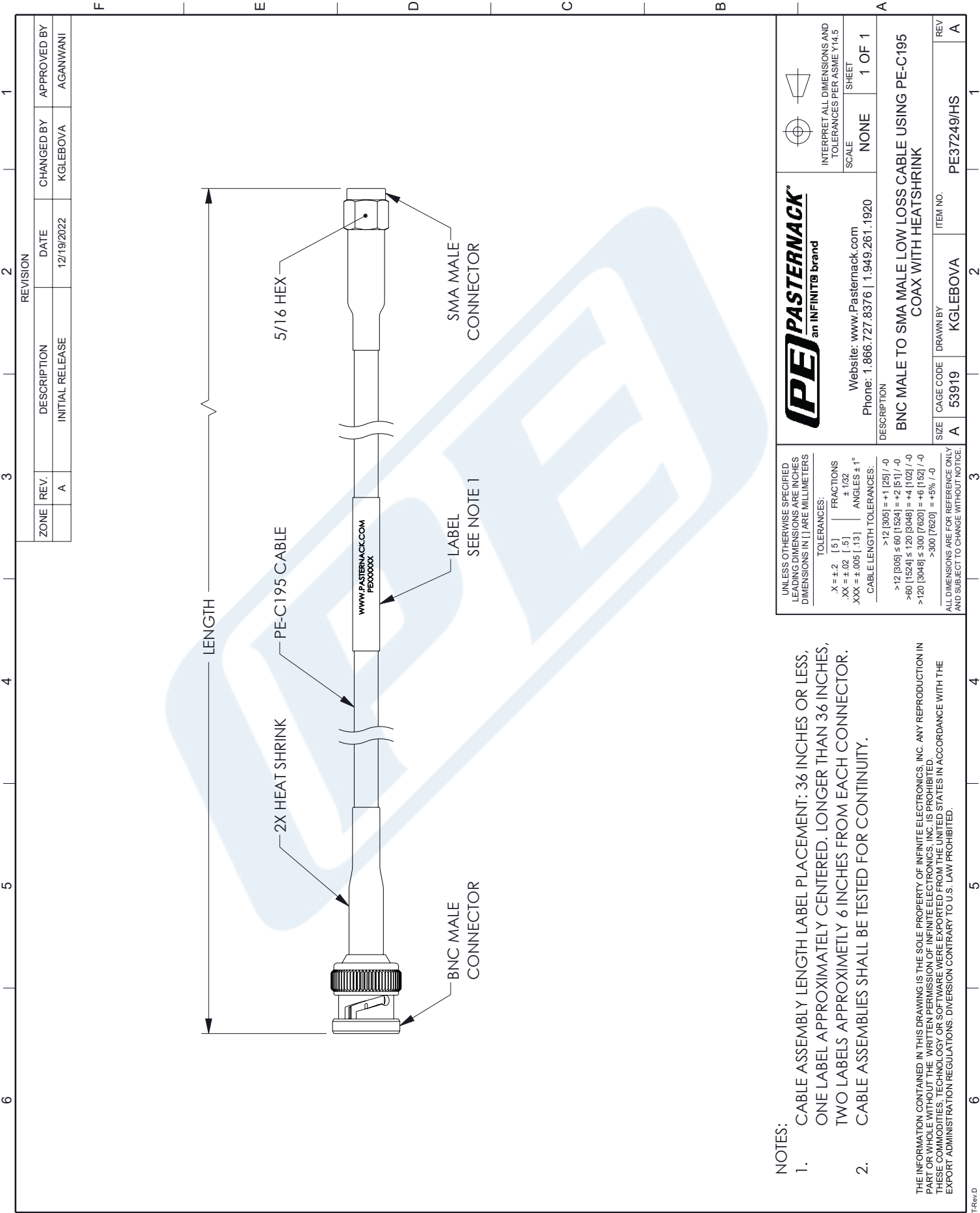
BNC Male to SMA Male Low Loss Cable Using PE-C195 Coax with HeatShrink from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [BNC Male to SMA Male Low Loss Cable Using PE-C195 Coax with HeatShrink PE37249/HS](https://www.pasternack.com/bnc-male-to-sma-male-low-loss-cable-using-pe-c195-with-heatshrink-pe37249-hs-p.aspx)

URL: <https://www.pasternack.com/bnc-male-to-sma-male-low-loss-cable-using-pe-c195-with-heatshrink-pe37249-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.

PE37249/HS CAD Drawing
BNC Male to SMA Male Low Loss Cable Using PE-C195 Coax with HeatShrink



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 ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INFINITE ELECTRONICS, INC. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF INFINITE ELECTRONICS, INC. IS PROHIBITED. THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS	
TOLERANCES:	FRACTIONS
X = ±.2 [.5]	± 1/32
.XX = ±.02 [.5]	± 1/64
XXX = ±.005 [.13]	ANGLES ± 1°
CABLE LENGTH TOLERANCES:	
>12 [305] = +1 [25] / -0	
>12 [305] ≤ 60 [1524] = +2 [51] / -0	
>60 [1524] ≤ 120 [3048] = +4 [102] / -0	
>120 [3048] ≤ 300 [7620] = +6 [152] / -0	
>300 [7620] = +5% / -0	
ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE.	

PE PASTERNAK an INFINITE brand	
Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920	
DESCRIPTION BNC MALE TO SMA MALE LOW LOSS CABLE USING PE-C195 COAX WITH HEATSHRINK	
SIZE A	CAGE CODE A 53919
REV A	ITEM NO. KGLEBOVA
SCALE NONE	
INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SHEET 1 OF 1	