

N Male Right Angle to BNC Male Right Angle Low Loss  
Cable Using LMR-195 Coax with HeatShrink



**RF Cable Assemblies Technical Data Sheet**

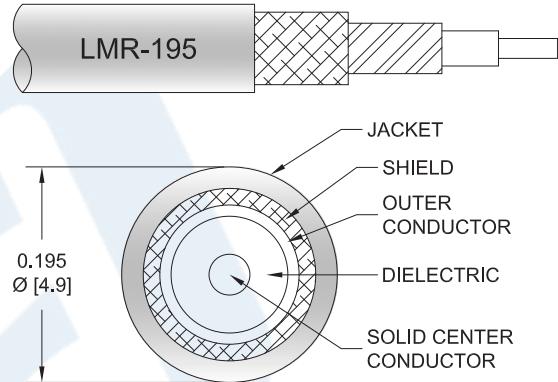
**PE3W08529/HS**

**Configuration**

- Connector 1: N Male Right Angle
- Connector 2: BNC Male Right Angle
- Cable Type: LMR-195

**Features**

- Max Frequency 3 GHz
- Shielding Effectivity > 90 dB
- 80% Phase Velocity
- Double Shielded
- PE Jacket



**Applications**

- General Purpose
- Laboratory Use

**Description**

Pasternack's PE3W08529/HS type N male right angle to BNC male right angle cable using LMR-195 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 type N to BNC cable assembly has a male to male gender configuration with 50 ohm flexible LMR-195 coax. The PE3W08529/HS type N male to BNC male cable assembly operates to 3 GHz. The right angle type N and right angle BNC interfaces on the LMR-195 cable allow for easier connections in tight spaces. 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: [N Male Right Angle to BNC Male Right Angle Low Loss Cable Using LMR-195 Coax with HeatShrink PE3W08529/HS](#)



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**PE3W08529/HS**

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
VSWR			1.4:1	
Velocity of Propagation		80		%
RF Shielding	90			dB
Group Delay		1.27 [4.17]		ns/ft [ns/m]
Capacitance		25.4 [83.33]		pF/ft [pF/m]
Inductance		0.064 [0.21]		uH/ft [uH/m]
DC Resistance Inner Conductor		7.6 [24.93]		Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor		4.9 [16.08]		Ω/1000ft [Ω/Km]
Jacket Spark			3,000	Vrms

#### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Typ.)	0.034	0.057	0.081	0.116	0.206	dB/ft
	0.11	0.19	0.27	0.38	0.68	dB/m

#### Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.2 dB per connector.

#### Mechanical Specifications

##### Cable Assembly

Weight 0.17 lbs [77.11 g]

##### Cable

Cable Type LMR-195  
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]

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# N Male Right Angle to BNC Male Right Angle Low Loss Cable Using LMR-195 Coax with HeatShrink



## RF Cable Assemblies Technical Data Sheet

**PE3W08529/HS**

Repeated Minimum Bend Radius  
Bending Moment  
Flat Plate Crush  
Tensile Strength

2 in [50.8 mm]  
0.2 lbs-ft [0.27 N-m]  
15 lbs/in [0.27 Kg/mm]  
40 lbs [18.14 Kg]

### Connectors

Description	Connector 1	Connector 2
Type	N Male Right Angle	BNC Male Right Angle
Specification		MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Mating Cycles	500	
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	50 $\mu$ in. minimum	30 $\mu$ in minimum
Dielectric Type	Teflon	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Nickel
Body Plating Specification	80 $\mu$ in. minimum	100 $\mu$ in minimum
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Nickel
Coupling Nut Plating Specification	80 $\mu$ in. minimum	100 $\mu$ in minimum

### Environmental Specifications

#### Temperature

Operating Range

-40 to +85 deg C

Shock

MIL-STD-202, Method 204, Condition B

Vibration

MIL-STD-202, Method 213, Condition B

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

### Plotted and Other Data

Notes:

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**PE3W08529/HS**

**How to Order**

Part Number Configuration:

**PE3W08529/HS - xx uu**

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

Example: PE3W08529/HS-12 = 12 inches long cable  
PE3W08529/HS-100cm = 100 cm long cable

N Male Right Angle to BNC Male Right Angle Low Loss Cable Using LMR-195 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.

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URL: <https://www.pasternack.com/n-male-right-angle-to-bnc-male-low-loss-cable-using-lmr-195-with-heatshrink-pe3w08529-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.

# PE3W08529/HS CAD Drawing

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