

## N Female Bulkhead to SMA Male Right Angle Low Loss Cable Using LMR-200 Coax with HeatShrink



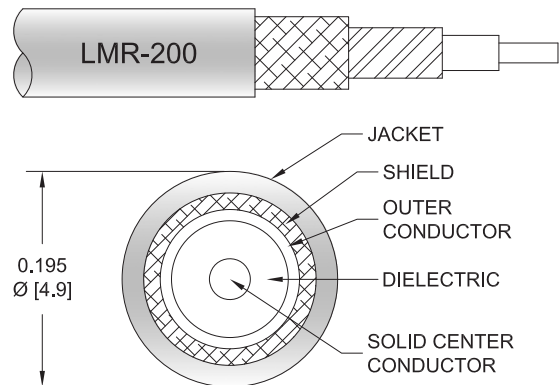
### PE3W04553/HS

#### Configuration

- Connector 1: N Female Bulkhead
- Connector 2: SMA Male Right Angle
- Cable Type: LMR-200
- Coax Flex Type: Flexible

#### Features

- Max Frequency 3 GHz
- Shielding Effectivity > 90 dB
- 83% Phase Velocity
- Double Shielded
- PE Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W04553/HS type N female bulkhead to SMA male right angle 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 type N to SMA cable assembly has a female to male gender configuration with 50 ohm flexible LMR-200 coax. The PE3W04553/HS type N female to SMA male cable assembly operates to 3 GHz. The right angle SMA interface on the LMR-200 cable allows for easier connections in tight spaces. Our RF cable assembly with type N bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications. 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.

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	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]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		4.9 [16.08]		Ohms/1000ft [Ohms/Km]

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#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Jacket Spark			3,000	Vrms

#### Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency					MHz	
PE3W04553/HS	Custom Lengths Available	Insertion Loss (Typ.)	0.032	0.051	0.073	0.104	0.183	dB/ft	
			0.11	0.17	0.24	0.35	0.61	dB/m	
PE3W04553/HS-24	24 inch	Insertion Loss (Typ.)	0.37	0.41	0.45	0.51	0.67	dB	0.186
PE3W04553/HS-36	36 inch	Insertion Loss (Typ.)	0.4	0.46	0.52	0.62	0.85	dB	0.21
PE3W04553/HS-48	48 inch	Insertion Loss (Typ.)	0.43	0.51	0.6	0.72	1.04	dB	0.234
PE3W04553/HS-60	60 inch	Insertion Loss (Typ.)	0.46	0.56	0.67	0.82	1.22	dB	0.258
PE3W04553/HS-72	72 inch	Insertion Loss (Typ.)	0.5	0.61	0.74	0.93	1.4	dB	0.282

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:	0.2 dB
Base Weight:	0.162 pounds
Additional Weight per Inch:	0.002 pounds

#### Mechanical Specifications

##### Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	lbs [0 g]

##### 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]

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#### Connectors

Description	Connector 1	Connector 2
Type	N Female Bulkhead	SMA Male Right Angle
Specification	IEC 61169-16	
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Right Angle
Mating Cycles	500	
Contact Material and Plating	Copper, Silver	Brass, Gold
Contact Plating Specification	5 µm minimum	
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating	Brass, Tri-Metal	
Outer Conductor Plating Specification	2 µm minimum	
Body Material and Plating		Brass, Gold
Coupling Nut Material and Plating		Brass, Gold
Hex Size	1/2 inch	

#### Environmental Specifications

Operating Range Temperature -40 to +85 deg C

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

#### Plotted and Other Data

Notes:

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### PE3W04553/HS

#### Typical Performance Data

#### How to Order

Part Number Configuration:

**PE3W04553/HS - xx uu**



Example: PE3W04553/HS-12 = 12 inches long cable  
PE3W04553/HS-100cm = 100 cm long cable

N Female Bulkhead to SMA Male Right Angle Low Loss Cable Using LMR-200 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: [N Female Bulkhead to SMA Male Right Angle Low Loss Cable Using LMR-200 Coax with HeatShrink PE3W04553/HS](#)

URL: <https://www.pasternack.com/n-female-bulkhead-to-sma-male-low-loss-cable-using-lmr-200-with-heatshrink-pe3w04553-hs-p.aspx>

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# PE3W04553/HS CAD Drawing

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