

## UHF Male to UHF Male Low Loss Cable Using LMR-195 Coax with HeatShrink



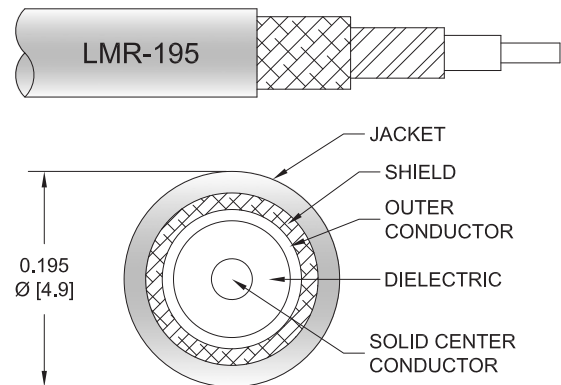
### PE3W00196/HS

#### Configuration

- Connector 1: UHF Male
- Connector 2: UHF Male
- Cable Type: LMR-195
- Coax Flex Type: Flexible

#### Features

- Max Frequency 300 MHz
- Shielding Effectivity > 90 dB
- 80% Phase Velocity
- Double Shielded
- PE Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W00196/HS UHF male to UHF male 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 UHF to UHF cable assembly has a male to male gender configuration with 50 ohm flexible LMR-195 coax. The PE3W00196/HS UHF male to UHF male cable assembly operates to 300 MHz. 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		300	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]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		4.9 [16.08]		Ohms/1000ft [Ohms/Km]
Operating Voltage (AC)			500	Vrms

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**PE3W00196/HS**

**Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Jacket Spark			3,000	Vrms

**Specifications by Frequency**

Part Number	Length	Description	F1	F2	F3	F4	Units	Weight (lbs)
		Frequency	50	100	250	300	MHz	
PE3W00196/HS	Custom Lengths Available	Insertion Loss (Typ.)	0.025	0.035	0.057	0.062	dB/ft	
			0.09	0.12	0.19	0.21	dB/m	
PE3W00196/HS-12	12 In	Insertion Loss (Typ.)	0.23	0.24	0.26	0.27	dB	0.1
PE3W00196/HS-24	24 In	Insertion Loss (Typ.)	0.25	0.27	0.32	0.33	dB	0.123
PE3W00196/HS-36	36 In	Insertion Loss (Typ.)	0.28	0.31	0.38	0.39	dB	0.145
PE3W00196/HS-48	48 In	Insertion Loss (Typ.)	0.3	0.34	0.43	0.45	dB	0.167
PE3W00196/HS-60	60 In	Insertion Loss (Typ.)	0.33	0.38	0.49	0.51	dB	0.189

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:	0.1 pounds
Additional Weight per Inch:	0.00184 pounds

**Mechanical Specifications**

**Cable Assembly**

Width/Diameter	0.5 in [12.7 mm]
Weight	0.078 lbs [35.38 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]
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	UHF Male	UHF Male
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Brass, Gold	Brass, 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

**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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**PE3W00196/HS**

**Typical Performance Data**

**How to Order**

Part Number Configuration:

**PE3W00196/HS - xx uu**



Example: PE3W00196/HS-12 = 12 inches long cable  
PE3W00196/HS-100cm = 100 cm long cable

UHF Male to UHF Male 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [UHF Male to UHF Male Low Loss Cable Using LMR-195 Coax with HeatShrink PE3W00196/HS](https://www.pasternack.com/uhf-male-to-uhf-male-low-loss-cable-using-lmr-195-coax-with-heatshrink-pe3w00196-hs)

URL: <https://www.pasternack.com/uhf-male-to-uhf-male-low-loss-cable-using-lmr-195-with-heatshrink-pe3w00196-hs-p.aspx>

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# PE3W00196/HS CAD Drawing

UHF Male to UHF Male Low Loss Cable Using LMR-195 Coax with HeatShrink

