

## SMA Female Bulkhead to SMA Male Low Loss Cable 36 Inch Length Using LMR-195 Coax with HeatShrink



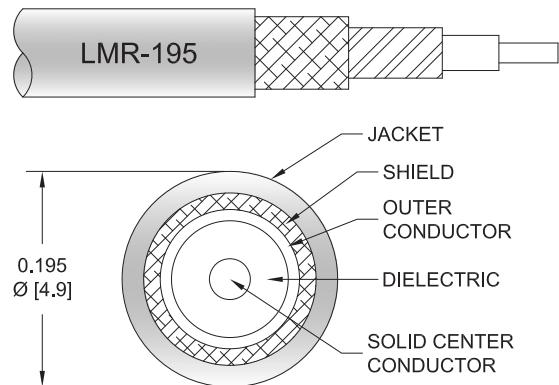
### PE3W05710/HS-36

#### Configuration

- Connector 1: SMA Female Bulkhead
- Connector 2: SMA Male
- Cable Type: LMR-195
- Coax Flex Type: Flexible

#### Features

- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 80% Phase Velocity
- Double Shielded
- PE Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W05710/HS-36 SMA female bulkhead to SMA male 36 inch 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 SMA to SMA cable assembly has a female to male gender configuration with 50 ohm flexible LMR-195 coax. The PE3W05710/HS-36 SMA female to SMA male cable assembly operates to 5.8 GHz. Our RF cable assembly with SMA 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		5.8	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]

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**PE3W05710/HS-36**

**Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Jacket Spark			3,000	Vrms

**Specifications by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	5.8	GHz
Insertion Loss (Typ.)	0.38	0.45	0.55	0.77	1.1	dB

Electrical Specification Notes:

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

**Mechanical Specifications**

**Cable Assembly**

Length	36 in [914.4 mm]
Width/Diameter	0.5 in [12.7 mm]
Weight	0.105 lbs [47.63 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	SMA Female Bulkhead	SMA Male
Specification	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Phosphor Bronze, Gold over Nickel over Copper	Brass, Gold
Contact Plating Specification		ASTM B488
Dielectric Type	Teflon	Teflon
Body Material and Plating	Brass, Gold over Nickel over Copper	Passivated Stainless Steel
Coupling Nut Material and Plating		Passivated Stainless Steel
Hex Size		5/16 Inch

**Environmental Specifications**

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

**Plotted and Other Data**

Notes:

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**PE3W05710/HS-36**

**Typical Performance Data**

**How to Order**

Part Number Configuration:

**PE3W05710/HS - xx uu**



Example: PE3W05710/HS-12 = 12 inches long cable  
PE3W05710/HS-100cm = 100 cm long cable

SMA Female Bulkhead to SMA Male Low Loss Cable 36 Inch Length 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.

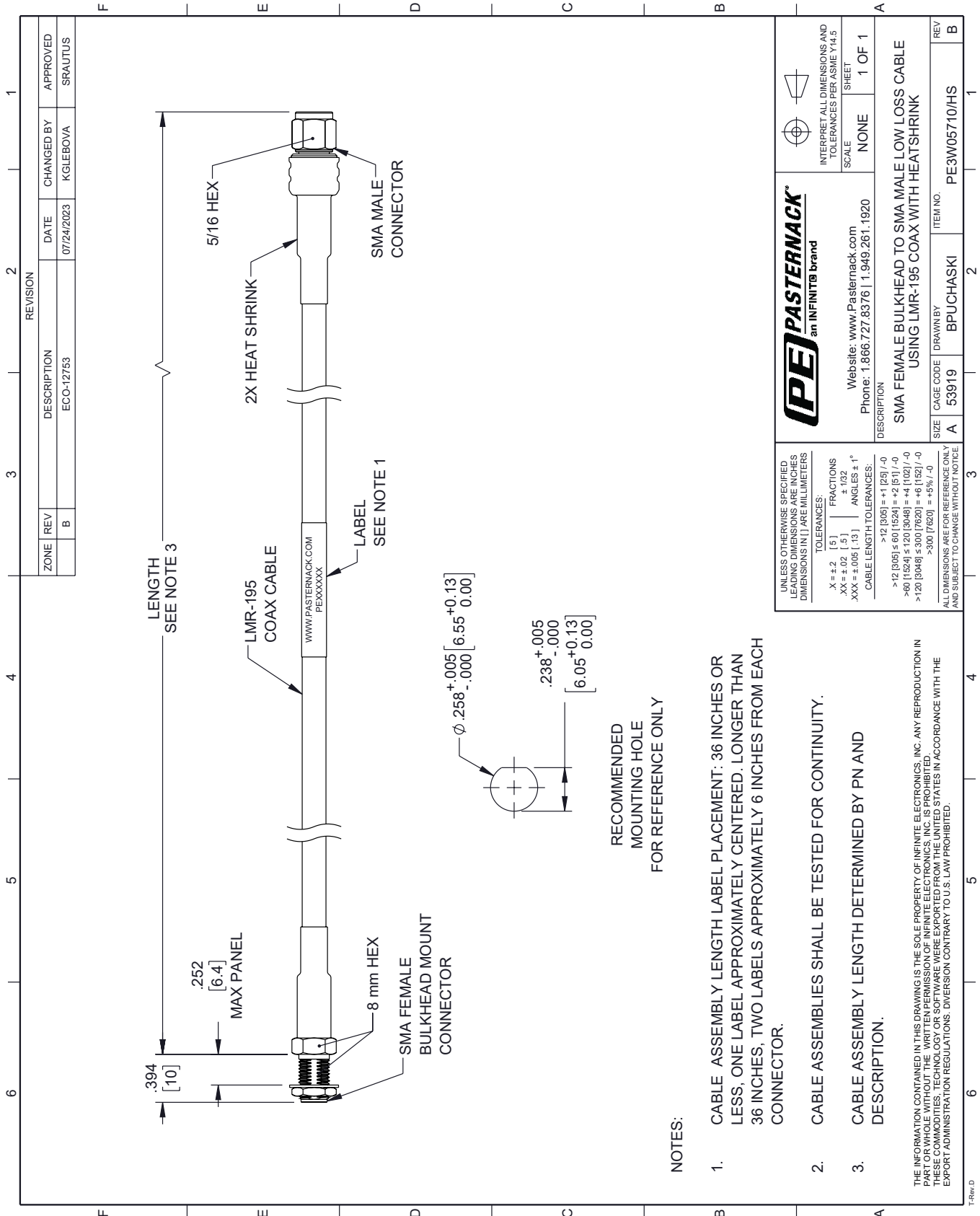
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Female Bulkhead to SMA Male Low Loss Cable 36 Inch Length Using LMR-195 Coax with HeatShrink PE3W05710/HS-36](https://www.pasternack.com/sma-female-bulkhead-to-sma-male-low-loss-cable-36-inch-length-using-lmr-195-coax-with-heatshrink-pe3w05710-hs-36)

URL: <https://www.pasternack.com/sma-female-bulkhead-to-sma-male-low-loss-cable-36-inch-length-using-lmr-195-with-heatshrink-pe3w05710-hs-36-p.aspx>

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# PE3W05710/HS-36 CAD Drawing

SMA Female Bulkhead to SMA Male Low Loss Cable 36 Inch Length Using LMR-195 Coax with HeatShrink



**NOTES:**

1. CABLE ASSEMBLY 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.
3. CABLE ASSEMBLY LENGTH DETERMINED BY PN AND DESCRIPTION.

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