

## SMA Female Bulkhead to SMA Male Low Loss Cable 12 Inch Length Using LMR-195 Coax with HeatShrink

### PE3W05710/HS-12

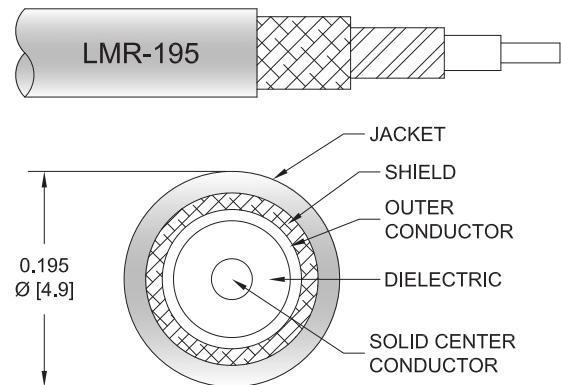


#### Configuration

- 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-12 SMA female bulkhead to SMA male 12 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-12 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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#### 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.) | 0.26 | 0.29 | 0.32 | 0.39 | 0.5 | 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         | 12 in [304.8 mm]    |
| Width/Diameter | 0.5 in [12.7 mm]    |
| Weight         | 0.058 lbs [26.31 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:

## SMA Female Bulkhead to SMA Male Low Loss Cable 12 Inch Length Using LMR-195 Coax with HeatShrink

### PE3W05710/HS-12



#### Typical Performance Data

#### How to Order

Part Number Configuration:

**PE3W05710/HS**

**- xx**

**uu**

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

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

SMA Female Bulkhead to SMA Male Low Loss Cable 12 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 12 Inch Length Using LMR-195 Coax with HeatShrink PE3W05710/HS-12](https://www.pasternack.com/sma-female-bulkhead-to-sma-male-low-loss-cable-12-inch-length-using-lmr-195-with-heatshrink-pe3w05710-hs-12-p.aspx)

URL: <https://www.pasternack.com/sma-female-bulkhead-to-sma-male-low-loss-cable-12-inch-length-using-lmr-195-with-heatshrink-pe3w05710-hs-12-p.aspx>

The information contained within 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 Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PE3W05710/HS-12 CAD Drawing

SMA Female Bulkhead to SMA Male Low Loss Cable 12 Inch Length Using LMR-195 Coax with HeatShrink

