



SMA Female to SMA Female Bulkhead Low Loss Cable Using LMR-195 Coax with HeatShrink

TECHNICAL DATA SHEET

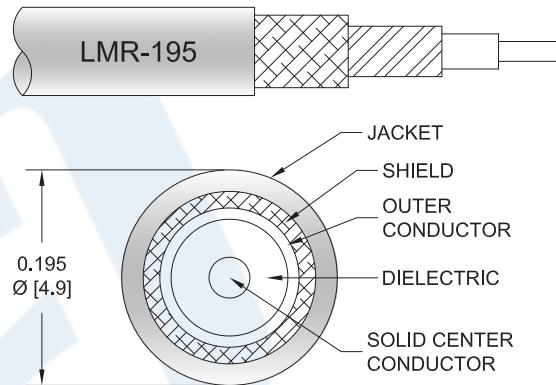
PE3C5788/HS

Configuration

- Connector 1: SMA Female
- Connector 2: SMA Female Bulkhead
- 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 PE3C5788/HS SMA female to SMA female bulkhead 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 female gender configuration with 50 ohm flexible LMR-195 coax. The PE3C5788/HS SMA female to SMA female 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Female to SMA Female Bulkhead Low Loss Cable Using LMR-195 Coax with Heat-Shrink PE3C5788/HS](#)



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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] | | Ω/1000ft [Ω/Km] |
| DC Resistance Outer Conductor | | 4.9 [16.08] | | Ω/1000ft [Ω/Km] |
| Jacket Spark | | | 3,000 | Vrms |

Specifications by Frequency

| Part Number | Length | Description | F1 | F2 | F3 | F4 | F5 | Units | Weight (lbs) |
|----------------|--------------------------|-----------------------|-----------|------|------|------|------|-------|--------------|
| | | | Frequency | 250 | 500 | 1000 | 2500 | 5800 | MHz |
| PE3C5788/HS | Custom Lengths Available | Insertion Loss (Typ.) | 0.06 | 0.08 | 0.12 | 0.19 | 0.3 | dB/ft | |
| | | | 0.19 | 0.27 | 0.39 | 0.63 | 0.99 | dB/m | |
| PE3C5788/HS-12 | 12 inch | Insertion Loss (Typ.) | 0.26 | 0.29 | 0.32 | 0.39 | 0.5 | dB | 0.043 |
| PE3C5788/HS-24 | 24 inch | Insertion Loss (Typ.) | 0.32 | 0.37 | 0.44 | 0.58 | 0.8 | dB | 0.066 |
| PE3C5788/HS-36 | 36 inch | Insertion Loss (Typ.) | 0.38 | 0.45 | 0.55 | 0.77 | 1.1 | dB | 0.088 |
| PE3C5788/HS-48 | 48 inch | Insertion Loss (Typ.) | 0.43 | 0.53 | 0.67 | 0.96 | 1.4 | dB | 0.11 |
| PE3C5788/HS-60 | 60 inch | Insertion Loss (Typ.) | 0.49 | 0.61 | 0.78 | 1.15 | 1.7 | dB | 0.132 |

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: 0.043 pounds

Additional Weight per Inch: 0.00184 pounds

Mechanical Specifications

Cable Assembly

Weight 0.043 lbs [19.5 g]

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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] |

Connectors

| Description | Connector 1 | Connector 2 |
|-------------------------------|------------------------|------------------------------|
| Type | SMA Female Threaded | SMA Female Bulkhead Threaded |
| Impedance | 50 Ohms | 50 Ohms |
| Contact Material and Plating | Beryllium Copper, Gold | Beryllium Copper, Gold |
| Contact Plating Specification | 50 μ in. minimum | 50 μ in minimum |
| Dielectric Type | PTFE | PTFE |
| Body Material and Plating | Brass, Nickel | Brass, Nickel |
| Body Plating Specification | 100 μ in. minimum | 100 μ in minimum |

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

Plotted and Other Data

Notes:

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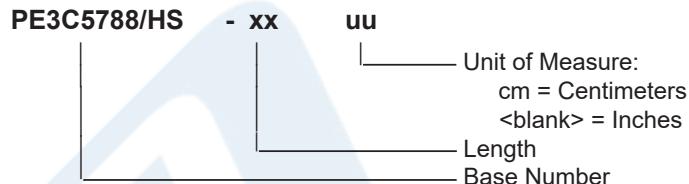
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PE3C5788/HS

How to Order

Part Number Configuration:



Example: PE3C5788/HS-12 = 12 inches long cable
PE3C5788/HS-100cm = 100 cm long cable

SMA Female to SMA Female Bulkhead 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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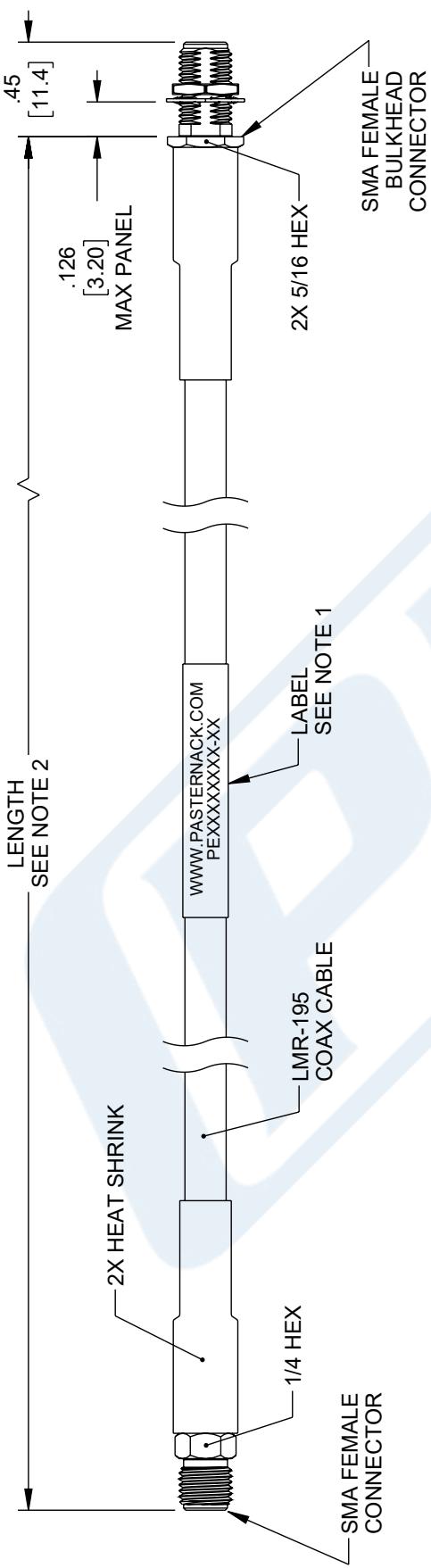
URL: <https://www.pasternack.com/sma-female-to-sma-female-bulkhead-low-loss-cable-using-lmr-195-with-heatshrink-pe3c5788-hs-p.aspx>

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.

PE3C5788/HS CAD Drawing

SMA Female to SMA Female Bulkhead Low Loss Cable Using LMR-195 Coax with HeatShrink

| ZONE | REV | DESCRIPTION | DATE | CHANGED BY | APPROVED |
|------|-----|-----------------|-----------|------------|----------|
| A | | INITIAL RELEASE | 10/2/2023 | KDANG | AGANWANI |



NOTES:

1. CABLE ASSY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROX CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROX 6 INCHES FROM EACH CONNECTOR.
2. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.
3. CABLES ASSEMBLIES SHALL BE TESTED FOR CONTINUITY

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| | | | | |
|---|--|---|--|---------------|
| PE PASTERNACK® an INFINITE® brand | |  | INTERPRET ALL DIMENSIONS IN INCHES TOLERANCES FOR ASME Y14.5 | |
| | | | SCALE | SHEET |
| UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS | TOLERANCES: | | NONE | 1 OF 1 |
| $X = 2.2 [5]$ $XX = \pm 0.02 [0.5]$ $.XXX = \pm 0.005 [0.13]$ | FRACTIONS $\pm 1/32$ ANGLES $\pm 1^\circ$ CABLE LENGTH TOLERANCES: $\pm 12 [305] \pm 1 [25] / -0$ $\pm 60 [1524] \pm 2 [51] / -0$ $\pm 120 [3048] \pm 4 [102] / -0$ $\pm 120 [3048] \pm 300 [7620] \pm 6 [152] / -0$ | | | |
| | | DESCRIPTION | | |
| | | Website: www.Pasternack.com | Phone: 1.866.727.8376 1.949.261.1920 | |

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