

## Fire Rated SMA Male to Reverse Polarity SMA Plug Low Loss Cable 12 Inch Length Using LMR-195-FR Coax with HeatShrink



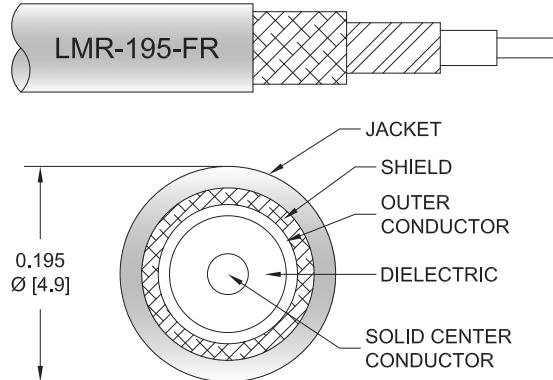
### PE3W09800/HS-12

#### Configuration

- Connector 1: SMA Male
- Connector 2: SMA Plug Reverse Polarity
- Cable Type: LMR-195-FR
- Coax Flex Type: Flexible

#### Features

- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 76% Phase Velocity
- Double Shielded
- FRPE Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W09800/HS-12 SMA male to reverse polarity SMA plug 12 inch cable using LMR-195-FR 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 reverse polarity SMA cable assembly has a male to plug gender configuration with 50 ohm flexible LMR-195-FR coax. The PE3W09800/HS-12 SMA male to reverse polarity SMA plug cable assembly operates to 5.8 GHz. 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
Velocity of Propagation		76		%
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]

Fire Rated SMA Male to Reverse Polarity SMA  
Plug Low Loss Cable 12 Inch Length Using  
LMR-195-FR Coax with HeatShrink



## PE3W09800/HS-12

### 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:

The Insertion Loss data above is based on the performance specifications of the coax and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1 dB per connector.

### Mechanical Specifications

#### Cable Assembly

Length	12 in [304.8 mm]
Width/Diameter	0.5 in [12.7 mm]
Weight	0.238 lbs [107.95 g]

#### Cable

Cable Type	LMR-195-FR
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper
Dielectric Type	PE
Number of Shields	2
Shield Layer 1	Aluminum Tape
Shield Layer 2	Tinned Copper Braid
Jacket Material	FRPPE, 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]

Fire Rated SMA Male to Reverse Polarity SMA  
Plug Low Loss Cable 12 Inch Length Using  
LMR-195-FR Coax with HeatShrink



## PE3W09800/HS-12

### Connectors

Description	Connector 1	Connector 2
Type	SMA Male	SMA Plug Reverse Polarity
Specification	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold
Contact Plating Specification	50 $\mu$ in minimum	QQ-C-530
Dielectric Type	PTFE	Teflon
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100 $\mu$ in minimum	QQ-B-626
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel
Coupling Nut Plating Specification	100 $\mu$ in minimum	QQ-B-626
Hex Size	5/16 inch	
Torque	3 in-lbs 0.34 Nm	

### Environmental Specifications

Operating Range Temperature -40 to +85 deg C

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

### Plotted and Other Data

Notes:

Fire Rated SMA Male to Reverse Polarity SMA  
Plug Low Loss Cable 12 Inch Length Using  
LMR-195-FR Coax with HeatShrink

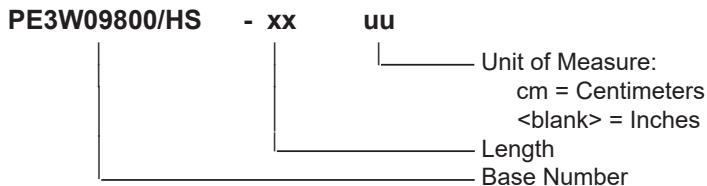


## PE3W09800/HS-12

### Typical Performance Data

### How to Order

Part Number Configuration:



Example: PE3W09800/HS-12 = 12 inches long cable  
PE3W09800/HS-100cm = 100 cm long cable

Fire Rated SMA Male to Reverse Polarity SMA Plug Low Loss Cable 12 Inch Length Using LMR-195-FR 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: [Fire Rated SMA Male to Reverse Polarity SMA Plug Low Loss Cable 12 Inch Length Using LMR-195-FR Coax with HeatShrink PE3W09800/HS-12](#)

URL: <https://www.pasternack.com/fire-rated-sma-male-to-reverse-polarity-sma-plug-low-loss-cable-12-inch-length-using-lmr-195-fr-with-heatshrink-pe3w09800-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.

PE3W09800/HS-12 CAD Drawing

Fire Rated SMA Male to Reverse Polarity SMA Plug Low Loss Cable  
12 Inch Length Using LMR-195-FR Coax with HeatShrink

