

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

PE3W09800/HS

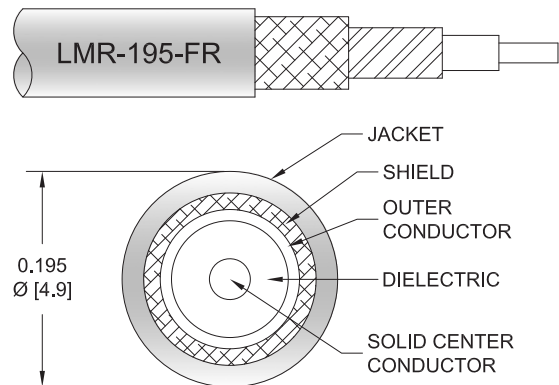


Configuration

- 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 SMA male to reverse polarity SMA plug 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 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]

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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.)	0.057	0.081	0.116	0.19	0.299	dB/ft
	0.19	0.27	0.38	0.62	0.98	dB/m

Electrical Specification Notes:

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

Mechanical Specifications

Cable Assembly

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	FRPE, 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 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 µin minimum	QQ-C-530
Dielectric Type	PTFE	Teflon
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100 µin minimum	QQ-B-626
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel
Coupling Nut Plating Specification	100 µin 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:

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PE3W09800/HS

Typical Performance Data

How to Order

Part Number Configuration:

PE3W09800/HS

- xx

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Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

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 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.

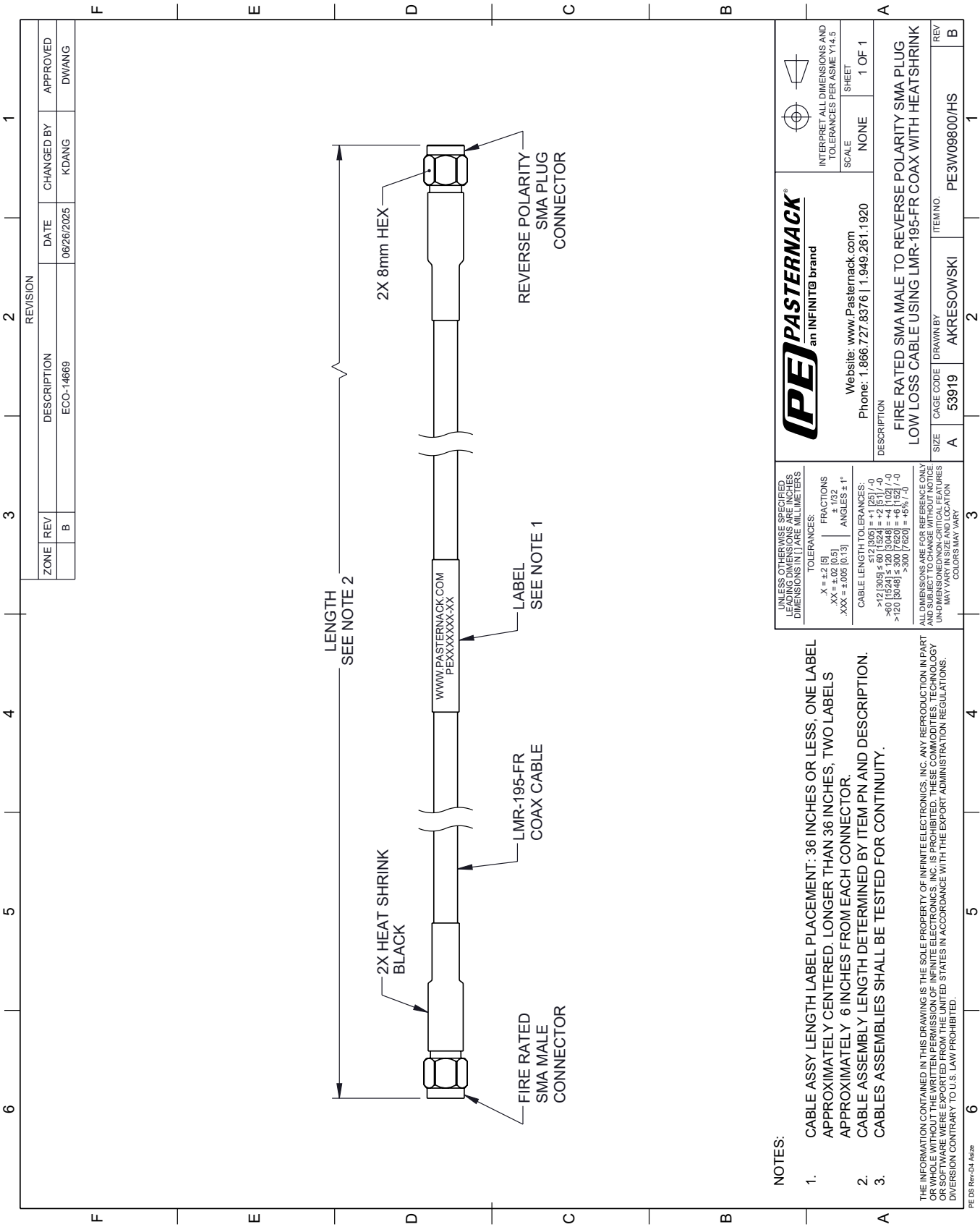
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Fire Rated SMA Male to Reverse Polarity SMA Plug Low Loss Cable Using LMR-195-FR Coax with HeatShrink PE3W09800/HS](#)

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

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PE3W09800/HS CAD Drawing

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UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES, TRAILING DIMENSIONS ARE IN MILLIMETERS

TOLERANCES: X = ±.2 [5] FRACTIONS ±.132 XX = ±.02 [0.5] ANGLES ± 1° .XXX = ±.005 [0.13]

CABLE LENGTH TOLERANCES: >12 [305] ≤ 60 [1524] = ±.125 [-0] >60 [1524] ≤ 120 [3048] = ±.110 [-0] >120 [3048] ≤ 300 [7620] = ±.125 [-0]

ALL DIMENSIONS ARE FOR REFERENCE ONLY. DIMENSIONS OF INDIVIDUAL COMPONENTS MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

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INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE
SHEET: 1 OF 1

DESCRIPTION: FIRE RATED SMA MALE TO REVERSE POLARITY SMA PLUG LOW LOSS CABLE USING LMR-195-FR COAX WITH HEATSHRINK

SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	53919	AKRESOWSKI	PE3W09800/HS

NOTES:

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

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