

## SSMC Plug to SSMC Plug Right Angle Cable Using PE-SR047FL Coax with HeatShrink, LF Solder



### RF Cable Assemblies Technical Data Sheet

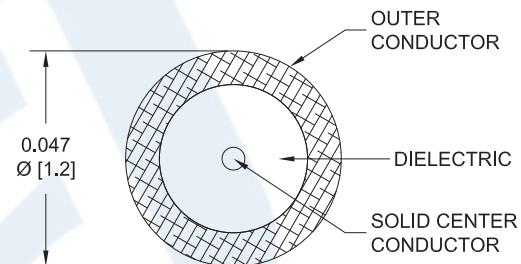
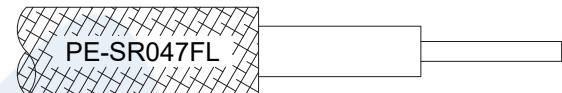
**PE3W09200LF/HS**

#### Configuration

- Connector 1: SSMC Plug
- Connector 2: SSMC Plug Right Angle
- Cable Type: PE-SR047FL

#### Features

- Max Frequency 12.4 GHz
- 69.5% Phase Velocity
- 500 Mating Cycles



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W09200LF/HS SSMC plug to SSMC plug right angle cable using PE-SR047FL coax is part of our full line of RF components available for same-day shipping. Pasternack's formable RF cable assemblies provide an alternative to costly pre-formed semi-rigid assemblies since they are hand formable. This Pasternack SSMC to SSMC cable assembly has a plug to plug gender configuration with 50 ohm formable PE-SR047FL coax. The PE3W09200LF/HS SSMC plug to SSMC plug cable assembly operates to 12.4 GHz. The right angle SSMC interface on the PE-SR047FL cable allows for easier connections in tight spaces.

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: [SSMC Plug to SSMC Plug Right Angle Cable Using PE-SR047FL Coax with HeatShrink, LF Solder PE3W09200LF/HS](#)

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**Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		12.4	GHz
VSWR			1.5:1	
Velocity of Propagation	69.5			%
Capacitance	32 [104.99]			pF/ft [pF/m]
DC Resistance Inner Conductor	207 [679.13]			Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor	8 [26.25]			Ω/1000ft [Ω/Km]
Operating Voltage (AC)			250	Vrms

**Specifications by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	2.5	5	12.4	GHz
Insertion Loss (Typ.)	0.25	0.36	0.578	0.86	1.443	dB/ft
	0.82	1.18	1.9	2.82	4.73	dB/m

**Electrical Specification Notes:**

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as  $0.05 \times \text{SQRT}(f\text{GHz})$  dB for the right angle connector and 0.1 dB for the straight connector.

**Mechanical Specifications**
**Cable Assembly**

Weight 0.017 lbs [7.71 g]

**Cable**

Cable Type PE-SR047FL  
Impedance 50 Ohms  
Inner Conductor Type Solid  
Inner Conductor Material and Plating Copper Clad Steel, Silver  
Dielectric Type PTFE  
Number of Shields 1  
Outer Conductor Material and Plating Tinned Copper Braid

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**PE3W09200LF/HS**

#### Connectors

Description	Connector 1	Connector 2
Type	SSMC Plug	SSMC Plug Right Angle
Impedance	50 Ohms	50 Ohms
Mating Cycles	500	500
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Specification	MIL-G-45204	MIL-G-45204
Dielectric Type	Teflon	Teflon
Body Material and Plating	Beryllium Copper, Gold	Brass, Gold
Body Plating Specification	MIL-G-45204	MIL-G-45204
Coupling Nut Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Coupling Nut Plating Specification	MIL-G-45204	MIL-G-45204
Torque	1.75 in-lbs [0.2 Nm]	1.75 in-lbs [0.2 Nm]

#### Environmental Specifications

##### Temperature

Operating Range

-40 to +100 deg C

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

#### Plotted and Other Data

Notes:

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**RF Cable Assemblies Technical Data Sheet**

**PE3W09200LF/HS**

**How to Order**

Part Number Configuration:

**PE3W09200LF/HS - xx**

**uu**

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

Example: PE3W09200LF/HS-12 = 12 inches long cable  
PE3W09200LF/HS-100cm = 100 cm long cable

SSMC Plug to SSMC Plug Right Angle Cable Using PE-SR047FL Coax with HeatShrink, LF Solder 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/ssmc-plug-to-ssmc-plug-cable-using-pe-sr047fl-with-heatshrink-lf-solder-pe3w09200lf-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.

**PE3W09200LF/HS CAD Drawing**  
 SSMC Plug to SSMC Plug Right Angle Cable Using PE-  
 SR047FL Coax with HeatShrink, LF Solder

