

Fire Rated SMA Male Right Angle to SMA Male Right Angle Low Loss Cable Using LMR-100-FR Coax with HeatShrink, LF Solder



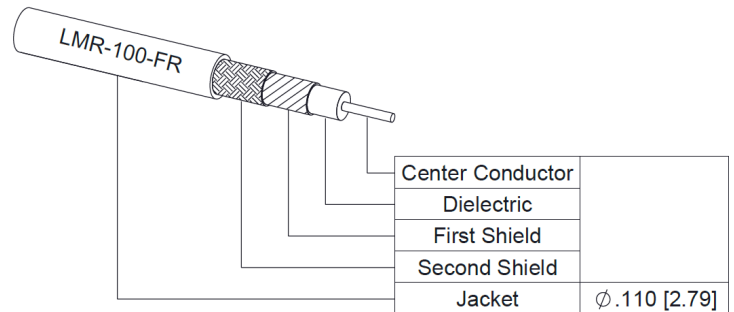
**PE3W14389LF/HS**

**Configuration**

- Connector 1: SMA Male Right Angle
- Connector 2: SMA Male Right Angle
- Cable Type: LMR-100A-FR
- Coax Flex Type: Flexible

**Features**

- Max Frequency 6 GHz
- Shielding Effectivity > 90 dB
- 66% Phase Velocity
- Double Shielded
- FRPE Jacket



**Applications**

- General Purpose
- Laboratory Use

**Description**

Pasternack's PE3W14389LF/HS SMA male right angle to SMA male right angle cable using LMR-100-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 SMA cable assembly has a male to male gender configuration with 50 ohm flexible LMR-100A-FR coax. The PE3W14389LF/HS SMA male to SMA male cable assembly operates to 6 GHz. The right angle SMA interfaces on the LMR-100A-FR cable allow for easier connections in tight spaces. 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		6	GHz
VSWR			1.4:1	
Velocity of Propagation		66		%
RF Shielding	90			dB
Group Delay		1.54 [5.05]		ns/ft [ns/m]
Capacitance		30.8 [101.05]		pF/ft [pF/m]
Inductance		0.077 [0.25]		uH/ft [uH/m]
DC Resistance Inner Conductor		81 [265.75]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		9.5 [31.17]		Ohms/1000ft [Ohms/Km]

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## PE3W14389LF/HS

### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Jacket Spark			2,000	Vrms

### Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency					MHz	
PE3W14389LF/HS	Custom Lengths Available	Insertion Loss (Typ.)	0.115	0.165	0.24	0.398	0.641	dB/ft	
			0.38	0.55	0.79	1.31	2.11	dB/m	
PE3W14389LF/HS-24	24 In	Insertion Loss (Typ.)	0.63	0.73	0.88	1.2	1.69	dB	0.05
PE3W14389LF/HS-36	36 In	Insertion Loss (Typ.)	0.75	0.9	1.12	1.6	2.33	dB	0.059
PE3W14389LF/HS-48	48 In	Insertion Loss (Typ.)	0.86	1.06	1.36	2	2.97	dB	0.068
PE3W14389LF/HS-100CM	100 CM	Insertion Loss (Typ.)	0.78	0.95	1.19	1.71	2.51	dB	0.062
PE3W14389LF/HS-200CM	200 CM	Insertion Loss (Typ.)	1.16	1.49	1.98	3.02	4.61	dB	0.092

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:	0.2 dB
Loss due to Connector 2:	0.2 dB
Base Weight:	0.041 pounds
Additional Weight per Inch:	0.00075 pounds

### Mechanical Specifications

#### Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.032 lbs [14.51 g]

#### Cable

Cable Type	LMR-100A-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
Jacket Material	FRPE, Black
Jacket Diameter	0.11 in [2.79 mm]
One Time Minimum Bend Radius	0.25 in [6.35 mm]
Repeated Minimum Bend Radius	1 in [25.4 mm]
Bending Moment	0.1 lbs-ft [0.14 N-m]
Flat Plate Crush	10 lbs/in [0.18 Kg/mm]
Tensile Strength	15 lbs [6.8 Kg]

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## PE3W14389LF/HS

### Connectors

Description	Connector 1	Connector 2
Type	SMA Male Right Angle	SMA Male Right Angle
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Right Angle
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	50 µin minimum	50 µin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100 µin minimum	100 µin minimum
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel
Coupling Nut Plating Specification	100 µin minimum	100 µin minimum
Hex Size	5/16 inch	5/16 inch
Torque	3 in-lbs 0.34 Nm	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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## PE3W14389LF/HS

### Typical Performance Data

### How to Order

Part Number Configuration:

**PE3W14389LF/HS - xx uu**



Example: PE3W14389LF/HS-12 = 12 inches long cable  
PE3W14389LF/HS-100cm = 100 cm long cable

Fire Rated SMA Male Right Angle to SMA Male Right Angle Low Loss Cable Using LMR-100-FR 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.

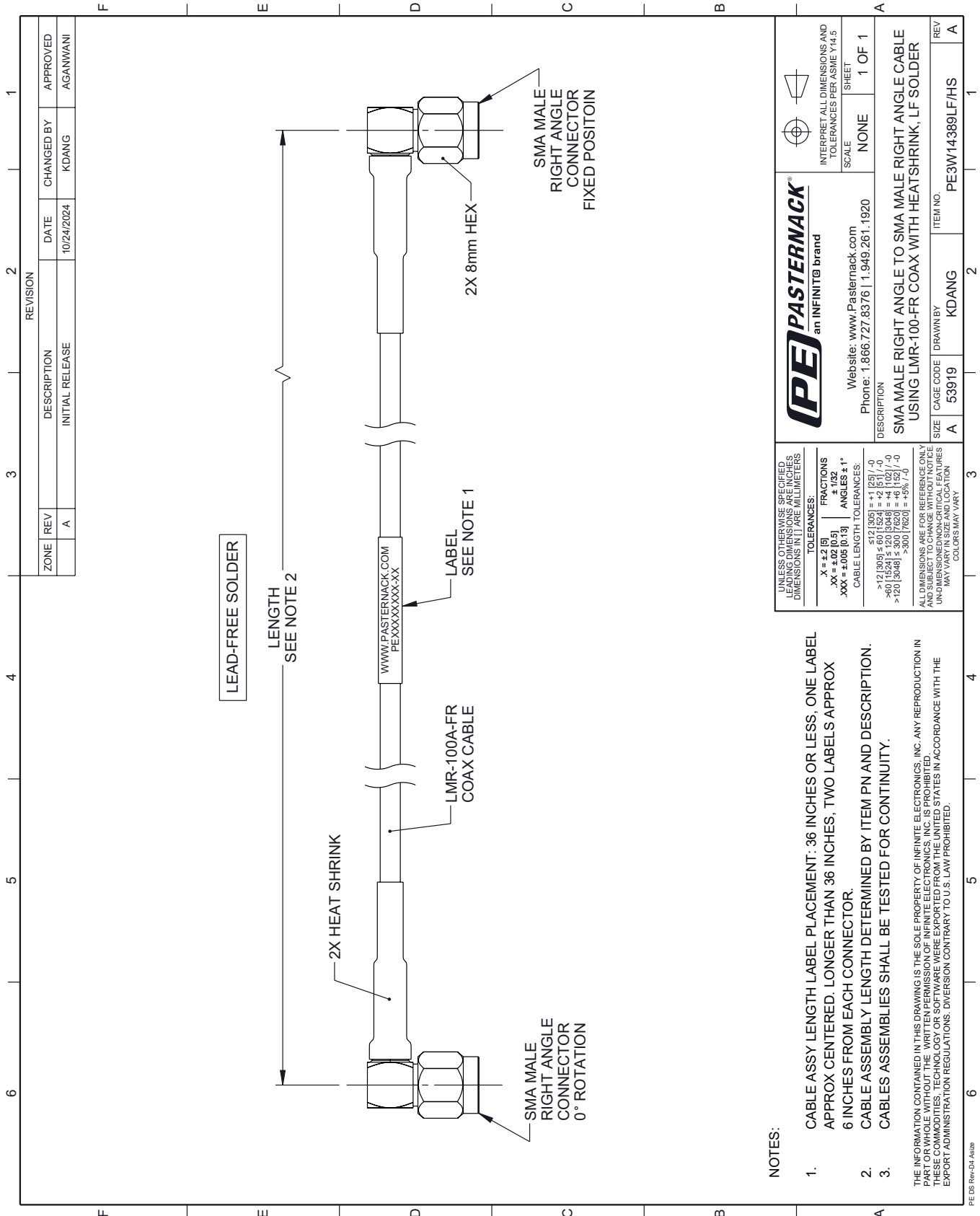
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Fire Rated SMA Male Right Angle to SMA Male Right Angle Low Loss Cable Using LMR-100-FR Coax with HeatShrink, LF Solder PE3W14389LF/HS](#)

URL: <https://www.pasternack.com/fire-rated-sma-male-right-angle-to-sma-male-low-loss-cable-using-lmr-100-fr-with-heatshrink-lf-solder-pe3w14389lf-hs-p.aspx>

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# PE3W14389LF/HS CAD Drawing

Fire Rated SMA Male Right Angle to SMA Male Right Angle Low Loss Cable Using LMR-100-FR Coax with HeatShrink, LF Solder



REVISION		DATE	CHANGED BY	APPROVED
ZONE	REV			
	A	10/24/2024	KDANG	AGANWANI
DESCRIPTION				
INITIAL RELEASE				

**PE PASTERNAK**  
an INFINITE brand

Website: [www.Pasternack.com](http://www.Pasternack.com)  
Phone: 1.866.727.8376 | 1.949.261.1920

DESCRIPTION: SMA MALE RIGHT ANGLE TO SMA MALE RIGHT ANGLE CABLE USING LMR-100-FR COAX WITH HEATSHRINK, LF SOLDER

SCALE: NONE SHEET: 1 OF 1

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	53919	KDANG	PE3W14389LF/HS	A

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE IN INCHES DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:  
 .X = ±.2 [5]  
 .XX = ±.02 [0.5]  
 .XXX = ±.005 [0.13]

ANGLES ± 1°  
 ± 1/32

CABLE LENGTH TOLERANCES:  
 ≤ 12 [305] ± .60 [1524] = ±.2 [5] / -0  
 > 12 [305] ± .60 [1524] = ±.2 [5] / -0  
 > 40 [1024] ± 1.20 [3048] = ±.4 [1027] / -0  
 > 120 [3048] ± 3.00 [7620] = ±.9 [23] / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY UNLESS OTHERWISE SPECIFIED UNDIMENSIONED NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION COLORS MAY VARY

- NOTES:
- 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.
  - CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.
  - CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
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- PE DS Rev-D4 As20