

## SMA Male to SMA Male Right Angle Low Loss Cable Using LMR-240-FR Coax with HeatShrink, LF Solder



### PE3W18136LF/HS

#### Configuration

- Connector 1: SMA Male
- Connector 2: SMA Male Right Angle
- Cable Type: LMR-240-FR
- Coax Flex Type: Flexible

#### Features

- Max Frequency 8 GHz
- Shielding Effectivity > 90 dB
- 83% Phase Velocity
- Double Shielded
- FRPE Jacket

#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W18136LF/HS SMA male to SMA male right angle cable using LMR-240-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-240-FR coax. The PE3W18136LF/HS SMA male to SMA male cable assembly operates to 8 GHz. The right angle SMA interface on the LMR-240-FR cable allows 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		8	GHz
VSWR			1.4:1	
Velocity of Propagation		83		%
RF Shielding	90			dB
Group Delay		1.21 [3.97]		ns/ft [ns/m]
Capacitance		24.2 [79.4]		pF/ft [pF/m]
Inductance		0.06 [0.2]		uH/ft [uH/m]
DC Resistance Inner Conductor		3.2 [10.5]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		3.89 [12.76]		Ohms/1000ft [Ohms/Km]

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**Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Jacket Spark			5,000	Vrms

**Specifications by Frequency**

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency					MHz	
PE3W18136LF/HS	Custom Lengths Available	Insertion Loss (Typ.)	0.039	0.056	0.076	0.129	0.204	dB/ft	
			0.13	0.19	0.25	0.43	0.67	dB/m	
PE3W18136LF/HS-12	12 inch	Insertion Loss (Typ.)	0.34	0.36	0.38	0.43	0.51	dB	0.075
PE3W18136LF/HS-24	24 inch	Insertion Loss (Typ.)	0.38	0.42	0.46	0.56	0.71	dB	0.114
PE3W18136LF/HS-36	36 inch	Insertion Loss (Typ.)	0.42	0.47	0.53	0.69	0.92	dB	0.153
PE3W18136LF/HS-48	48 inch	Insertion Loss (Typ.)	0.46	0.53	0.61	0.82	1.12	dB	0.192
PE3W18136LF/HS-60	60 inch	Insertion Loss (Typ.)	0.5	0.58	0.68	0.95	1.32	dB	0.231

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:	0.2 dB
Base Weight:	0.075 pounds
Additional Weight per Inch:	0.00325 pounds

**Mechanical Specifications**

**Cable Assembly**

Width/Diameter	0.5 in [12.7 mm]
Weight	0.036 lbs [16.33 g]

**Cable**

Cable Type	LMR-240-FR
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper
Dielectric Type	Foam PE
Number of Shields	2
Shield Layer 1	Aluminum Tape
Shield Layer 2	Tinned Copper
Jacket Material	FRPE, Black
Jacket Diameter	0.24 in [6.1 mm]
One Time Minimum Bend Radius	0.75 in [19.05 mm]
Repeated Minimum Bend Radius	2.5 in [63.5 mm]
Bending Moment	0.25 lbs-ft [0.34 N-m]
Flat Plate Crush	20 lbs/in [0.36 Kg/mm]
Tensile Strength	80 lbs [36.29 Kg]

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**Connectors**

Description	Connector 1	Connector 2
Type	SMA Male	SMA Male Right Angle
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Right Angle
Mating Cycles	500	
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification		50 µin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Gold	Brass, Gold
Body Plating Specification		3 µin minimum
Coupling Nut Material and Plating	Brass, Gold	Brass, Gold
Coupling Nut Plating Specification		3 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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**PE3W18136LF/HS**

**Typical Performance Data**

**How to Order**

Part Number Configuration:

**PE3W18136LF/HS - xx uu**



Example: PE3W18136LF/HS-12 = 12 inches long cable  
PE3W18136LF/HS-100cm = 100 cm long cable

SMA Male to SMA Male Right Angle Low Loss Cable Using LMR-240-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.

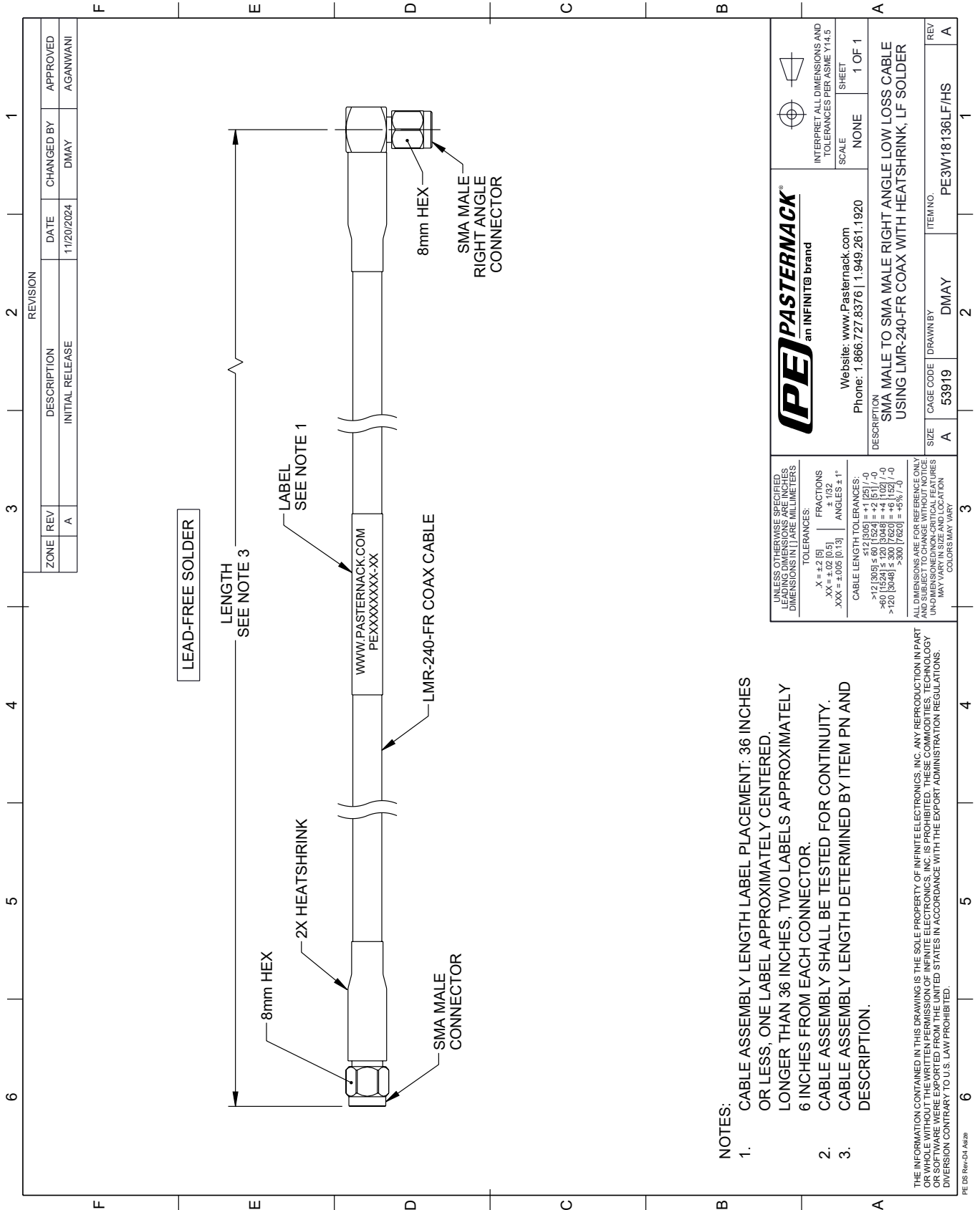
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male to SMA Male Right Angle Low Loss Cable Using LMR-240-FR Coax with HeatShrink, LF Solder PE3W18136LF/HS](#)

URL: <https://www.pasternack.com/sma-male-to-sma-male-low-loss-cable-using-lmr-240-fr-with-heatshrink-lf-solder-pe3w18136lf-hs-p.aspx>

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# PE3W18136LF/HS CAD Drawing

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**NOTES:**

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

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<p><b>PASTERNAK</b> an INFINITE brand</p>		<p>INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5</p> <p>SCALE: NONE</p> <p>SHEET: 1 OF 1</p>	
<p>UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES. DIMENSIONS IN [ ] ARE MILLIMETERS.</p> <p>TOLERANCES:</p> <p>.X = ±.2 [5]</p> <p>.XX = ±.02 [0.5]</p> <p>.XXX = ±.005 [0.13]</p> <p>FRACTIONS: ± 1/32</p> <p>ANGLES ± 1°</p>		<p>Website: <a href="http://www.Pasternack.com">www.Pasternack.com</a></p> <p>Phone: 1.866.727.8376   1.949.281.1920</p>	
<p>CABLE LENGTH TOLERANCES:</p> <p>&gt;12 [305] ≤ 60 [1524] = ±1 [25] / -0</p> <p>&gt;60 [1524] ≤ 120 [3048] = ±4 [102] / -0</p> <p>&gt;120 [3048] ≤ 300 [7620] = ±5% / -0</p>		<p>DESCRIPTION: SMA MALE TO SMA MALE RIGHT ANGLE LOW LOSS CABLE USING LMR-240-FR COAX WITH HEATSHRINK, LF SOLDER</p>	
<p>ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS/NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.</p>		<p>ITEM NO. PE3W18136LF/HS</p>	
<p>SIZE A</p>	<p>CAGE CODE 53919</p>	<p>DRAWN BY DMAY</p>	<p>REV A</p>