



## SMA Female to N Male Low Loss Cable Using LMR-240 Coax with HeatShrink, LF Solder

### RF Cable Assemblies Technical Data Sheet

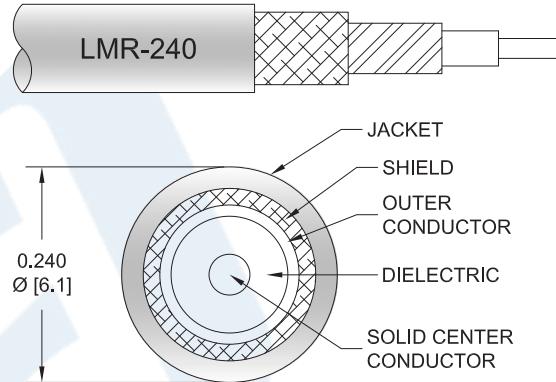
**PE3C5763LF/HS**

#### Configuration

- Connector 1: SMA Female
- Connector 2: N Male
- Cable Type: LMR-240

#### Features

- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 84% Phase Velocity
- Double Shielded
- PE Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3C5763LF/HS SMA female to type N male cable using LMR-240 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 type N cable assembly has a female to male gender configuration with 50 ohm flexible LMR-240 coax. The PE3C5763LF/HS SMA female to type N male 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Female to N Male Low Loss Cable Using LMR-240 Coax with HeatShrink, LF Solder PE3C5763LF/HS](#)



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#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		5.8	GHz
Velocity of Propagation		84		%
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]		Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor		3.89 [12.76]		Ω/1000ft [Ω/Km]
Jacket Spark			5,000	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.)	0.039	0.056	0.079	0.129	0.204	dB/ft
	0.13	0.18	0.26	0.42	0.67	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

Weight 0.131 lbs [59.42 g]

##### Cable

Cable Type LMR-240  
Impedance 50 Ohms  
Inner Conductor Type Solid  
Inner Conductor Material and Plating Copper  
Dielectric Type PE (F)  
Number of Shields 2  
Shield Layer 1 Aluminum Tape  
Shield Layer 2 Tinned Copper Braid  
Jacket Material PE, 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]

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Bending Moment  
Flat Plate Crush  
Tensile Strength

0.25 lbs-ft [0.34 N-m]  
20 lbs/in [0.36 Kg/mm]  
80 lbs [36.29 Kg]

#### Connectors

Description	Connector 1	Connector 2
Type	SMA Female	N Male
Specification		MIL-STD-348
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Beryllium Copper, Gold	Brass, Gold
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Gold	Brass, Tri-Metal
Coupling Nut Material and Plating		Brass, Tri-Metal

#### Environmental Specifications

Temperature  
Operating Range

-40 to +85 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

**PE3C5763LF/HS**

#### How to Order

Part Number Configuration:

**PE3C5763LF/HS - xx****uu**

Unit of Measure:  
cm = Centimeters  
<blank> = Inches

Length  
Base Number

Example: PE3C5763LF/HS-12 = 12 inches long cable  
PE3C5763LF/HS-100cm = 100 cm long cable

SMA Female to N Male Low Loss Cable Using LMR-240 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/sma-female-to-n-male-low-loss-cable-using-lmr-240-with-heatshrink-lf-solder-pe3c5763lf-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.

# PE3C5763LF/HS CAD Drawing

SMA Female to N Male Low Loss Cable Using LMR-240 Coax with HeatShrink, LF Solder

