



## SMA Male to SMA Male Right Angle Low Loss Cable Using LMR-240-UF Coax with HeatShrink

### RF Cable Assemblies Technical Data Sheet

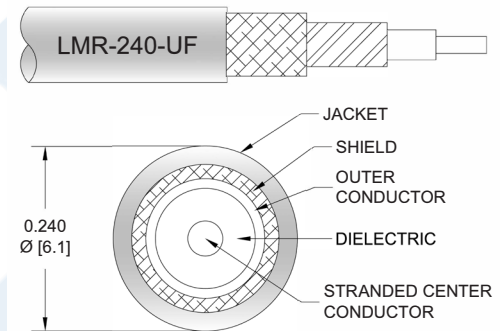
**PE3C0864/HS**

#### Configuration

- Connector 1: SMA Male
- Connector 2: SMA Male Right Angle
- Cable Type: LMR-240-UF

#### Features

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



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3C0864/HS SMA male to SMA male right angle cable using LMR-240-UF 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-UF coax. The PE3C0864/HS SMA male to SMA male cable assembly operates to 5.8 GHz. The right angle SMA interface on the LMR-240-UF 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.

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-UF Coax with Heat-Shrink PE3C0864/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		4.28 [14.04]		$\Omega$ /1000ft [ $\Omega$ /Km]
DC Resistance Outer Conductor		3.89 [12.76]		$\Omega$ /1000ft [ $\Omega$ /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.)	0.046	0.066	0.095	0.155	0.244	dB/ft
	0.15	0.22	0.31	0.51	0.8	dB/m

#### Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB for the straight connector and 0.2 dB for the right angle connector.

#### Mechanical Specifications

##### Cable Assembly

Weight 0.074 lbs [33.57 g]

##### Cable

Cable Type LMR-240-UF  
 Impedance 50 Ohms  
 Inner Conductor Type Stranded  
 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 TPE, Black  
 Jacket Diameter 0.24 in [6.1 mm]

One Time Minimum Bend Radius 0.75 in [19.05 mm]

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Repeated Minimum Bend Radius	2.5 in [63.5 mm]
Bending Moment	0.13 lbs-ft [0.18 N-m]
Flat Plate Crush	13 lbs/in [0.23 Kg/mm]
Tensile Strength	80 lbs [36.29 Kg]

**Connectors**

Description	Connector 1	Connector 2
Type	SMA Male	SMA Male Right Angle
Specification	MIL-STD-348	
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Beryllium Copper, Gold	Brass, Gold
Contact Plating Specification	ASTM B488	50 µin minimum
Dielectric Type	Teflon	PTFE
Body Material and Plating	Passivated Stainless Steel	Brass, Gold
Body Plating Specification	SAE-AMS-2700	3 µin minimum
Coupling Nut Material and Plating	Passivated Stainless Steel	Brass, Gold
Coupling Nut Plating Specification	SAE-AMS-2700	3 µin minimum
Hex Size		5/16 inch
Torque		3 in-lbs [0.34 Nm]

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

**Plotted and Other Data**

Notes:

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**RF Cable Assemblies Technical Data Sheet**

**PE3C0864/HS**

**How to Order**

Part Number Configuration:

**PE3C0864/HS - xx uu**

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

Example: PE3C0864/HS-12 = 12 inches long cable  
PE3C0864/HS-100cm = 100 cm long cable

SMA Male to SMA Male Right Angle Low Loss Cable Using LMR-240-UF 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: [SMA Male to SMA Male Right Angle Low Loss Cable Using LMR-240-UF Coax with HeatShrink PE3C0864/HS](https://www.pasternack.com/sma-male-to-sma-male-right-angle-low-loss-cable-using-lmr-240-uf-coax-with-heatshrink-pe3c0864/hs)

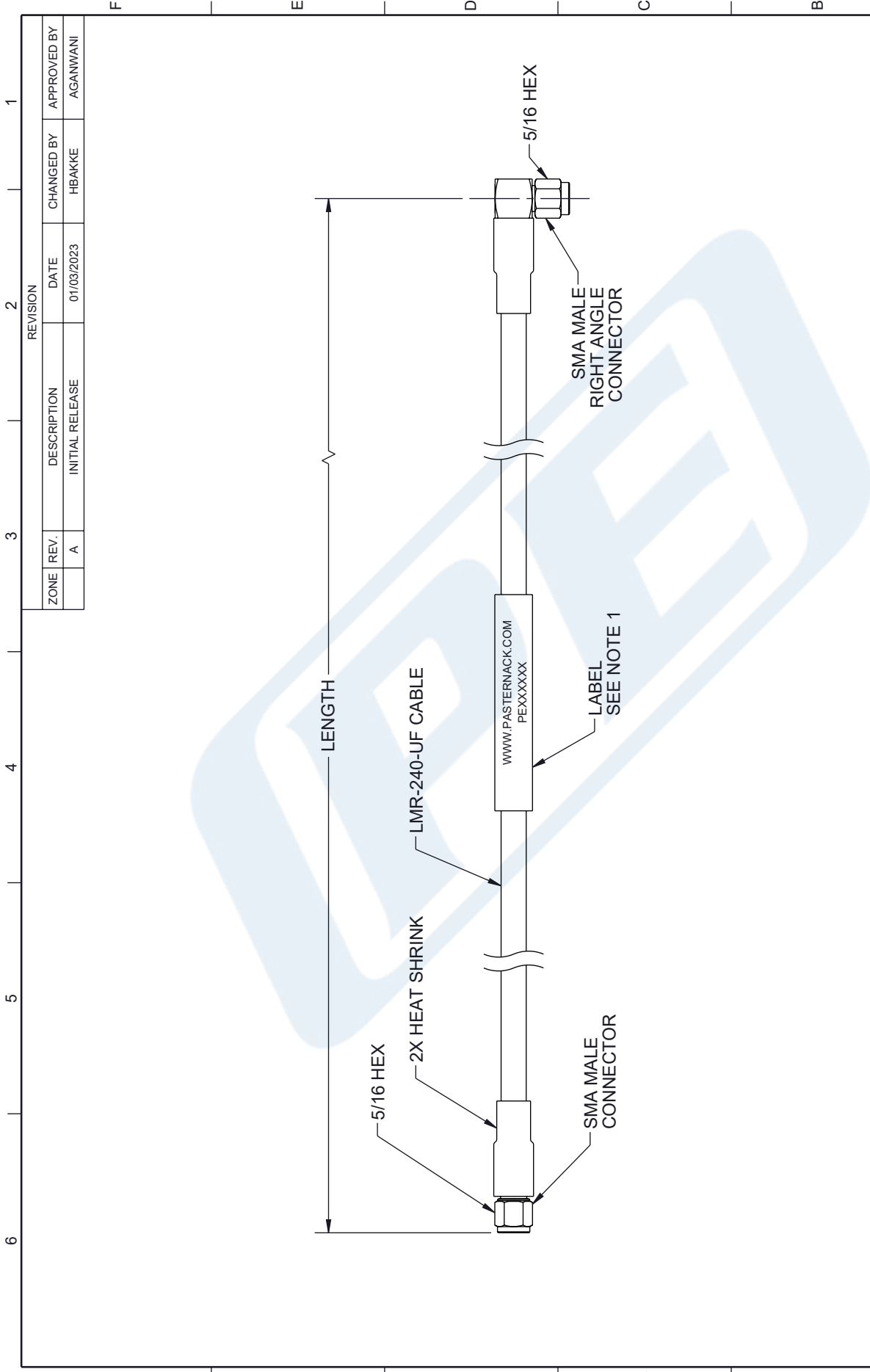
URL: <https://www.pasternack.com/sma-male-to-sma-male-low-loss-cable-using-lmr-240-uf-with-heatshrink-pe3c0864-hs-p.aspx>

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.

# PE3C0864/HS CAD Drawing

## SMA Male to SMA Male Right Angle Low Loss Cable

### Using LMR-240-UF Coax with HeatShrink



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

**TOLERANCES:**

X = ±.2	[.5]	FRACTIONS
.XX = ±.02	[.1]	± 1/32
.XXX = ±.005	[.13]	ANGLES ± 1°

**CABLE LENGTH TOLERANCES:**

>12 [305]	= +1 [25] / -0
>12 [305] ≤ 60 [1524]	= -2 [51] / -0
>60 [1524] ≤ 120 [3048]	= +4 [102] / -0
>120 [3048] ≤ 300 [7620]	= +6 [152] / -0
>300 [7620]	= +5% / -0

**ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE**

**PE PASTERNAK**  
an INFINITO brand

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

DESCRIPTION  
**SMA Male to SMA Male Right Angle Low Loss Cable Using LMR-240-UF Coax with HeatShrink**

SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	53919	HBAKKE	PE3C0864/HS

SCALE: NONE  
SHEET: 1 OF 1

**NOTES:**

- 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.
- CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

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