

## SMA Male Right Angle to Reverse Polarity SMA Male Cable Using LMR-240 Coax with HeatShrink



### RF Cable Assemblies Technical Data Sheet

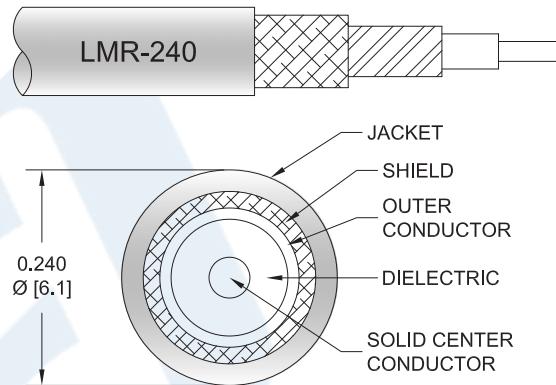
PE3W01093/HS

#### Configuration

- Connector 1: SMA Male Right Angle
- Connector 2: SMA Male Reverse Polarity
- 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 PE3W01093/HS SMA male right angle to reverse polarity SMA 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 reverse polarity SMA cable assembly has a male to male gender configuration with 50 ohm flexible LMR-240 coax. The PE3W01093/HS SMA male to reverse polarity SMA male cable assembly operates to 5.8 GHz. The right angle SMA interface on the LMR-240 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 Right Angle to Reverse Polarity SMA Male Cable Using LMR-240 Coax with HeatShrink PE3W01093/HS](#)



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#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		5.8	GHz
VSWR			1.45:1	
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 (Max.)	0.04	0.05	0.06	0.11	0.2	dB/ft
	0.13	0.16	0.2	0.36	0.66	dB/m

#### Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.2 dB for the SMA Male Right Angle connector and 0.1 dB for the SMA Male connector.

#### Mechanical Specifications

##### Cable Assembly

Diameter 0.379 in [9.63 mm]

##### 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]

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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]

#### Connectors

Description	Connector 1	Connector 2
Type	SMA Male Right Angle	SMA Male Reverse Polarity
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Gold	Brass, Gold
Coupling Nut Material and Plating	Brass, Gold	Brass, Gold
Hex Size	5/16 inch	5/16 inch
Torque	3 in-lbs [0.34 Nm]	3 in-lbs [0.34 Nm]

#### 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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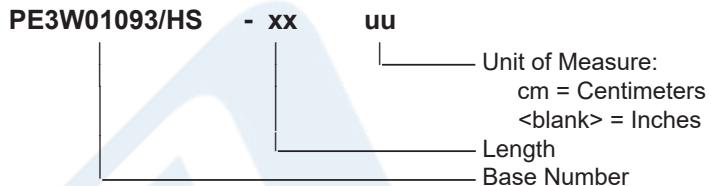


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PE3W01093/HS

#### How to Order

Part Number Configuration:



Example: PE3W01093/HS-12 = 12 inches long cable  
PE3W01093/HS-100cm = 100 cm long cable

SMA Male Right Angle to Reverse Polarity SMA Male Cable Using LMR-240 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.

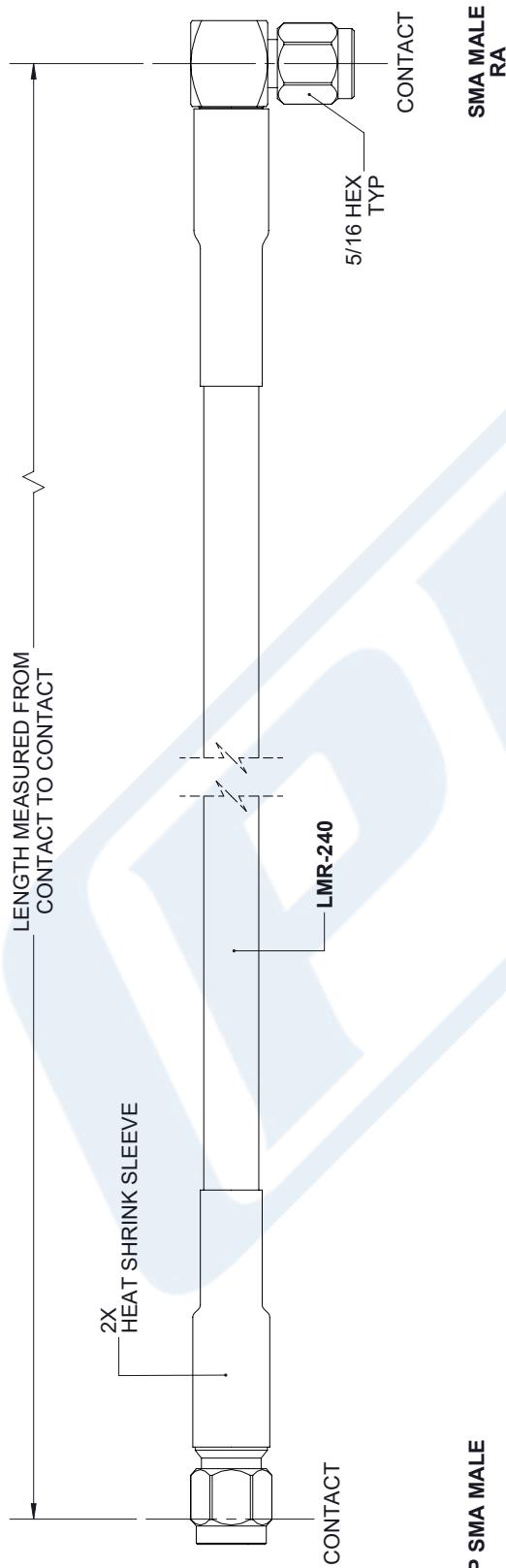
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URL: <https://www.pasternack.com/sma-male-sma-male-lmr240-cable-assembly-pe3w01093-hs-p.aspx>

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**PE3W01093/HS CAD Drawing**  
 SMA Male Right Angle to Reverse Polarity SMA Male  
 Cable Using LMR-240 Coax with HeatShrink

REVISIONS					
REV.	DESCRIPTION	DATE	APPROVED		
A	INITIAL RELEASE	8/24/2020	S.SELLIS		



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SHEET 1 OF 1		SCALE N/A	
ITEM NO. PE3W01093/HS		REV A	