

SMA Male Right Angle to Reverse Polarity SMA Male Cable
100 cm Length Using LMR-240 Coax with HeatShrink



RF Cable Assemblies Technical Data Sheet

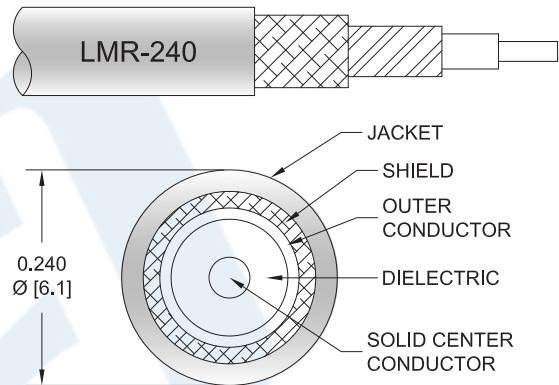
PE3W01093/HS-100CM

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-100CM SMA male right angle to reverse polarity SMA male 100 cm 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-100CM 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 100 cm Length Using LMR-240 Coax with HeatShrink PE3W01093/HS-100CM](#)

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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.)	0.43	0.46	0.5	0.66	0.97	dB

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax used in this assembly. 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

Length*	39.37 in [100 cm]
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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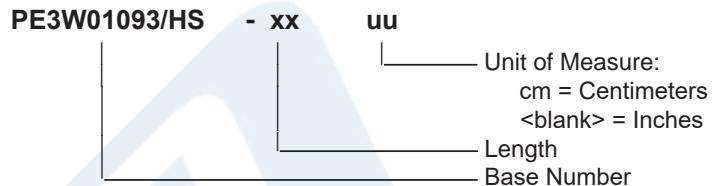


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PE3W01093/HS-100CM

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 100 cm Length 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.

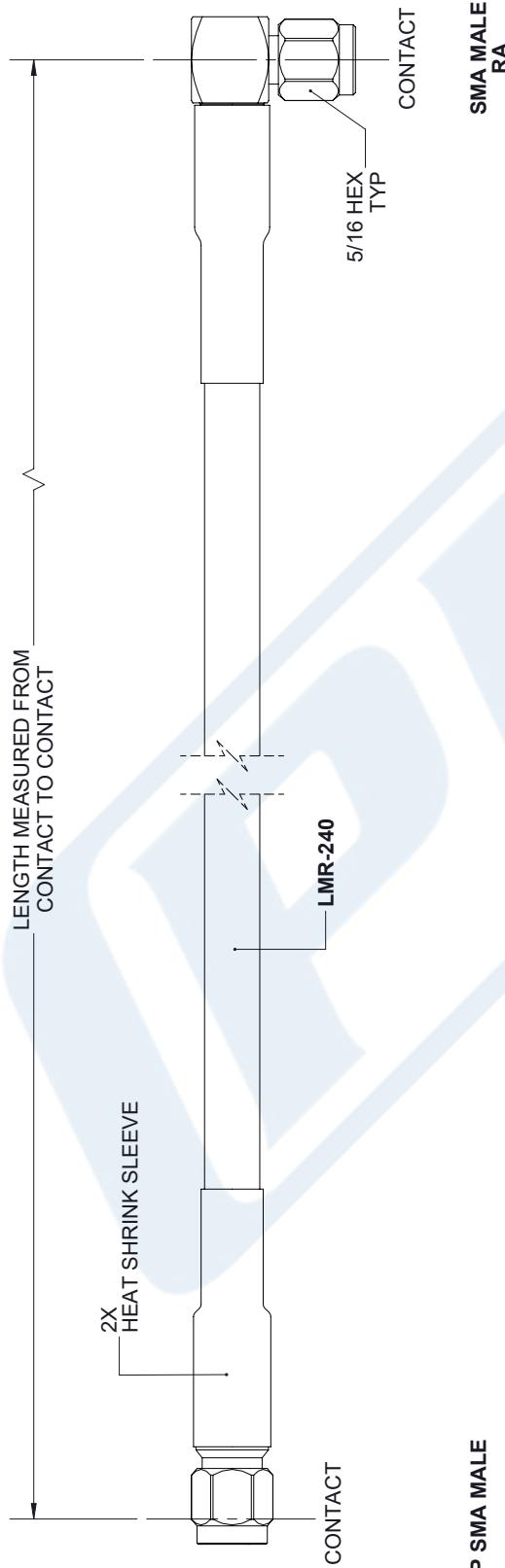
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URL:

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.

PE3W01093/HS-100CM CAD Drawing
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REVISIONS					
REV.	DESCRIPTION	DATE	APPROVED		
A	INITIAL RELEASE	8/24/2020	S.SELLIS		



UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS		TOLERANCES:		THIRD-ANGLE PROJECTION	
X = \pm 2 [5.08]	FRACTIONS XX = \pm .02 [5.51]	\pm 1/32	ANGLES \pm 1°		
XXX = \pm .005 [1.31]	CABLE LENGTH (L) TOLERANCES:				
L \leq 12 [305] = $+1$ [25] / -0 [12] [305] < L \leq 60 [1524] = $+2$ [51] / -0 [60] [1524] < L \leq 120 [3048] = $+4$ [102] / -0 [120] [3048] < L \leq 300 [7620] = $+6$ [152] / -0 [300] [7620] < L = $+5\%$ L / -0					
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.					
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SIZE CAGE CODE DRAWN BY ITEM NO.		SCALE N/A		PE3W01093/HS	
A 53919 K.DANG		REV A			

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