



Reverse Polarity SMA Plug to N Male Right Angle Low Loss Cable Using LMR-240 Coax with HeatShrink

RF Cable Assemblies Technical Data Sheet

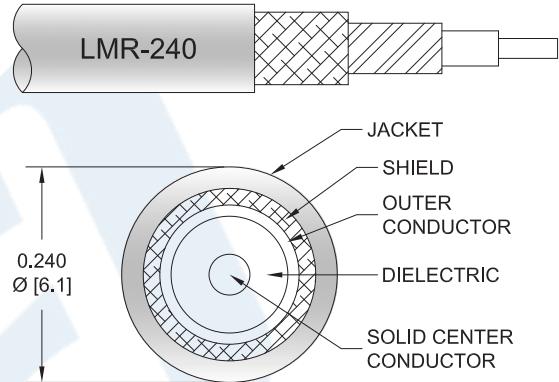
PE3W1115/HS

Configuration

- Connector 1: SMA Plug Reverse Polarity
- Connector 2: N Male Right Angle
- 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 PE3W1115/HS reverse polarity SMA plug to type N male right angle 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 reverse polarity SMA to type N cable assembly has a plug to male gender configuration with 50 ohm flexible LMR-240 coax. The PE3W1115/HS reverse polarity SMA plug to type N male cable assembly operates to 5.8 GHz. The right angle type N 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: [Reverse Polarity SMA Plug to N Male Right Angle Low Loss Cable Using LMR-240 Coax with HeatShrink PE3W1115/HS](#)



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PE3W11115/HS

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		5.8	GHz
VSWR			1.5:1	
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 (Typ.)	0.039	0.056	0.08	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 $0.05 \times \text{SQRT}(f\text{GHz})$ dB for the right angle connector and 0.1 dB for the straight connector.

Mechanical Specifications

Cable Assembly

Weight 0.144 lbs [65.32 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]

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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 Plug Reverse Polarity	N Male Right Angle
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, Gold	
Hex Size	5/16 inch	
Torque	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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PE3W11115/HS

How to Order

Part Number Configuration:

PE3W11115/HS - xx uu

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

Example: PE3W11115/HS-12 = 12 inches long cable
PE3W11115/HS-100cm = 100 cm long cable

Reverse Polarity SMA Plug to N Male Right Angle Low Loss 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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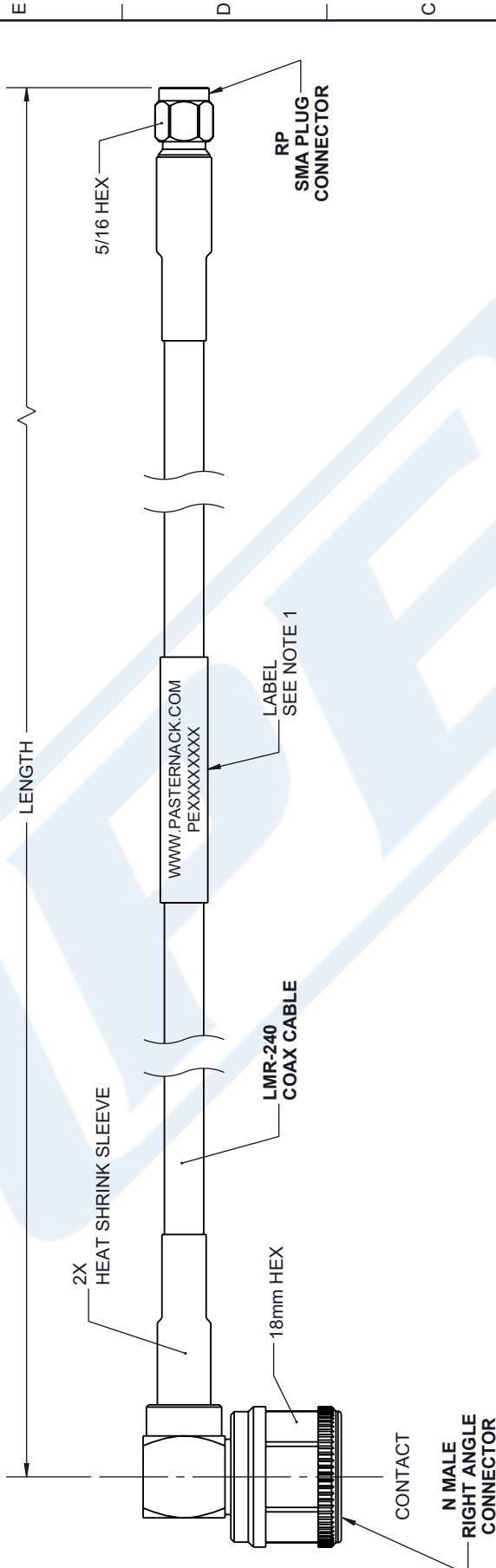
URL: <https://www.pasternack.com/reverse-polarity-sma-plug-to-n-male-low-loss-cable-using-lmr-240-with-heatshrink-pe3w11115-hs-p.aspx>

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PE3W1115/HS CAD Drawing

Reverse Polarity SMA Plug to N Male Right Angle Low Loss Cable Using LMR-240 Coax with HeatShrink

REVISION		DESCRIPTION	DATE	CHANGED BY	APPROVED
ZZONE	REV.	INITIAL RELEASE	12/16/2022	KDANG	AGANWAN



NOTES:

1. CABLE ASSY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROX CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROX 6 INCHES FROM EACH CONNECTOR.
2. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY

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UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN MILLIMETERS	TOLERANCES:	FRACTIONS $X = \pm .2$ [5] $XX = \pm .02$ [5] $XXX = \pm .005$ [13]	ANGLES $\pm 1^\circ$ CABLE LENGTH TOLERANCES:
$\pm 1/32$		Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920	DESCRIPTION
$\gt12$ [305] \leq $\gt12$ [324] $=$ $\gt12$ [325] -0 $\gt60$ [1524] \leq $\gt60$ [1524] $=$ $\gt60$ [1524] -0 $\gt10$ [3048] \leq $\gt10$ [3048] $=$ $\gt10$ [3048] -0 $\gt300$ [7620] \leq $\gt300$ [7620] $=$ $\gt300$ [7620] -0		Reverse Polarity SMA Plug to N Male Right Angle Low Loss Cable Using LMR-240 Coax with HeatShrink	
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