



SMA Male to N Male Low Loss Cable Using LMR-240-UF Coax With Times Microwave Parts with HeatShrink

**RF Cable Assemblies Technical Data Sheet**

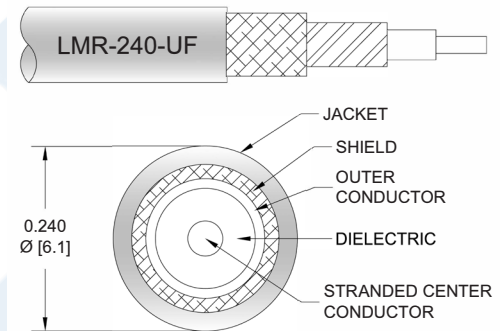
**PE3W09712/HS**

**Configuration**

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

**Features**

- Shielding Effectivity > 90 dB
- 84% Phase Velocity
- Double Shielded
- TPE Jacket



**Applications**

- General Purpose
- Laboratory Use

**Description**

Pasternack's PE3W09712/HS SMA male to type N male 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 type N cable assembly has a male to male gender configuration with 50 ohm flexible LMR-240-UF coax. 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.

**Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
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]		Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor		3.89 [12.76]		Ω/1000ft [Ω/Km]
Jacket Spark			5,000	Vrms

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 N Male Low Loss Cable Using LMR-240-UF Coax With Times Microwave Parts with HeatShrink PE3W09712/HS](#)



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PE3W09712/HS

### Mechanical Specifications

#### Cable Assembly

Weight 0.13 lbs [58.97 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]  
 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	N Male
Specification	MIL-STD-348	MIL-STD-348
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Specification	ASTM B488	ASTM-B488
Dielectric Type	Teflon	Teflon
Body Material and Plating	Passivated Stainless Steel	Brass, Tri-Metal
Body Plating Specification	SAE-AMS-2700	QQ-N-290
Coupling Nut Material and Plating	Passivated Stainless Steel	Brass, Tri-Metal
Coupling Nut Plating Specification	SAE-AMS-2700	QQ-N-290
Hex Size		13/16 inch

### Environmental Specifications

#### Temperature

Operating Range -65 to +165 deg C

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## RF Cable Assemblies Technical Data Sheet

**PE3W09712/HS**

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

**Plotted and Other Data**

Notes:

**How to Order**

Part Number Configuration:

**PE3W09712/HS - xx uu**

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

Example: PE3W09712/HS-12 = 12 inches long cable  
 PE3W09712/HS-100cm = 100 cm long cable

SMA Male to N Male Low Loss Cable Using LMR-240-UF Coax With Times Microwave Parts 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.

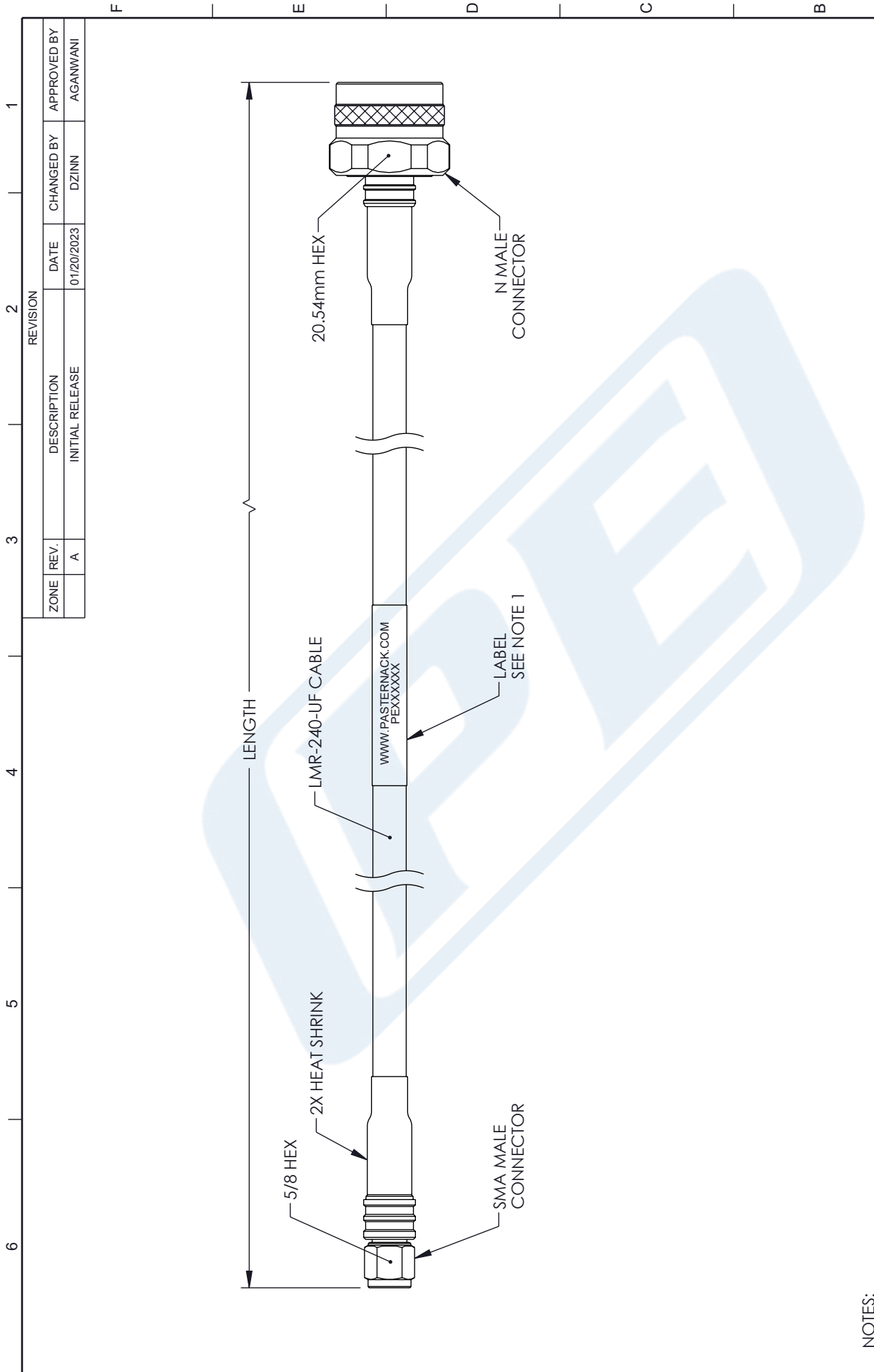
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URL: <https://www.pasternack.com/sma-male-to-n-male-low-loss-cable-using-lmr-240-uf-with-heatshrink-pe3w09712-hs-p.aspx>

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.

# PE3W09712/HS CAD Drawing

## SMA Male to N Male Low Loss Cable Using LMR-240-UF Coax With Times Microwave Parts with HeatShrink



**NOTES:**

1. 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.
  2. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
- THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INFINITE ELECTRONICS, INC. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF INFINITE ELECTRONICS, INC. IS PROHIBITED. THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.

<p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS</p> <p>TOLERANCES:          .X = ±.2 [ .5 ]    FRACTIONS ±.1/32          .XX = ±.02 [ .5 ]    ANGLES ± 1°          .XXX = ±.005 [ .13 ]</p> <p>CABLE LENGTH TOLERANCES:          &gt;12 [305] = +1 [25] / -0          &gt;12 [305] ≤ 60 [1524] = +2 [51] / -0          &gt;60 [1524] ≤ 120 [3048] = +4 [102] / -0          &gt;120 [3048] ≤ 300 [7620] = +6 [152] / -0          &gt;300 [7620] = +5% / -0</p> <p>ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE.</p>	 Website: <a href="http://www.Pasternack.com">www.Pasternack.com</a> Phone: 1.866.727.8376   1.949.261.1920	<p>INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5</p> <p>SCALE: NONE</p> <p>SHEET: 1 OF 1</p> <p>DESCRIPTION: SMA MALE TO N MALE LOW LOSS CABLE USING LMR-240-UF COAX WITH HEATSHRINK WITH TIMES MICROWAVE COMPONENTS</p>
<p>ZONE</p> <p>REV. A</p> <p>DESCRIPTION: INITIAL RELEASE</p> <p>DATE: 01/20/2023</p> <p>CHANGED BY: DZINN</p> <p>APPROVED BY: AGANWANI</p>	<p>SIZE: A</p> <p>CAGE CODE: 53919</p> <p>DRAWN BY: DZINN</p> <p>ITEM NO.: PE3W09712-HS</p>	<p>REV. A</p>