



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

### RF Cable Assemblies Technical Data Sheet

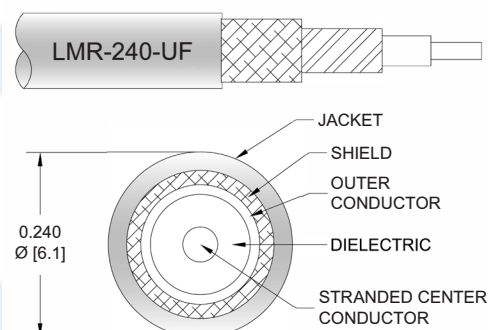
**PE3C1491/SP**

#### Configuration

- Connector 1: TNC Male Right Angle
- Connector 2: SMA Male
- 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 PE3C1491/SP TNC male right angle to SMA 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 TNC to SMA cable assembly has a male to male gender configuration with 50 ohm flexible LMR-240-UF coax. The PE3C1491/SP TNC male to SMA male cable assembly operates to 5.8 GHz. The right angle TNC 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: [TNC Male Right Angle to SMA Male Low Loss Cable Using LMR-240-UF Coax with Heat-Shrink, LF Solder PE3C1491/SP](#)



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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]		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.)	0.046	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 SMA male connector and 0.2 for the TNC male connector.

#### Mechanical Specifications

##### Cable Assembly

Weight 0.095 lbs [43.09 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]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [TNC Male Right Angle to SMA Male Low Loss Cable Using LMR-240-UF Coax with Heat-Shrink, LF Solder PE3C1491/SP](#)



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**PE3C1491/SP**

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	TNC Male Right Angle	SMA Male
Impedance	50 Ohms	50 Ohms
Mating Cycles		500
Contact Material and Plating	Brass, Gold	Brass, Gold
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Gold
Coupling Nut Material and Plating	Brass, Nickel	Brass, Gold
Hex Size		5/16 inch
Torque		3 in-lbs [0.34 Nm]

### Environmental Specifications

#### Temperature

Operating Range	-40 to +85 deg C
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**Compliance Certifications** (see [product page](#) for current document)

### Plotted and Other Data

Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [TNC Male Right Angle to SMA Male Low Loss Cable Using LMR-240-UF Coax with Heat-Shrink, LF Solder PE3C1491/SP](#)



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

### RF Cable Assemblies Technical Data Sheet

**PE3C1491/SP**

#### How to Order

Part Number Configuration:

**PE3C1491/SP**

- **xx**

**uu**

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

Example: PE3C1491/SP-12 = 12 inches long cable  
PE3C1491/SP-100cm = 100 cm long cable

TNC Male Right Angle to SMA Male Low Loss Cable Using LMR-240-UF Coax with HeatShrink, LF Solder 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.

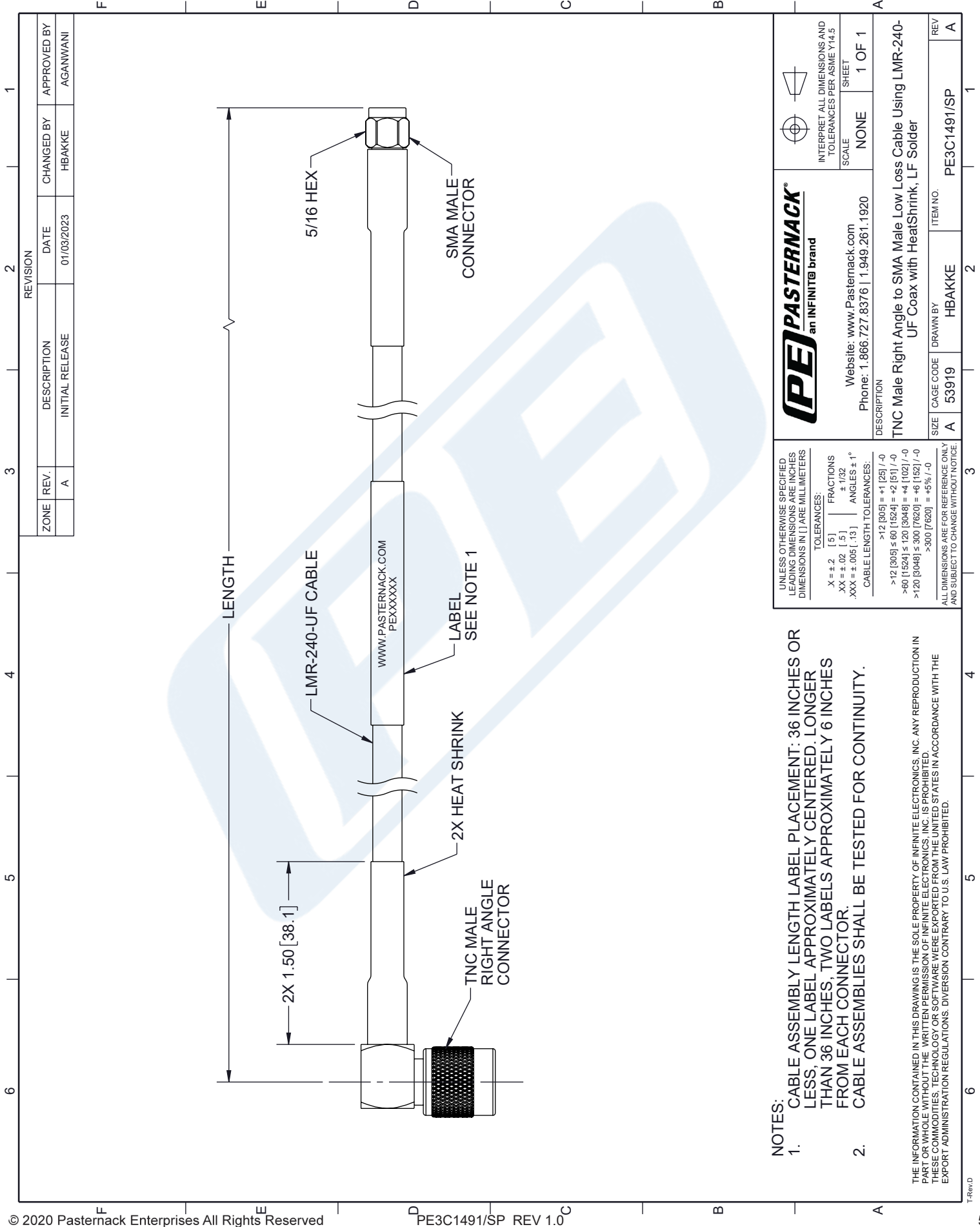
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URL: <https://www.pasternack.com/tnc-male-right-angle-to-sma-male-low-loss-cable-using-lmr-240-uf-with-heatshrink-lf-solder-pe3c1491-sp-p.aspx>

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PE3C1491/SP CAD Drawing

TNC Male Right Angle to SMA Male Low Loss Cable Using  
LMR-240-UF Coax with HeatShrink, LF Solder



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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Website: <a href="http://www.Pasternack.com">www.Pasternack.com</a> Phone: 1.866.727.8376   1.949.261.1920		
DESCRIPTION TNC Male Right Angle to SMA Male Low Loss Cable Using LMR-240-UF Coax with HeatShrink, LF Solder		
SIZE	CAGE CODE	ITEM NO.
A	53919	PE3C1491/SP
REV	DRAWN BY	REV
A	HBAKKE	A