



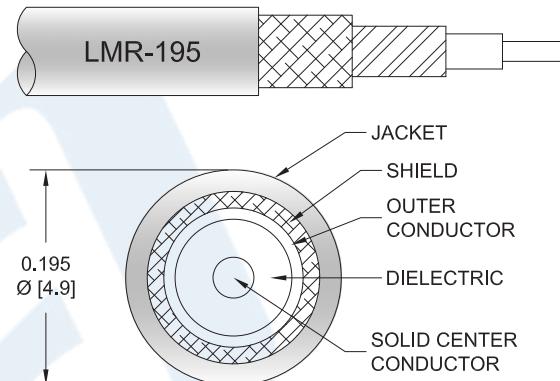
## TNC Male Right Angle to Straight Cut Lead Low Loss Cable Using LMR-195 Coax

### RF Cable Assemblies Technical Data Sheet

**PE3C7431**

#### Configuration

- Connector 1: TNC Male Right Angle
- Connector 2: Straight Cut Lead
- Cable Type: LMR-195



#### Features

- Shielding Effectivity > 90 dB
- 80% Phase Velocity
- Double Shielded
- PE Jacket

#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3C7431 50 ohm TNC male right angle to straight cut lead cable using LMR-195 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. The right angle TNC interface on the LMR-195 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.

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Velocity of Propagation		80		%
RF Shielding	90			dB
Group Delay		1.27 [4.17]		ns/ft [ns/m]
Capacitance		25.4 [83.33]		pF/ft [pF/m]
Inductance		0.064 [0.21]		uH/ft [uH/m]
DC Resistance Inner Conductor		7.6 [24.93]		$\Omega/1000\text{ft}$ [ $\Omega/\text{Km}$ ]
DC Resistance Outer Conductor		4.9 [16.08]		$\Omega/1000\text{ft}$ [ $\Omega/\text{Km}$ ]
Jacket Spark			3,000	Vrms

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 Straight Cut Lead Low Loss Cable Using LMR-195 Coax PE3C7431](#)



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#### Mechanical Specifications

##### Cable Assembly

Weight	0.085 lbs [38.56 g]
<b>Cable</b>	
Cable Type	LMR-195
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	0.195 in [4.95 mm]
One Time Minimum Bend Radius	0.5 in [12.7 mm]
Repeated Minimum Bend Radius	2 in [50.8 mm]
Bending Moment	0.2 lbs-ft [0.27 N-m]
Flat Plate Crush	15 lbs/in [0.27 Kg/mm]
Tensile Strength	40 lbs [18.14 Kg]

##### Connectors

Description	Connector 1	Connector 2
Type	TNC Male Right Angle	Straight Cut Lead
Specification	MIL-STD-348A	
Impedance	50 Ohms	0 Ohms
Contact Material and Plating	Brass, Gold	
Contact Plating Specification	30 $\mu$ in minimum	
Dielectric Type	PTFE	
Body Material and Plating	Brass, Nickel	
Body Plating Specification	100 $\mu$ in minimum	
Coupling Nut Material and Plating	Brass, Nickel	
Coupling Nut Plating Specification	100 $\mu$ in minimum	

#### 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 Straight Cut Lead Low Loss Cable Using LMR-195 Coax PE3C7431](#)



## TNC Male Right Angle to Straight Cut Lead Low Loss Cable Using LMR-195 Coax

### RF Cable Assemblies Technical Data Sheet

**PE3C7431**

#### How to Order

Part Number Configuration:

**PE3C7431**- **xx****uu**

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

Example: PE3C7431-12 = 12 inches long cable  
PE3C7431-100cm = 100 cm long cable

TNC Male Right Angle to Straight Cut Lead Low Loss Cable Using LMR-195 Coax 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.

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 Straight Cut Lead Low Loss Cable Using LMR-195 Coax PE3C7431](#)

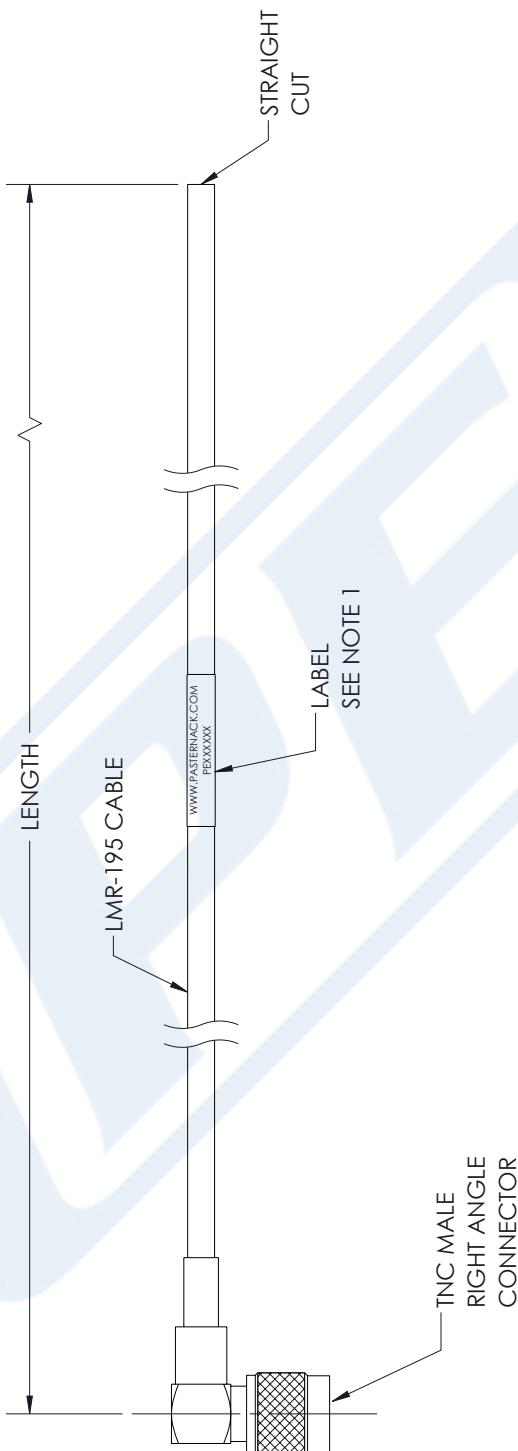
URL: <https://www.pasternack.com/tnc-male-right-angle-to-straight-cut-lead-low-loss-cable-using-lmr-195-pe3c7431-p.aspx>

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.

PE3C7431 CAD Drawing

## TNC Male Right Angle to Straight Cut Lead Low Loss Cable Using LMR-195 Coax

ZONE	REV.	DESCRIPTION	DATE	CHANGED BY	APPROVED BY
	A	INITIAL RELEASE	12/14/2022		AGANWANI



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.

## NOTES:

1. CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES

2 CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY FROM EACH CONNECTOR.

 <b>PASTERNACK®</b> an INFINITI® brand			INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5	
			SCALE NONE	SHEET 1 OF 1
OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. DIMENSIONS IN [ ] ARE MILLIMETERS.	FRACTIONS [5] 2 [5] 105 [1.3]	ANGLES ± 152° [5] 105 [1.3]	DESCRIPTION Website: <a href="http://www.Pasternack.com">www.Pasternack.com</a> Phone: 1.866.727.8376   1.949.261.1920	ITEM NO. PE3C7431
TOLERANCES: [5] 2 [5] 105 [1.3]	LENGTH TOLERANCES: [5] 2 [5] 105 [1.3]			SIZE A CAGE CODE 53919 DRAWN BY BPUCHASKI REV A
$>12[305] = +1[25] / -0$ $5[5] \leq 60[1.3] \leq 120[3.048] = +4[102] / -0$ $3[1] = 300[7.620] = +6[152] / -0$ $>300[7.620] = -5\% / -0$				

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