



TNC Male Right Angle to SMA Male Low Loss  
Cable Using LMR-400-UF Coax Times Microwave  
Components with HeatShrink, LF Solder

## RF Cable Assemblies Technical Data Sheet

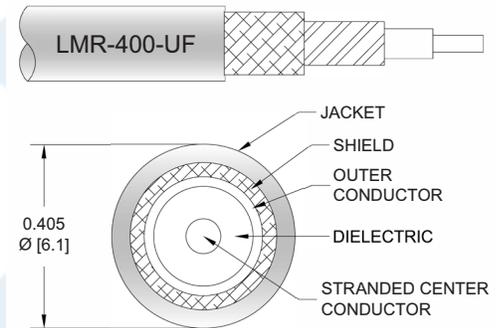
**PE3W07119LF/HS**

### Configuration

- Connector 1: TNC Male Right Angle
- Connector 2: SMA Male
- Cable Type: LMR-400-UF

### Features

- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 85% Phase Velocity
- Double Shielded
- TPE Jacket



### Applications

- General Purpose
- Laboratory Use

### Description

Pasternack's PE3W07119LF/HS TNC male right angle to SMA male cable using LMR-400-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-400-UF coax. The PE3W07119LF/HS TNC male to SMA male cable assembly operates to 5.8 GHz. The right angle TNC interface on the LMR-400-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-400-UF Coax Times Microwave Components with HeatShrink, LF Solder PE3W07119LF/HS](#)



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### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		5.8	GHz
VSWR			1.4:1	
Velocity of Propagation		85		%
RF Shielding	90			dB
Group Delay		1.2 [3.94]		ns/ft [ns/m]
Capacitance		23.9 [78.41]		pF/ft [pF/m]
Inductance		0.06 [0.2]		uH/ft [uH/m]
DC Resistance Inner Conductor		1.07 [3.51]		$\Omega$ /1000ft [ $\Omega$ /Km]
DC Resistance Outer Conductor		1.65 [5.41]		$\Omega$ /1000ft [ $\Omega$ /Km]
Jacket Spark			8,000	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.)	0.023	0.034	0.049	0.081	0.13	dB/ft
	0.08	0.11	0.16	0.27	0.43	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 dB for the TNC male connector.

### Mechanical Specifications

#### Cable Assembly

Weight 0.247 lbs [112.04 g]

#### Cable

Cable Type LMR-400-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 0.405 in [10.29 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-400-UF Coax Times Microwave Components with HeatShrink, LF Solder PE3W07119LF/HS](#)



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One Time Minimum Bend Radius	1 in [25.4 mm]
Repeated Minimum Bend Radius	4 in [101.6 mm]
Bending Moment	0.38 lbs-ft [0.52 N-m]
Flat Plate Crush	20 lbs/in [0.36 Kg/mm]
Tensile Strength	160 lbs [72.57 Kg]

### Connectors

Description	Connector 1	Connector 2
Type	TNC Male Right Angle	SMA Male
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Silver	Brass, Gold
Contact Plating Specification		50 $\mu$ " Min
Dielectric Type	PTFE	Teflon
Body Material and Plating	Brass, Silver	Brass, Tri-Metal
Coupling Nut Material and Plating	Brass, Silver	Brass, Tri-Metal

### Environmental Specifications

#### Temperature

Operating Range -40 to +85 deg C

**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-400-UF Coax Times Microwave Components with HeatShrink, LF Solder PE3W07119LF/HS](#)



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**RF Cable Assemblies Technical Data Sheet**

**PE3W07119LF/HS**

**How to Order**

Part Number Configuration:

**PE3W07119LF/HS - xx uu**

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

Example: PE3W07119LF/HS-12 = 12 inches long cable  
PE3W07119LF/HS-100cm = 100 cm long cable

TNC Male Right Angle to SMA Male Low Loss Cable Using LMR-400-UF Coax Times Microwave Components 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.

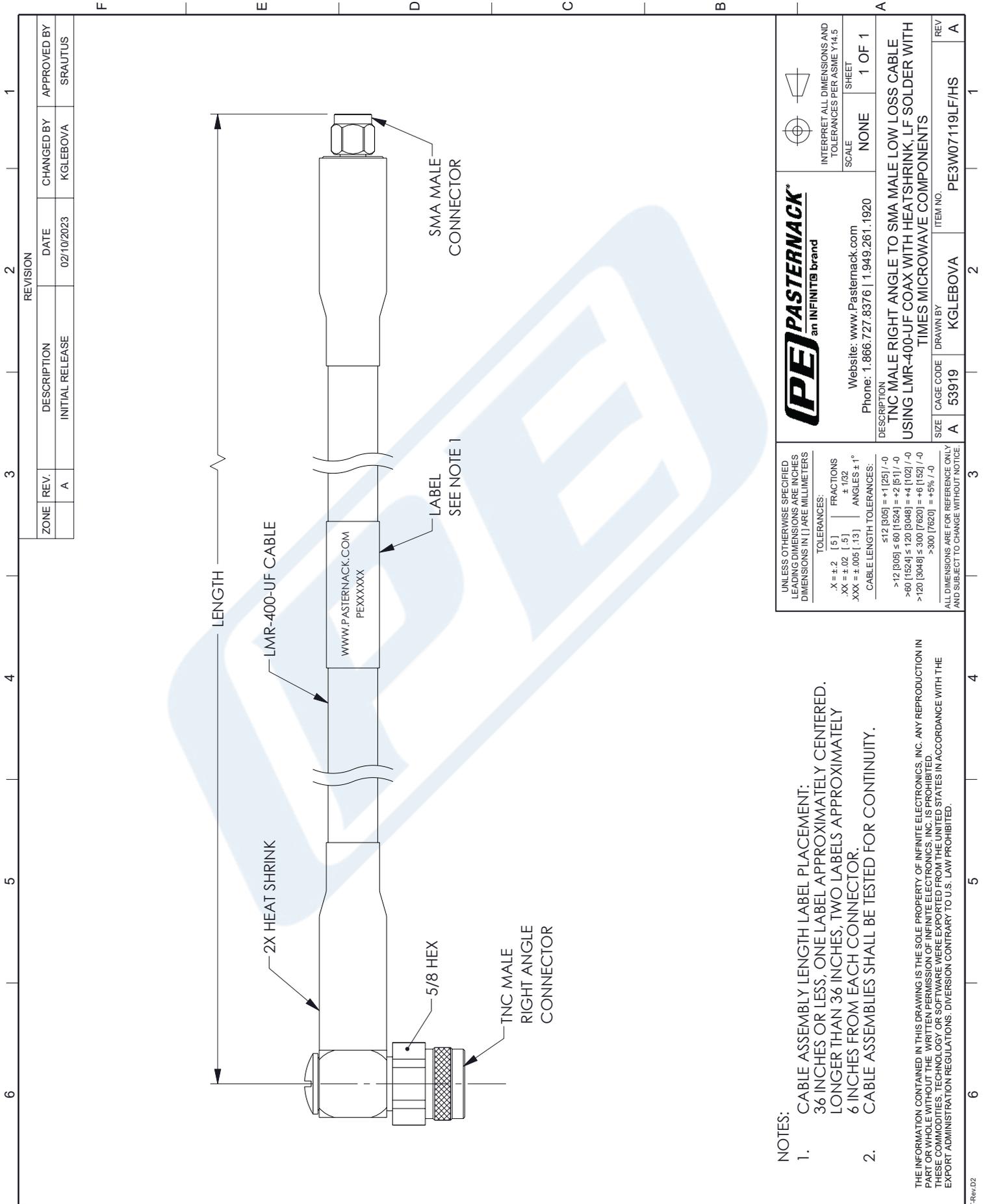
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URL: <https://www.pasternack.com/tnc-male-right-angle-to-sma-male-low-loss-cable-using-lmr-400-uf-with-heatshrink-lf-solder-pe3w07119lf-hs-p.aspx>

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# PE3W07119LF/HS CAD Drawing

TNC Male Right Angle to SMA Male Low Loss Cable Using LMR-400-UF Coax Times Microwave Components 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: [www.Pasternack.com](http://www.Pasternack.com)  
Phone: 1.866.727.8376 | 1.949.261.1920

DESCRIPTION: TNC MALE RIGHT ANGLE TO SMA MALE LOW LOSS CABLE USING LMR-400-UF COAX WITH HEATSHRINK, LF SOLDER WITH TIMES MICROWAVE COMPONENTS

SCALE: NONE SHEET: 1 OF 1

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	53919	KGLEBOVA	PE3W07119LF/HS

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