

## TNC Male to N Male Low Loss Cable Using LMR-200 Coax with HeatShrink, LF Solder



### RF Cable Assemblies Technical Data Sheet

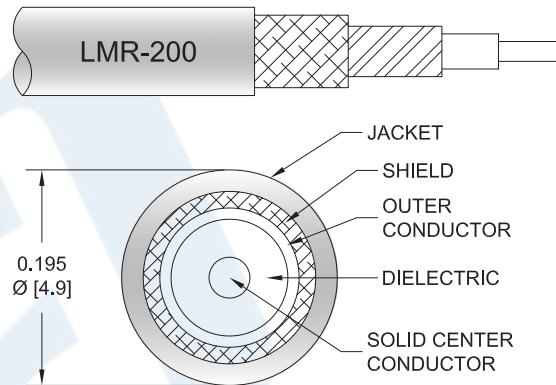
**PE3W01920LF/HS**

#### Configuration

- Connector 1: TNC Male
- Connector 2: N Male
- Cable Type: LMR-200

#### Features

- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 83% Phase Velocity
- Double Shielded
- PE Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W01920LF/HS TNC male to type N male cable using LMR-200 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 type N cable assembly has a male to male gender configuration with 50 ohm flexible LMR-200 coax. The PE3W01920LF/HS TNC male to type N male cable assembly operates to 5.8 GHz. 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 to N Male Low Loss Cable Using LMR-200 Coax with HeatShrink, LF Solder PE3W01920LF/HS](#)

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PE3W01920LF/HS

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		5.8	GHz
VSWR			1.5:1	
Velocity of Propagation		83		%
RF Shielding	90			dB
Group Delay		1.22 [4]		ns/ft [ns/m]
Capacitance		24.5 [80.38]		pF/ft [pF/m]
Inductance		0.061 [0.2]		uH/ft [uH/m]
DC Resistance Inner Conductor		5.36 [17.59]		Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor		4.9 [16.08]		Ω/1000ft [Ω/Km]
Jacket Spark			3,000	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.)	0.05	0.073	0.104	0.169	0.264	dB/ft
	0.16	0.24	0.34	0.55	0.87	dB/m

#### Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

#### Mechanical Specifications

##### Cable Assembly

Weight 0.132 lbs [59.87 g]

##### Cable

Cable Type LMR-200  
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]

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## TNC Male to N Male Low Loss Cable Using LMR-200 Coax with HeatShrink, LF Solder



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**PE3W01920LF/HS**

Repeated Minimum Bend Radius  
Bending Moment  
Flat Plate Crush  
Tensile Strength

2 in [50.8 mm]  
0.2 lbs-ft [0.27 N-m]  
15 lbs/in [0.27 Kg/mm]  
40 lbs [18.14 Kg]

#### Connectors

Description	Connector 1	Connector 2
Type	TNC Male	N Male
Specification	MIL-STD-348A	MIL-STD-348
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	30 $\mu$ in. minimum	
Dielectric Type	Teflon	PTFE
Body Material and Plating	Brass, Nickel	Brass, Tri-Metal
Body Plating Specification	100 $\mu$ in. minimum	
Coupling Nut Material and Plating		Phosphor Bronze
Hex Size		13/16 Inch

#### 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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**RF Cable Assemblies Technical Data Sheet**

**PE3W01920LF/HS**

**How to Order**

Part Number Configuration:

**PE3W01920LF/HS - xx**

**uu**

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

Example: PE3W01920LF/HS-12 = 12 inches long cable  
PE3W01920LF/HS-100cm = 100 cm long cable

TNC Male to N Male Low Loss Cable Using LMR-200 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.

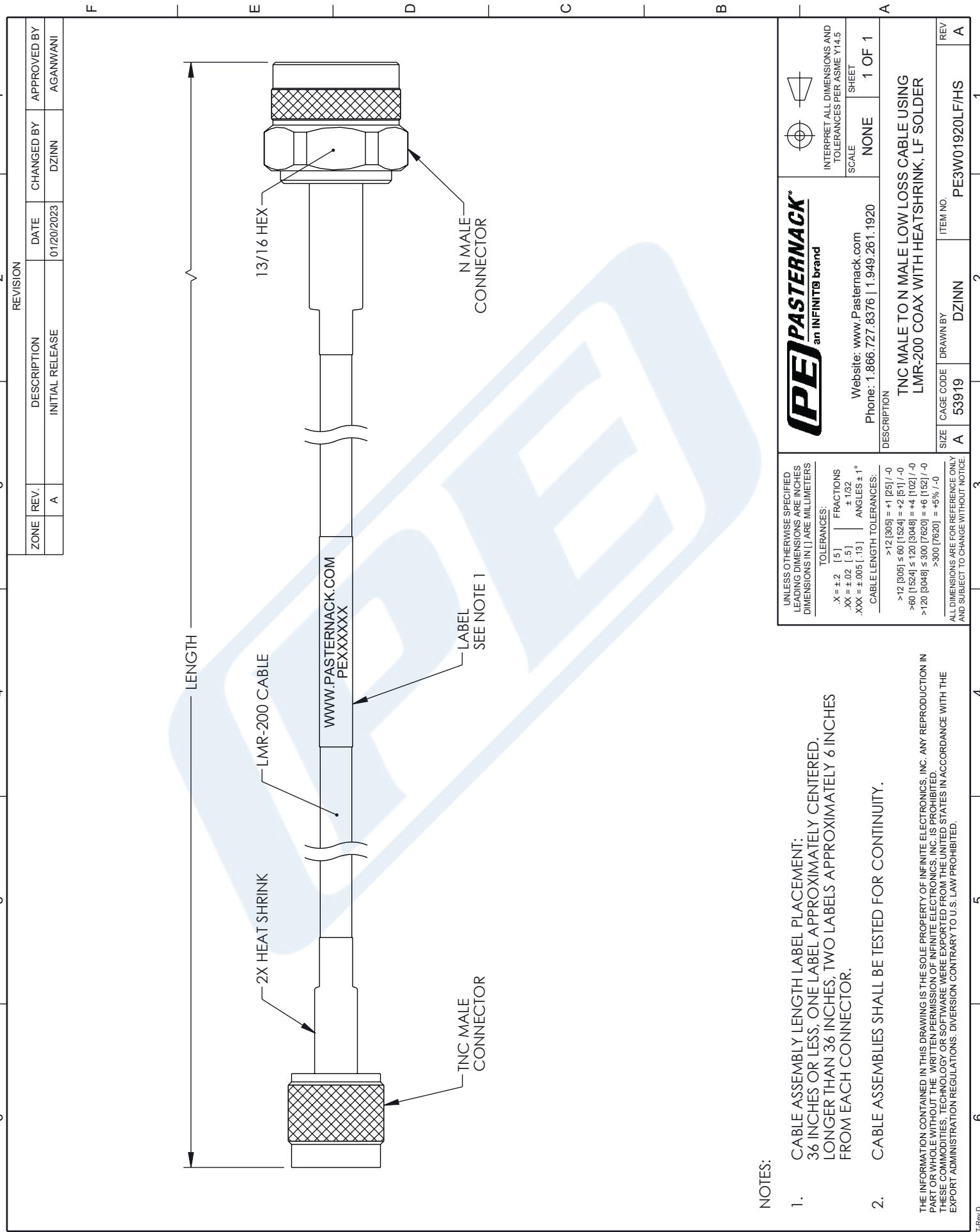
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URL: <https://www.pasternack.com/tnc-male-to-n-male-low-loss-cable-using-lmr-200-with-heatshrink-lf-solder-pe3w01920lf-hs-p.aspx>

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.

# PE3W01920LF/HS CAD Drawing

TNC Male to N Male Low Loss Cable Using LMR-200 Coax with HeatShrink, LF Solder



 <b>PATERNACK</b> an INFINITI® brand	
INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE	
1 OF 1	
NONE	
DESCRIPTION	PE3W01920LF/HS
ITEM NO.	
REV	A

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS
TOLERANCES:
$X = \pm .2$ [ .5 ] FRACTIONS $XX = \pm .02$ [ .5 ] $.XXX = \pm .005$ [ .13 ] ANGLES $\pm 1^\circ$ CABLE LENGTH TOLERANCES: $>12 [305] = \pm 1$ $>12 [305] < 80 [1524] = \pm 2 [51] / -0$ $>60 [1524] \leq 120 [3048] = \pm 4 [102] / -0$ $>120 [3048] \leq 300 [7620] = \pm 6 [152] / -0$ $>300 [7620] = \pm 5\% / -0$
ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE