

N Female to TNC Male Low Loss Cable Using LMR-400-UF Coax With Times Microwave Components



RF Cable Assemblies Technical Data Sheet

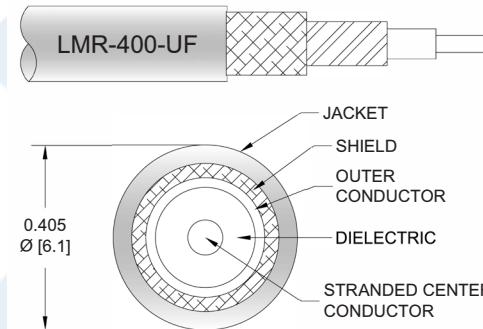
PE3W09315

Configuration

- Connector 1: N Female
- Connector 2: TNC 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 PE3W09315 type N female to TNC 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 type N to TNC cable assembly has a female to male gender configuration with 50 ohm flexible LMR-400-UF coax. The PE3W09315 type N female to TNC 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: [N Female to TNC Male Low Loss Cable Using LMR-400-UF Coax With Times Microwave Components PE3W09315](#)

N Female to TNC Male Low Loss Cable Using LMR-400-UF Coax With Times Microwave Components



RF Cable Assemblies Technical Data Sheet

PE3W09315

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]		Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor		1.65 [5.41]		Ω/1000ft [Ω/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	0.129	dB/ft
	0.08	0.11	0.16	0.27	0.42	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

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]
One Time Minimum Bend Radius	1 in [25.4 mm]
Repeated Minimum Bend Radius	4 in [101.6 mm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Female to TNC Male Low Loss Cable Using LMR-400-UF Coax With Times Microwave Components PE3W09315](#)



N Female to TNC Male Low Loss Cable Using LMR-400-UF Coax With Times Microwave Components

RF Cable Assemblies Technical Data Sheet

PE3W09315

Bending Moment
Flat Plate Crush
Tensile Strength

0.38 lbs-ft [0.52 N-m]
20 lbs/in [0.36 Kg/mm]
160 lbs [72.57 Kg]

Connectors

Description	Connector 1	Connector 2
Type	N Female	TNC Male
Specification	MIL-STD-348	
Impedance	50 Ohms	50 Ohms
Mating Cycles		500
Contact Material and Plating	Copper, Gold	Brass, Gold
Dielectric Type	PTFE	
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Material and Plating	Brass, Tri-Metal	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: [N Female to TNC Male Low Loss Cable Using LMR-400-UF Coax With Times Microwave Components PE3W09315](#)

N Female to TNC Male Low Loss Cable Using LMR-400-UF Coax With Times Microwave Components



RF Cable Assemblies Technical Data Sheet

PE3W09315

How to Order

Part Number Configuration:

PE3W09315

- **xx** **uu**

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

Example: PE3W09315-12 = 12 inches long cable
PE3W09315-100cm = 100 cm long cable

N Female to TNC Male Low Loss Cable Using LMR-400-UF Coax With Times Microwave Components 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: [N Female to TNC Male Low Loss Cable Using LMR-400-UF Coax With Times Microwave Components PE3W09315](#)

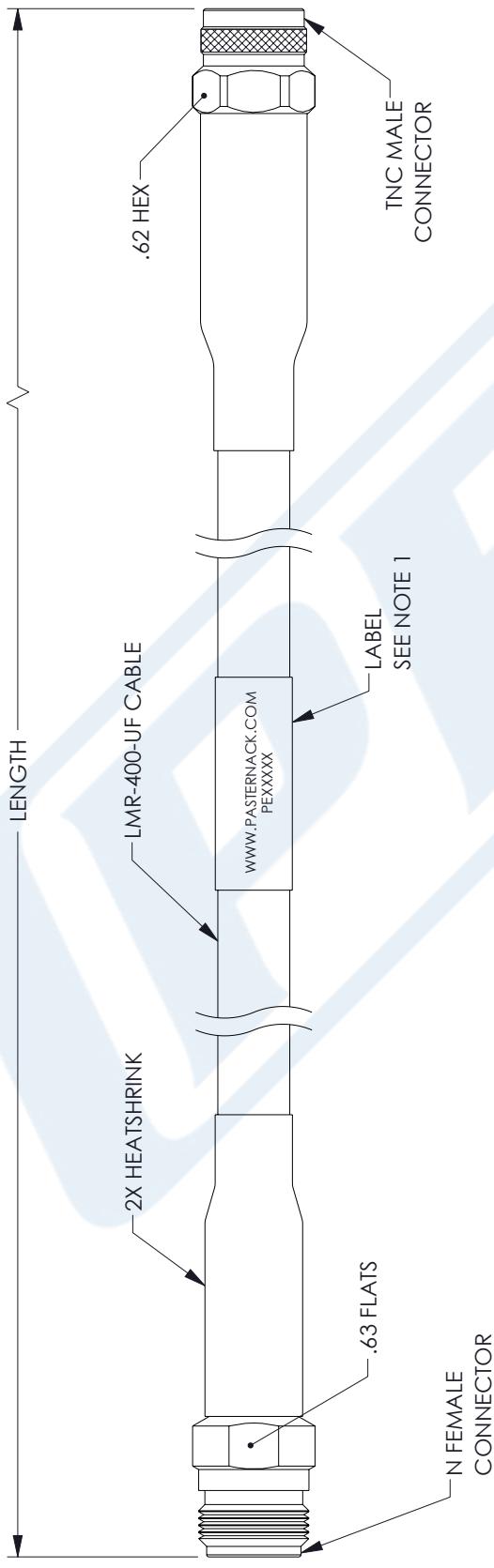
URL: <https://www.pasternack.com/n-female-to-tnc-male-low-loss-cable-using-lmr-400-uf-pe3w09315-p.aspx>

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.

PE3W09315 CAD Drawing

N Female to TNC Male Low Loss Cable Using LMR-400-UF Coax With Times Microwave Components

Z		REV.		DESCRIPTION		REVISION		APPROVED BY	
ZONE	REV.	A	INITIAL RELEASE			DATE	CHANGED BY	SRAUTUS	
						12/06/2022			



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.
CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
 - 2.

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.

 PASTERNACK® an INFINITI® brand				INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5		REV A
TOLERANCES: [5] FRACTIONS [2] ±1/32 [05] ANGLES $\pm 1^\circ$ [13] LENGTH TOLERANCES: [2] ±1/32 [05] ±0.005 [13] ±0.013		SCALE NONE		SHEET 1 OF 1		
DESCRIPTION N FEMALE TO TNC MALE LOW LOSS COAX CABLE USING LMR-400-U.F. COAX WITH TIMES MICROWAVE COMPONENTS		WEBSITE: www.Pasternack.com PHONE: 1.866.727.8376 1.949.261.1920		ITEM NO. PE3W09315		
SIZE A	CAGE CODE 53919	DRAWN BY DMA5				
NOTES ARE FOR REFERENCE ONLY DO NOT CHANGE WITHOUT NOTICE.						