



N Male to N Male Right Angle Low Loss Cable Using LMR-600-UF Coax With Times Microwave Components

RF Cable Assemblies Technical Data Sheet

PE3C8997

Configuration

- Connector 1: N Male
- Connector 2: N Male Right Angle
- Cable Type: LMR-600-UF

Features

- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 87% Phase Velocity
- Double Shielded
- TPE Jacket

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C8997 type N male to type N male right angle cable using LMR-600-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 type N cable assembly has a male to male gender configuration with 50 ohm flexible LMR-600-UF coax. The PE3C8997 type N male to type N male cable assembly operates to 5.8 GHz. The right angle type N interface on the LMR-600-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: [N Male to N Male Right Angle Low Loss Cable Using LMR-600-UF Coax With Times Microwave Components PE3C8997](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		5.8	GHz
VSWR			1.4:1	
Velocity of Propagation		87		%
RF Shielding	90			dB
Group Delay		1.17 [3.84]		ns/ft [ns/m]
Capacitance		23.4 [76.77]		pF/ft [pF/m]
Inductance		0.058 [0.19]		uH/ft [uH/m]
DC Resistance Inner Conductor		0.43 [1.41]		Ω /1000ft [Ω /Km]
DC Resistance Outer Conductor		1.2 [3.94]		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.)	0.014	0.022	0.031	0.053	0.087	dB/ft
	0.05	0.07	0.1	0.17	0.29	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 N Male straight connector and 0.2 dB for the N Male right angle connector.

Mechanical Specifications

Cable Assembly

Weight 0.556 lbs [252.2 g]

Cable

Cable Type LMR-600-UF
 Impedance 50 Ohms
 Inner Conductor Type Stranded
 Inner Conductor Material and Plating Copper
 Dielectric Type Foam PE
 Number of Shields 2
 Shield Layer 1 Aluminum Tape
 Shield Layer 2 Tinned Copper
 Jacket Material TPE, Black
 Jacket Diameter 0.59 in [14.99 mm]

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One Time Minimum Bend Radius	1.5 in [38.1 mm]
Repeated Minimum Bend Radius	6 in [152.4 mm]
Bending Moment	1.75 lbs-ft [2.37 N-m]
Flat Plate Crush	40 lbs/in [0.71 Kg/mm]
Tensile Strength	350 lbs [158.76 Kg]

Connectors

Description	Connector 1	Connector 2
Type	N Male	N Male Right Angle
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Specification	1.27µm minimum	1.27µm minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification	2µm minimum	2µm minimum
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Plating Specification	2µm minimum	2µm minimum
Hex Size	20.57 mm	20.57 mm
Torque	44 in-lbs [4.97 Nm]	44 in-lbs [4.97 Nm]

Environmental Specifications

Temperature

Operating Range

-40 to +85 deg C

Shock

MIL-STD-202G, Method 213, Condition I

Vibration

MIL-STD-202G, Method 204, Condition B

Thermal Shock

MIL-STD-202G, Method 107, Condition B

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

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How to Order

Part Number Configuration:

PE3C8997

- **xx**

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

Example: PE3C8997-12 = 12 inches long cable
PE3C8997-100cm = 100 cm long cable

N Male to N Male Right Angle Low Loss Cable Using LMR-600-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.

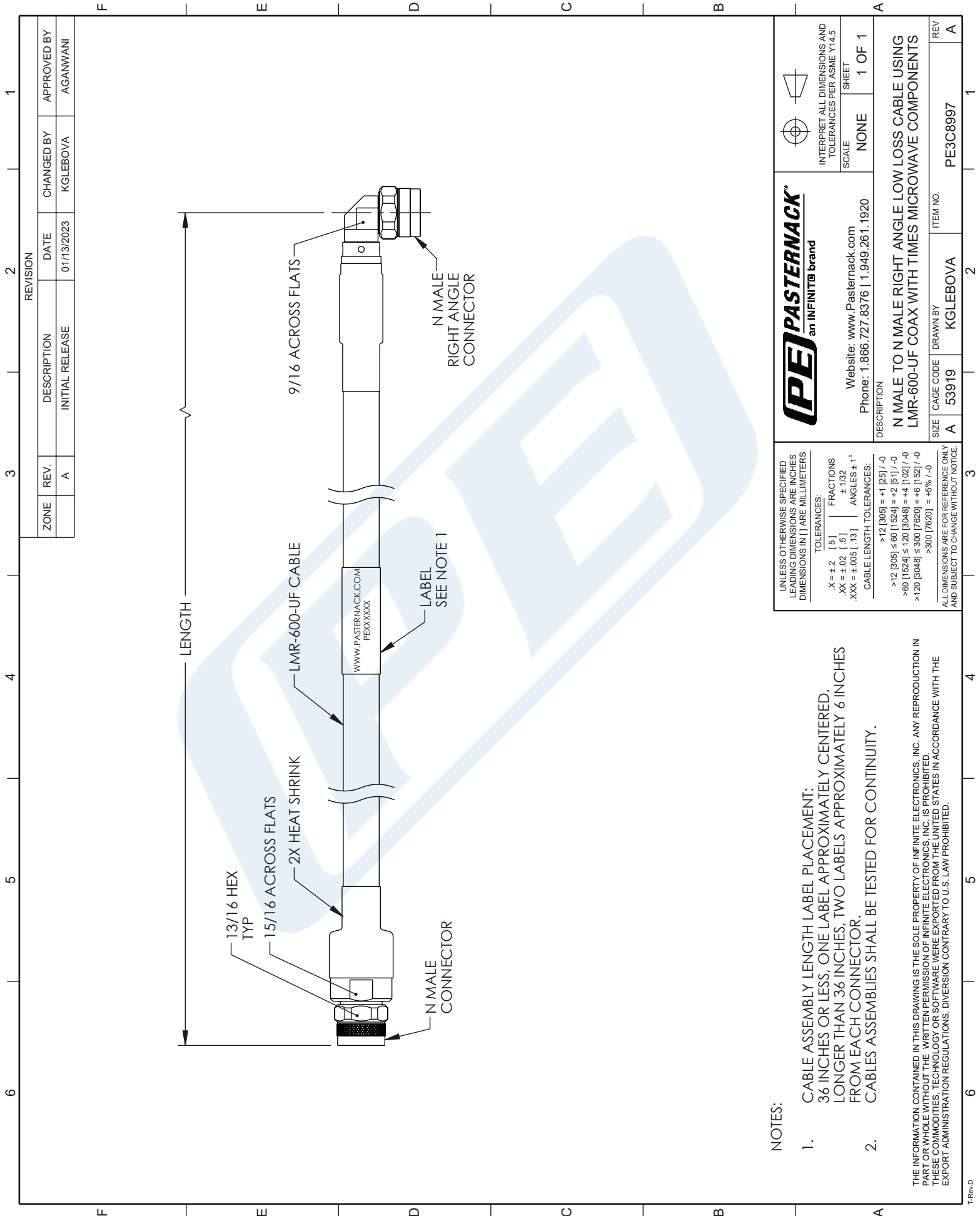
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URL: <https://www.pasternack.com/n-male-to-n-male-low-loss-cable-using-lmr-600-uf-pe3c8997-p.aspx>

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.

PE3C8997 CAD Drawing

N Male to N Male Right Angle Low Loss Cable Using LMR-600-UF Coax With Times Microwave Components



REVISION		DATE	CHANGED BY	APPROVED BY		
ZONE	REV.	DESCRIPTION	INITIAL RELEASE	01/13/2023	KGLEBOVA	AGANWANI
	A					

PE PASTERNAK
an INFINITO brand

Website: www.Pasternack.com
Phone: 1.866.727.8376 | 1.949.261.1920

DESCRIPTION
N MALE TO N MALE RIGHT ANGLE LOW LOSS CABLE USING LMR-600-UF COAX WITH TIMES MICROWAVE COMPONENTS

SCALE: NONE SHEET: 1 OF 1

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:
 .X = ±.2 [.5] FRACTIONS ±.1/32
 .XX = ±.02 [.5] ±.1/32
 .XXX = ±.005 [.13] ANGLES ± 1°
 CABLE LENGTH TOLERANCES:
 >12 [305] = +1 [25] / -0
 >12 [305] ≤ 60 [1524] = +2 [51] / -0
 >60 [1524] ≤ 120 [3048] = +4 [102] / -0
 >120 [3048] ≤ 300 [7620] = +6 [152] / -0
 >300 [7620] = +5% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE.

- 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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