



## N Male to N Male Low Loss Cable Using LMR-600-UF Coax Using Times Microwave Components

### RF Cable Assemblies Technical Data Sheet

PE3C7615

#### Configuration

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

#### Features

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

#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3C7615 type N male to type N male 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 PE3C7615 type N 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: [N Male to N Male Low Loss Cable Using LMR-600-UF Coax Using Times Microwave Components PE3C7615](#)



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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]
Dielectric Withstanding Voltage (AC)			2,500	Vrms
Dielectric Withstanding Voltage (DC)			4,000	Vdc
Jacket Spark			8,000	Vrms
Input Power (Peak)			40	KWatts

### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	5.8	GHz
Insertion Loss (Typ.)	0.01	0.02	0.03	0.05	0.08	dB/ft
	0.03	0.07	0.1	0.16	0.26	dB/m

#### Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. The Insertion Loss includes an estimated insertion loss of 0.1\*SQRT(FGHz) dB per connector loss.

### Mechanical Specifications

#### Cable Assembly

##### Cable

Cable Type	LMR-600-UF
Impedance	50 Ohms
Inner Conductor Type	Stranded
Inner Conductor Material and Plating	Beryllium Copper
Dielectric Type	PE (F)
Number of Shields	2
Shield Layer 1	Aluminum Tape
Shield Layer 2	Tinned Copper Braid

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Jacket Material	Thermoplastic, Black
Jacket Diameter	0.59 in [14.99 mm]
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
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	50µ in. minimum	50µ in. minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification	100µ in. minimum	100µ in. minimum
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Plating Specification	100µ in. minimum	100µ in. 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
Storage Range	-70 to +85 deg C

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

### Plotted and Other Data

Notes:

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## N Male to N Male Low Loss Cable Using LMR-600-UF Coax Using Times Microwave Components

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PE3C7615

#### How to Order

Part Number Configuration:

**PE3C7615**

- **xx**

**uu**

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

Example: PE3C7615-12 = 12 inches long cable  
PE3C7615-100cm = 100 cm long cable

N Male to N Male Low Loss Cable Using LMR-600-UF Coax Using 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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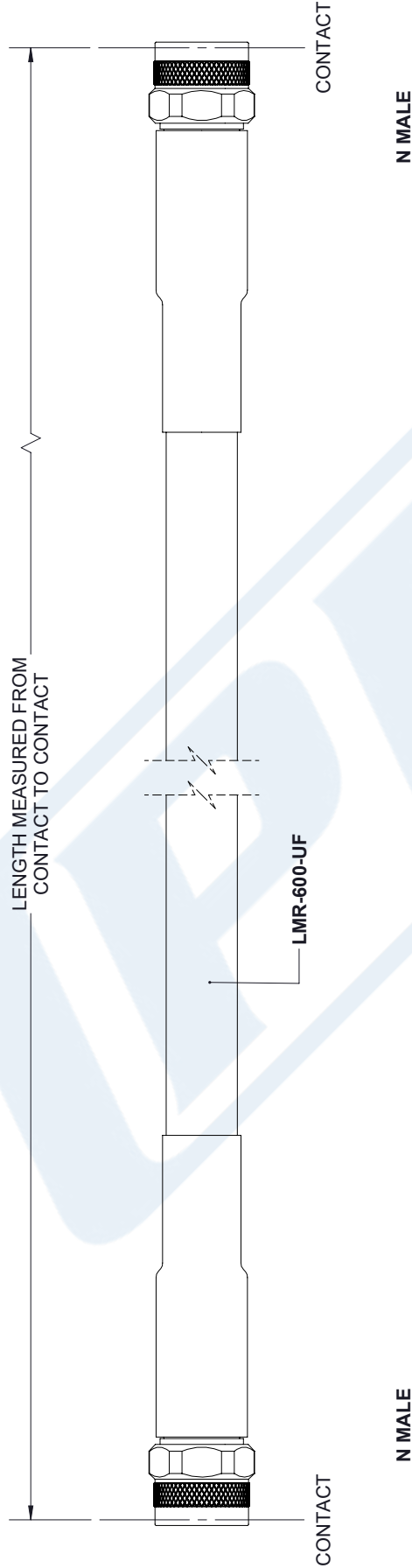
URL: <https://www.pasternack.com/n-male-n-male-lmr-600-uf-cable-assembly-pe3c7615-p.aspx>

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.

# PE3C7615 CAD Drawing

## N Male to N Male Low Loss Cable Using LMR-600-UF UF Coax Using Times Microwave Components

REVISIONS		
REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	4/13/2021
		APPROVED
		S. ELLIS



<p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS</p> <p><b>TOLERANCES:</b></p> <table style="font-size: small;"> <tr> <td>.X = ± .2</td> <td>[.08]</td> <td>FRACTIONS</td> </tr> <tr> <td>.XX = ± .02</td> <td>[.51]</td> <td>± 1/32</td> </tr> <tr> <td>.XXX = ± .005</td> <td>[.13]</td> <td>ANGLES ± 1°</td> </tr> </table> <p><b>CABLE LENGTH (L) TOLERANCES:</b></p> <table style="font-size: small;"> <tr> <td>L ≤ 12 [305]</td> <td>± .1 [25]</td> <td>/ -0</td> </tr> <tr> <td>12 [305] &lt; L ≤ 60 [1524]</td> <td>± .2 [51]</td> <td>/ -0</td> </tr> <tr> <td>60 [1524] &lt; L ≤ 120 [3048]</td> <td>± .4 [102]</td> <td>/ -0</td> </tr> <tr> <td>120 [3048] &lt; L ≤ 300 [7620]</td> <td>± .6 [152]</td> <td>/ -0</td> </tr> <tr> <td>300 [7620] &lt; L ≤ ∞</td> <td>± .9%</td> <td>L / -0</td> </tr> </table> <p>ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.</p>	.X = ± .2	[.08]	FRACTIONS	.XX = ± .02	[.51]	± 1/32	.XXX = ± .005	[.13]	ANGLES ± 1°	L ≤ 12 [305]	± .1 [25]	/ -0	12 [305] < L ≤ 60 [1524]	± .2 [51]	/ -0	60 [1524] < L ≤ 120 [3048]	± .4 [102]	/ -0	120 [3048] < L ≤ 300 [7620]	± .6 [152]	/ -0	300 [7620] < L ≤ ∞	± .9%	L / -0	<p><b>THIRD-ANGLE PROJECTION</b></p> <p>THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNAK CORPORATION. ALL RIGHTS RESERVED.</p> <p>SHEET 1 OF 1</p> <p>SCALE N/A</p>	<p><b>PE PASTERNAK</b> an INFINITI brand</p> <p>Pasternack Enterprises, Inc. P. O. Box 16759, Irvine, CA 92623. Phone: 1.949.261.1920   1.866.727.8376 Fax: 1.949.261.7451 Website: www.pasternack.com E-mail: sales@pasternack.com</p> <p>ITEM NO. PE3C7615</p> <p>SIZE A CAGE CODE 53919 DRAWN BY K.DANG</p> <p>REV A</p>
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