

N Male with Hex Body to N Male with Hex Body Cable Using LMR-600 Coax and Times Connectors

PE3C0112

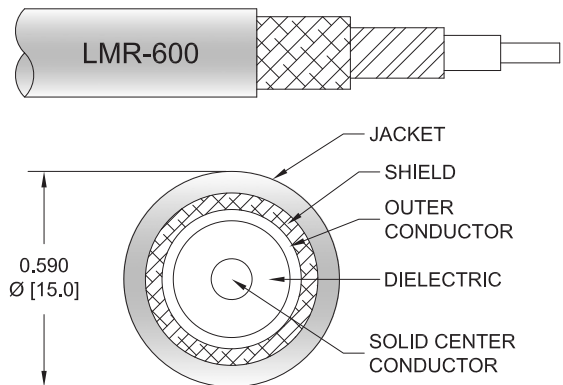


Configuration

- Connector 1: N Male
- Connector 2: N Male
- Cable Type: LMR-600
- Coax Flex Type: Flexible

Features

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



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C0112 type N male to type N male cable using LMR-600 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 coax. The PE3C0112 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.

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		0.53 [1.74]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		1.2 [3.94]		Ohms/1000ft [Ohms/Km]

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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
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.)	0.041	0.058	0.086	0.144	0.238	dB/ft
	0.13	0.19	0.28	0.47	0.78	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

Width/Diameter	0.8 in [20.32 mm]
Weight	0.47 lbs [213.19 g]

Cable

Cable Type	LMR-600
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper Clad Aluminum
Dielectric Type	PE (F)
Number of Shields	2
Shield Layer 1	Aluminum Tape Tinned
Shield Layer 2	Copper Braid PE, Black
Jacket Material	0.59 in [14.99 mm]
Jacket Diameter	1.5 in [38.1 mm]
One Time Minimum Bend Radius	6 in [152.4 mm]
Repeated Minimum Bend Radius	2.75 lbs-ft [3.73 N-m]
Bending Moment	60 lbs/in [1.07 Kg/mm]
Flat Plate Crush	350 lbs [158.76 Kg]
Tensile Strength	

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Connectors

Description	Connector 1	Connector 2
Type	N Male	N Male
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
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

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

Plotted and Other Data

Notes:

Values at 25°C, sea level.

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PE3C0112

Typical Performance Data

How to Order

Part Number Configuration:

PE3C0112

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Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3C0112-12 = 12 inches long cable
PE3C0112-100cm = 100 cm long cable

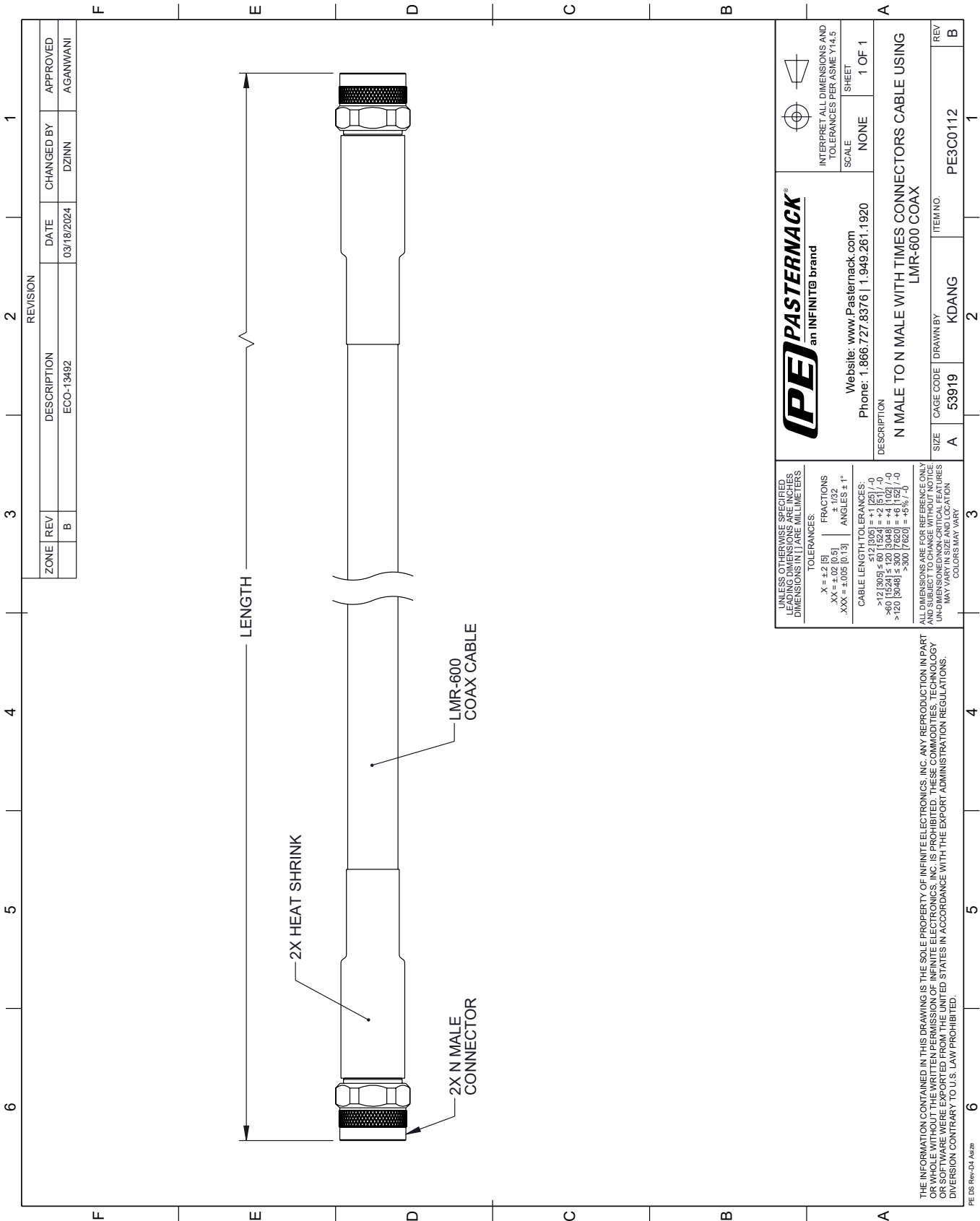
N Male with Hex Body to N Male with Hex Body Cable Using LMR-600 Coax and Times Connectors from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Male with Hex Body to N Male with Hex Body Cable Using LMR-600 Coax and Times Connectors PE3C0112](https://www.pasternack.com/n-male-n-male-lmr600-cable-assembly-pe3c0112-p.aspx)

URL: <https://www.pasternack.com/n-male-n-male-lmr600-cable-assembly-pe3c0112-p.aspx>

The information contained within 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 Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PE3C0112 CAD Drawing
N Male with Hex Body to N Male with Hex Body Cable Using LMR-600 Coax and Times Connectors



REVISION			
ZONE	REV	DESCRIPTION	DATE
	B	ECO-13492	03/18/2024
			CHANGED BY
			DZINN
			APPROVED
			AGANWANI

PE PASTERNAK an INFINITE brand		Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5	
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE IN MILLIMETERS.		TOLERANCES:		SCALE	
X = ±.2 [5]		FRACTIONS		NONE	
.XX = ±.02 [0.5]		± 1/32		SHEET	
.XXX = ±.005 [0.13]		ANGLES ± 1°		1 OF 1	
CABLE LENGTH TOLERANCES:		CABLE LENGTH TOLERANCES:			
>12 [305] ≤ 60 [1524] = ±.125 [-0]		>12 [305] ≤ 60 [1524] = ±.125 [-0]			
>60 [1524] ≤ 120 [3048] = ±.125 [-0]		>60 [1524] ≤ 120 [3048] = ±.125 [-0]			
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>300 [7620] = ±.125 [-0]		>300 [7620] = ±.125 [-0]			
ALL DIMENSIONS ARE FOR REFERENCE ONLY. DIMENSIONS ARE NOT TO BE USED FOR CONSTRUCTION OF THE PART. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE IN MILLIMETERS.		DESCRIPTION			
		N MALE TO N MALE WITH TIMES CONNECTORS CABLE USING LMR-600 COAX			
		ITEM NO.			
		53919			
		DRAWN BY			
		KDANG			
		CAGE CODE			
		A			
		SIZE			
		A			
		REV			
		B			