

N Male to N Male Low Loss Cable Using LMR-600 Coax With Times Microwave Components , LF Solder



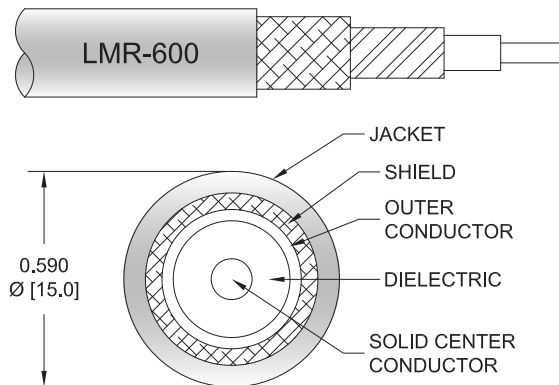
PE3C0112LF

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 PE3C0112LF 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 PE3C0112LF 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]

N Male to N Male Low Loss Cable Using LMR-600 Coax With Times Microwave Components , LF Solder



PE3C0112LF

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.)	0.012	0.017	0.026	0.044	0.073	dB/ft
	0.04	0.06	0.09	0.14	0.24	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	0.5 in [12.7 mm]
Weight	0.4 lbs [181.44 g]

Cable

Cable Type	LMR-600
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating Dielectric Type	Copper Clad Aluminum 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	

N Male to N Male Low Loss Cable Using LMR-600 Coax
With Times Microwave Components , LF Solder



PE3C0112LF

Connectors

Description	Connector 1	Connector 2
Type	N Male	N Male
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Beryllium Bronze, Gold	Beryllium Bronze, 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

Operating Range Temperature -40 to +85 deg C

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

Plotted and Other Data

Notes:

N Male to N Male Low Loss Cable Using LMR-600 Coax With Times Microwave Components , LF Solder



PE3C0112LF

Typical Performance Data

How to Order

Part Number Configuration:

PE3C0112LF **- xx** **uu**

Unit of Measure:
cm = Centimeters
<blank> = Inches

Length

Base Number

Example: PE3C0112LF-12 = 12 inches long cable
 PE3C0112LF-100cm = 100 cm long cable

N Male to N Male Low Loss Cable Using LMR-600 Coax With Times Microwave Components , 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.

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 Coax With Times Microwave Components , LF Solder PE3C0112LF](#)

URL: <https://www.pasternack.com/n-male-to-n-male-low-loss-cable-using-lmr-600-lf-solder-pe3c0112lf-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.

PE3C0112LF CAD Drawing

N Male to N Male Low Loss Cable Using LMR-600 Coax With Times Microwave Components , LF Solder

