

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



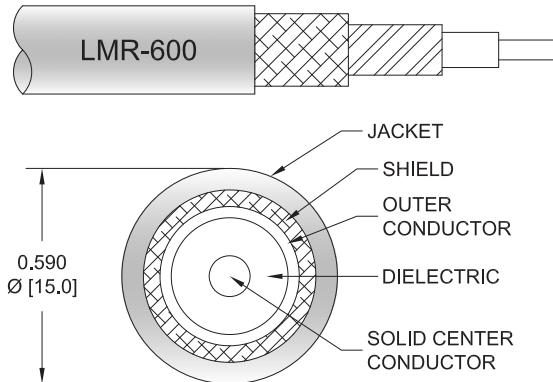
PE3C0232LF

Configuration

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

Features

- Max Frequency 8 GHz
- Shielding Effectivity > 90 dB
- 87% Phase Velocity
- Double Shielded
- PE Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C0232LF TNC 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 TNC to type N cable assembly has a male to male gender configuration with 50 ohm flexible LMR-600 coax. The PE3C0232LF TNC male to type N male cable assembly operates to 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		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

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	250	500	1000	2500	5800	MHz	
PE3C0232LF	Custom Lengths Available	Insertion Loss (Typ.)	0.012	0.017	0.026	0.044	0.073	dB/ft	
			0.04	0.06	0.09	0.15	0.24	dB/m	
PE3C0232LF-24	24 inch	Insertion Loss (Typ.)	0.23	0.24	0.26	0.29	0.35	dB	0.522
PE3C0232LF-36	36 inch	Insertion Loss (Typ.)	0.24	0.26	0.28	0.34	0.42	dB	0.659
PE3C0232LF-48	48 inch	Insertion Loss (Typ.)	0.25	0.27	0.31	0.38	0.5	dB	0.796
PE3C0232LF-120	120 inch	Insertion Loss (Typ.)	0.32	0.37	0.46	0.64	0.93	dB	1.618
PE3C0232LF-180	180 inch	Insertion Loss (Typ.)	0.38	0.46	0.59	0.86	1.3	dB	2.303

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

Loss due to Connector 1:	0.1 dB
Loss due to Connector 2:	0.1 dB
Base Weight:	0.384 pounds
Additional Weight per Inch:	0.01142 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.384 lbs [174.18 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
Shield Layer 2	Tinned Copper Braid
Jacket Material	PE, 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	2.75 lbs-ft [3.73 N-m]
Flat Plate Crush	60 lbs/in [1.07 Kg/mm]
Tensile Strength	350 lbs [158.76 Kg]

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Connectors

Description	Connector 1	Connector 2
Type	TNC Male	N Male
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles	500	
Contact Material and Plating	Beryllium Copper, Gold	Brass, Gold
Contact Plating Specification		50µ in. minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification		100µ in. minimum
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Plating Specification		100µ in. minimum
Hex Size		20.57 mm
Torque		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:

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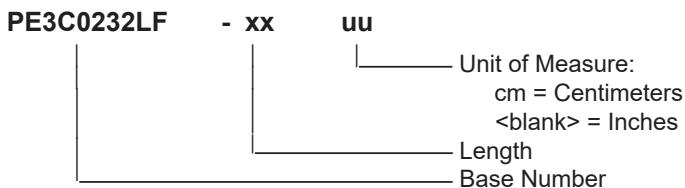


PE3C0232LF

Typical Performance Data

How to Order

Part Number Configuration:



Example: PE3C0232LF-12 = 12 inches long cable
PE3C0232LF-100cm = 100 cm long cable

TNC 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: [TNC Male to N Male Low Loss Cable Using LMR-600 Coax with Times Microwave Components, LF Solder PE3C0232LF](#)

URL: <https://www.pasternack.com/tnc-male-to-n-male-low-loss-cable-using-lmr-600-lf-solder-pe3c0232lf-p.aspx>

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PE3C0232LF CAD Drawing

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