

Plenum N Male to TNC Male Low Loss Cable Using LMR-600-LLPX Coax with Times Microwave Components



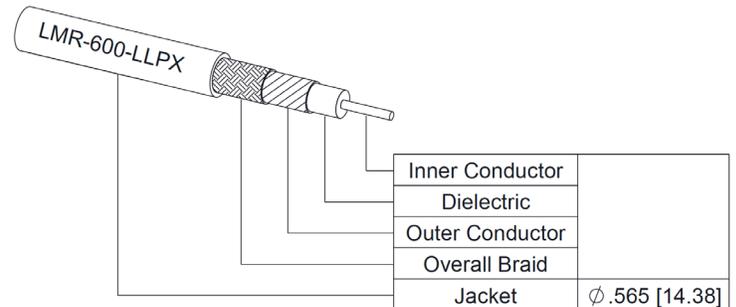
PE3C10290

Configuration

- Connector 1: N Male
- Connector 2: TNC Male
- Cable Type: LMR-600-LLPX

Features

- Max Frequency 6 GHz
- Shielding Effectivity > 90 dB
- 76% Phase Velocity
- Fluoropolymer Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C10290 type N male to TNC male cable using LMR-600-LLPX coax is part of our full line of RF components available for same-day shipping. This Pasternack type N to TNC cable assembly has a male to male gender configuration with 50 ohm LMR-600-LLPX coax. The PE3C10290 type N male to TNC male cable assembly operates to 6 GHz.

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		6	GHz
VSWR			1.4:1	
Velocity of Propagation		76		%
RF Shielding	90			dB
DC Resistance Inner Conductor		0.73 [2.4]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		1.2 [3.94]		Ohms/1000ft [Ohms/Km]
Operating Voltage (DC)			4,000	Vdc
Jacket Spark			8,000	Vrms

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency					MHz	
PE3C10290	Custom Lengths Available	Insertion Loss (Typ.)	0.012	0.018	0.027	0.044	0.072	dB/ft	
			0.04	0.06	0.09	0.15	0.24	dB/m	
PE3C10290-12	12 Inch	Insertion Loss (Typ.)	0.22	0.22	0.23	0.25	0.28	dB	0.282
PE3C10290-24	24 Inch	Insertion Loss (Typ.)	0.23	0.24	0.26	0.29	0.35	dB	0.318
PE3C10290-36	36 Inch	Insertion Loss (Typ.)	0.24	0.26	0.29	0.34	0.42	dB	0.353
PE3C10290-48	48 Inch	Insertion Loss (Typ.)	0.25	0.28	0.31	0.38	0.49	dB	0.388
PE3C10290-60	60 Inch	Insertion Loss (Typ.)	0.26	0.29	0.34	0.42	0.56	dB	0.423

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:	0.282 pounds
Additional Weight per Inch:	1.5192 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.282 lbs [127.91 g]

Cable

Cable Type	LMR-600-LLPX
Impedance	50 Ohms
Inner Conductor Type	Stranded
Inner Conductor Material and Plating	Copper Clad Aluminum
Dielectric Type	PTFE
Outer Conductor 1 Material and Plating	Aluminum Tape
Outer Conductor Diameter	0.461 in [11.71 mm]
Jacket Material	Fluoropolymer
Jacket Diameter	0.565 in [14.35 mm]

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Connectors

Description	Connector 1	Connector 2
Type	N Male	TNC Male
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles		500
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold
Contact Plating Specification	50 µin minimum	
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification	100 µin minimum	
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Plating Specification	100 µin minimum	
Hex Size	20.57 mm	
Torque	44 in-lbs 4.97 Nm	

Environmental Specifications

Operating Range Temperature -40 to +125 deg C

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

Plotted and Other Data

Notes:

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PE3C10290

Typical Performance Data

How to Order

Part Number Configuration:

PE3C10290

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Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3C10290-12 = 12 inches long cable
PE3C10290-100cm = 100 cm long cable

Plenum N Male to TNC Male Low Loss Cable Using LMR-600-LLPX 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Plenum N Male to TNC Male Low Loss Cable Using LMR-600-LLPX Coax with Times Microwave Components PE3C10290](#)

URL: <https://www.pasternack.com/plenum-n-male-to-tnc-male-low-loss-cable-using-lmr-600-llpx-pe3c10290-p.aspx>

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PE3C10290 CAD Drawing

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