

Plenum BNC Male to TNC Male Low Loss Cable Using LMR-240-LLPX Coax with Times Microwave Components



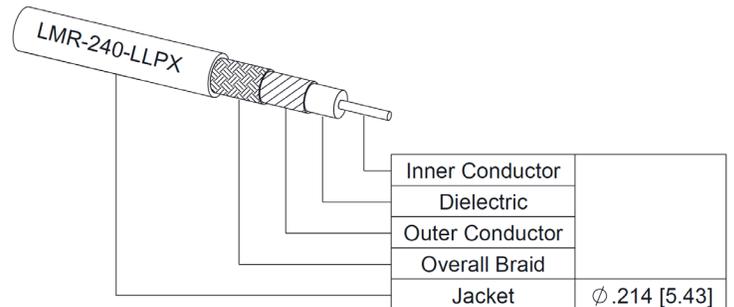
PE3C10281

Configuration

- Connector 1: BNC Male
- Connector 2: TNC Male
- Cable Type: LMR-240-LLPX

Features

- Max Frequency 4 GHz
- Shielding Effectivity > 90 dB
- 76% Phase Velocity
- Fluoropolymer Jacket
- 500 Mating Cycles



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C10281 BNC male to TNC male cable using LMR-240-LLPX coax is part of our full line of RF components available for same-day shipping. This Pasternack BNC to TNC cable assembly has a male to male gender configuration with 50 ohm LMR-240-LLPX coax. The PE3C10281 BNC male to TNC male cable assembly operates to 4 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		4	GHz
VSWR			1.4:1	
Velocity of Propagation		76		%
RF Shielding	90			dB
Capacitance		26.7 [87.6]		pF/ft [pF/m]
Inductance		0.067 [0.22]		uH/ft [uH/m]
DC Resistance Inner Conductor		4 [13.12]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		3.9 [12.8]		Ohms/1000ft [Ohms/Km]
Jacket Spark			5,000	Vrms

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency		100	250	500	1000	
PE3C10281	Custom Lengths Available	Insertion Loss (Typ.)	0.023	0.038	0.056	0.079	0.163	dB/ft	
			0.08	0.13	0.19	0.26	0.54	dB/m	
PE3C10281-12	12 Inch	Insertion Loss (Typ.)	0.16	0.19	0.23	0.28	0.47	dB	0.185
PE3C10281-24	24 Inch	Insertion Loss (Typ.)	0.18	0.23	0.29	0.36	0.63	dB	0.221
PE3C10281-36	36 Inch	Insertion Loss (Typ.)	0.21	0.27	0.34	0.44	0.79	dB	0.256
PE3C10281-48	48 Inch	Insertion Loss (Typ.)	0.23	0.31	0.4	0.52	0.96	dB	0.291
PE3C10281-60	60 Inch	Insertion Loss (Typ.)	0.25	0.34	0.46	0.6	1.12	dB	0.326

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*SQRT(FGHz) dB
 Loss due to Connector 2: 0.1 dB
 Base Weight: 0.185 pounds
 Additional Weight per Inch: 0.4983 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter 0.5 in [12.7 mm]
 Weight 0.185 lbs [83.91 g]

Cable

Cable Type LMR-240-LLPX
 Impedance 50 Ohms
 Inner Conductor Material and Plating Copper
 Dielectric Type PTFE
 Outer Conductor 1 Material and Plating Aluminum Tape
 Jacket Material Fluoropolymer
 Jacket Diameter 0.214 in [5.44 mm]
 One Time Minimum Bend Radius 0.75 in [19.05 mm]
 Repeated Minimum Bend Radius 2.5 in [63.5 mm]
 Flat Plate Crush 85 lbs/in [1.52 Kg/mm]
 Tensile Strength 60 lbs [27.22 Kg]

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Connectors

Description	Connector 1	Connector 2
Type	BNC Male	TNC Male
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles	500	500
Contact Material and Plating	Beryllium Copper, Gold	Phosphor Bronze, Gold
Contact Plating Specification	50 µin minimum	50 µin minimum
Dielectric Type	PTFE	Teflon
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification	80 µin minimum	80 µin minimum
Coupling Nut Material and Plating		Brass, Tri-Metal
Coupling Nut Plating Specification		80 µin minimum
Torque		20 in-lbs 2.26 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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PE3C10281

Typical Performance Data

How to Order

Part Number Configuration:

PE3C10281

- **xx**

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Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3C10281-12 = 12 inches long cable
PE3C10281-100cm = 100 cm long cable

Plenum BNC Male to TNC Male Low Loss Cable Using LMR-240-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 BNC Male to TNC Male Low Loss Cable Using LMR-240-LLPX Coax with Times Microwave Components PE3C10281](https://www.pasternack.com/plenum-bnc-male-to-tnc-male-low-loss-cable-using-lmr-240-llpx-pe3c10281-p.aspx)

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PE3C10281 CAD Drawing

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