

Plenum BNC Male to SMA Male Low Loss Cable Using LMR-400-LLPX Coax with Times Microwave Components



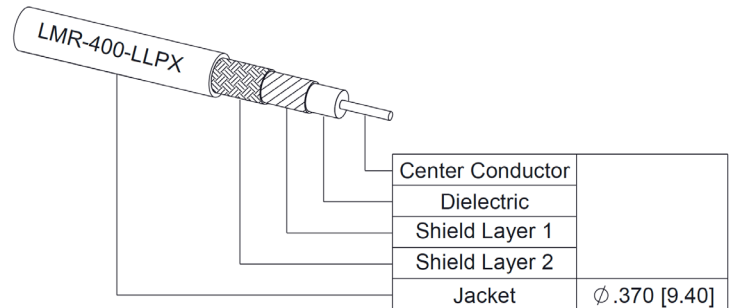
PE3C10272

Configuration

- Connector 1: BNC Male
- Connector 2: SMA Male
- Cable Type: LMR-400-LLPX
- Coax Flex Type: Flexible

Features

- Max Frequency 4 GHz
- Shielding Effectivity > 90 dB
- 76% Phase Velocity
- Double Shielded
- Fluoropolymer Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C10272 BNC male to SMA male cable using LMR-400-LLPX 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 BNC to SMA cable assembly has a male to male gender configuration with 50 ohm flexible LMR-400-LLPX coax. The PE3C10272 BNC male to SMA male cable assembly operates to 4 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		4	GHz
VSWR			1.4:1	
Velocity of Propagation		76		%
RF Shielding	90			dB
Capacitance		26.7 [87.6]		pF/ft [pF/m]

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency		100	250	500	1000	
PE3C10272	Custom Lengths Available	Insertion Loss (Typ.)	0.012	0.02	0.029	0.042	0.085	dB/ft	
			0.04	0.07	0.1	0.14	0.28	dB/m	
PE3C10272-12	12 Inch	Insertion Loss (Typ.)	0.22	0.22	0.23	0.25	0.29	dB	0.237
PE3C10272-24	24 Inch	Insertion Loss (Typ.)	0.23	0.24	0.26	0.29	0.37	dB	0.342
PE3C10272-36	36 Inch	Insertion Loss (Typ.)	0.24	0.26	0.29	0.33	0.46	dB	0.446
PE3C10272-48	48 Inch	Insertion Loss (Typ.)	0.25	0.28	0.32	0.37	0.54	dB	0.55
PE3C10272-60	60 Inch	Insertion Loss (Typ.)	0.26	0.3	0.35	0.41	0.63	dB	0.654

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:	0.237 pounds
Additional Weight per Inch:	0.7908 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.237 lbs [107.5 g]

Cable

Cable Type	LMR-400-LLPX
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper Clad Aluminum
Dielectric Type	PTFE (LD)
Number of Shields	2
Shield Layer 1	Aluminum Tape
Shield Layer 2	Tinned Copper Braid
Jacket Material	Fluoropolymer, Red
Jacket Diameter	0.37 in [9.4 mm]
Repeated Minimum Bend Radius	4 in [101.6 mm]

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Connectors

Description	Connector 1	Connector 2
Type	BNC Male	SMA Male
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles		500
Contact Material and Plating	Copper, Gold	Brass, Gold
Contact Plating Specification		50µ" Minimum
Dielectric Type	PTFE	Teflon
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Torque		7 in-lbs 0.79 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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PE3C10272

Typical Performance Data

How to Order

Part Number Configuration:

PE3C10272

- **xx**

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Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3C10272-12 = 12 inches long cable
PE3C10272-100cm = 100 cm long cable

Plenum BNC Male to SMA Male Low Loss Cable Using LMR-400-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.

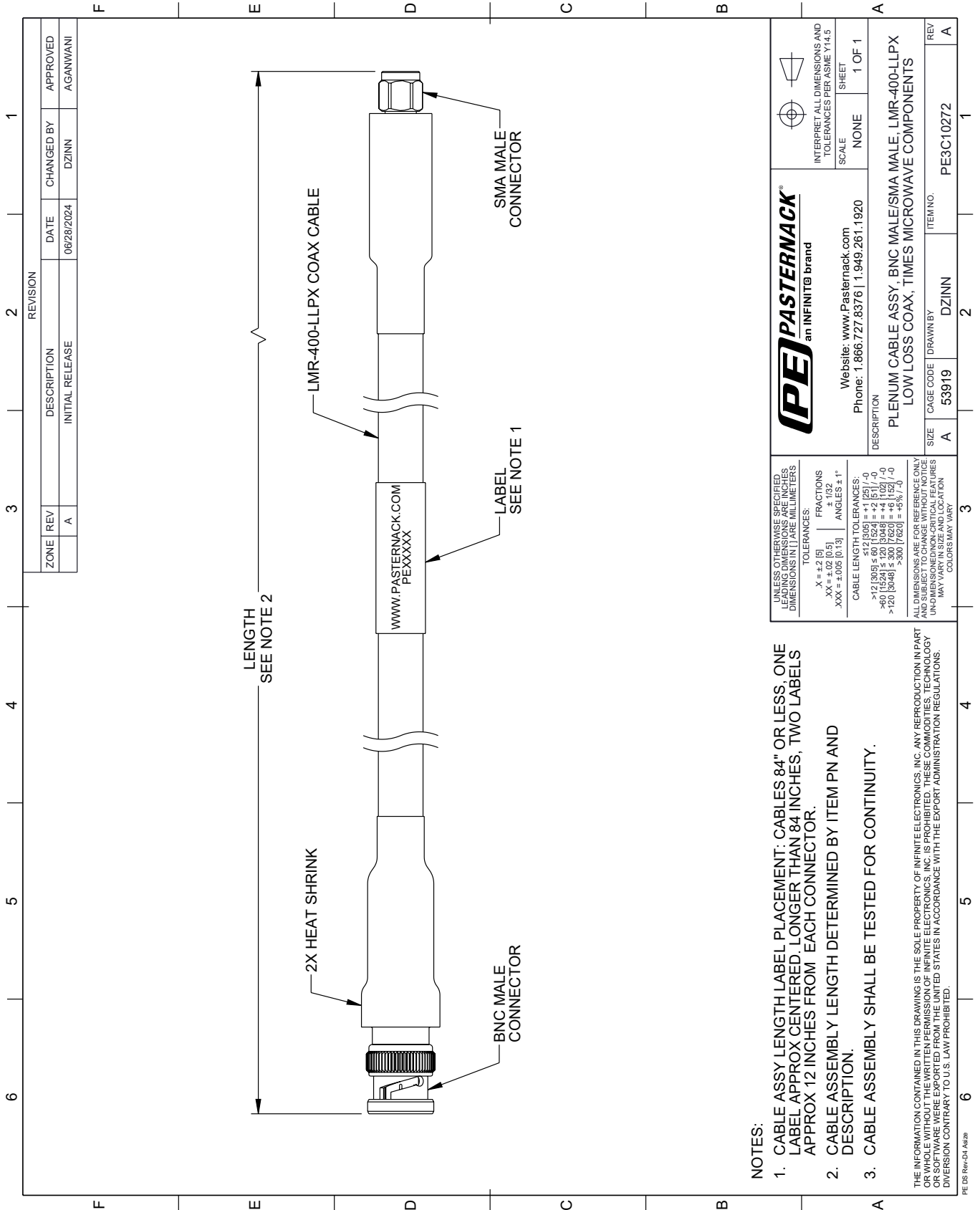
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Plenum BNC Male to SMA Male Low Loss Cable Using LMR-400-LLPX Coax with Times Microwave Components PE3C10272](#)

URL: <https://www.pasternack.com/plenum-bnc-male-to-sma-male-low-loss-cable-using-lmr-400-llpx-pe3c10272-p.aspx>

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PE3C10272 CAD Drawing

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REVISION		DATE	CHANGED BY	APPROVED	
ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE	06/28/2024	DZINN	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
SCALE NONE
SHEET 1 OF 1

UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES AND TRAILING DIMENSIONS ARE IN MILLIMETERS

TOLERANCES:
 .X = ±.2 (5)
 .XX = ±.02 (0.5)
 .XXX = ±.005 (0.13)
 FRACTIONS ± 1/32
 ANGLES ± 1°

CABLE LENGTH TOLERANCES:
 >12 (305) ≤ 60 (1524) = ±.1 (2.5) / -0
 >60 (1524) ≤ 120 (3048) = ±.4 (10.2) / -0
 >120 (3048) ≤ 300 (7620) = ±.6 (15.2) / -0
 >300 (7620) = ±.8 (20.3) / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY. DIMENSIONS OF CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

DESCRIPTION
 PLENUM CABLE ASSY, BNC MALE/SMA MALE, LMR-400-LLPX LOW LOSS COAX, TIMES MICROWAVE COMPONENTS

SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	53919	DZINN	PE3C10272

- NOTES:
- CABLE ASSY LENGTH LABEL PLACEMENT: CABLES 84" OR LESS, ONE LABEL APPROX CENTERED, LONGER THAN 84 INCHES, TWO LABELS APPROX 12 INCHES FROM EACH CONNECTOR.
 - CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.
 - CABLE ASSEMBLY SHALL BE TESTED FOR CONTINUITY.

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