

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



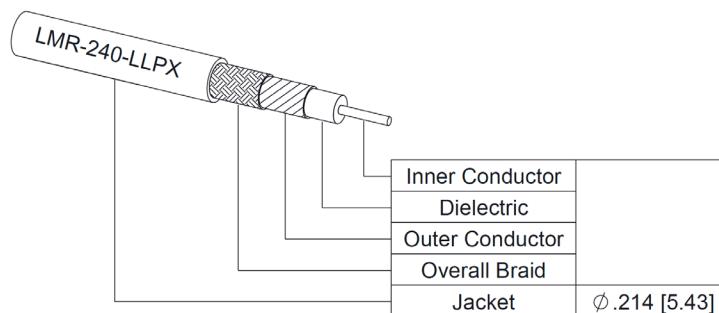
PE3C10280

Configuration

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

Features

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



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C10280 BNC male to SMA 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 SMA cable assembly has a male to male gender configuration with 50 ohm LMR-240-LLPX coax. The PE3C10280 BNC male to SMA 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	4000	MHz	
PE3C10280	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	
PE3C10280-12	12 Inch	Insertion Loss (Typ.)	0.16	0.19	0.23	0.28	0.47	dB	0.155
PE3C10280-24	24 Inch	Insertion Loss (Typ.)	0.18	0.23	0.29	0.36	0.63	dB	0.191
PE3C10280-36	36 Inch	Insertion Loss (Typ.)	0.21	0.27	0.34	0.44	0.79	dB	0.226
PE3C10280-48	48 Inch	Insertion Loss (Typ.)	0.23	0.31	0.4	0.52	0.96	dB	0.261
PE3C10280-60	60 Inch	Insertion Loss (Typ.)	0.25	0.34	0.46	0.6	1.12	dB	0.296

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: $0.1 * \text{SQRT}(F \text{ GHz})$ dB

Loss due to Connector 2: 0.1 dB

Base Weight: 0.155 pounds

Additional Weight per Inch: 0.4983 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter 0.5 in [12.7 mm]
Weight 0.155 lbs [70.31 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	SMA Male
Specification		MIL-STD-348
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles	500	
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Specification	50 μ in minimum	ASTM B488
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating		Brass, Tri-Metal
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification	80 μ in minimum	
Coupling Nut Material and Plating		Brass, Tri-Metal
Hex Size		5/16 Inch

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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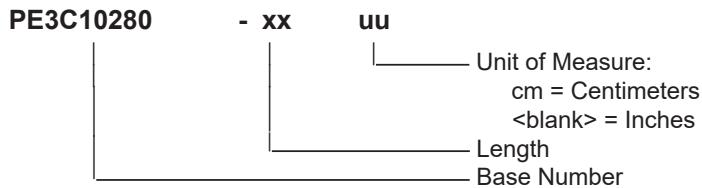


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Typical Performance Data

How to Order

Part Number Configuration:



Example: PE3C10280-12 = 12 inches long cable
PE3C10280-100cm = 100 cm long cable

Plenum BNC Male to SMA 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 SMA Male Low Loss Cable Using LMR-240-LLPX Coax with Times Microwave Components PE3C10280](#)

URL: <https://www.pasternack.com/plenum-bnc-male-to-sma-male-low-loss-cable-using-lmr-240-llpx-pe3c10280-p.aspx>

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PE3C10280 CAD Drawing

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