

75 Ohm BNC Male to 75 Ohm BNC Male Low Loss Cable Using 75 Ohm LMR-400-75 Coax With Times Microwave Components

PE3C10261

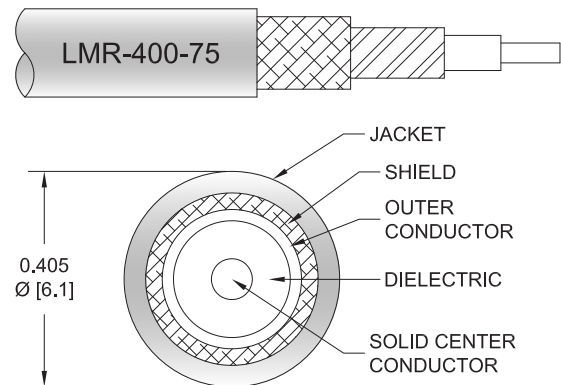


Configuration

- Connector 1: BNC Male
- Connector 2: BNC Male
- Cable Type: LMR-400-75
- Coax Flex Type: Flexible

Features

- Max Frequency 2 GHz
- Shielding Effectivity > 90 dB
- 85% Phase Velocity
- PE Jacket
- 500 Mating Cycles



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C10261 75 ohm BNC male to 75 ohm BNC male cable using 75 ohm LMR-400-75 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 BNC cable assembly has a male to male gender configuration with 75 ohm flexible LMR-400-75 coax. The PE3C10261 BNC male to BNC male cable assembly operates to 2 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		2	GHz
VSWR			1.4:1	
Velocity of Propagation		85		%
RF Shielding	90			dB
Capacitance		15.9 [52.17]		pF/ft [pF/m]
Inductance		0.09 [0.3]		uH/ft [uH/m]
DC Resistance Inner Conductor		2.5 [8.2]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		1.65 [5.41]		Ohms/1000ft [Ohms/Km]

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	50	100	250	500	2000	MHz	
PE3C10261	Custom Lengths Available	Insertion Loss (Typ.)	0.008	0.013	0.019	0.027	0.057	dB/ft	
			0.03	0.05	0.07	0.09	0.19	dB/m	
PE3C10261-12	12 Inch	Insertion Loss (Typ.)	0.06	0.08	0.12	0.17	0.34	dB	0.156
PE3C10261-24	24 Inch	Insertion Loss (Typ.)	0.07	0.09	0.14	0.2	0.4	dB	0.227
PE3C10261-36	36 Inch	Insertion Loss (Typ.)	0.07	0.11	0.16	0.23	0.46	dB	0.297
PE3C10261-48	48 Inch	Insertion Loss (Typ.)	0.08	0.12	0.18	0.25	0.52	dB	0.367
PE3C10261-60	60 Inch	Insertion Loss (Typ.)	0.09	0.13	0.2	0.28	0.57	dB	0.437

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: $0.1 \cdot \sqrt{\text{FGHz}}$ dB

Loss due to Connector 2: $0.1 \cdot \sqrt{\text{FGHz}}$ dB

Base Weight: 0.156 pounds

Additional Weight per Inch: 0.00584 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.156 lbs [70.76 g]

Cable

Cable Type	LMR-400-75
Impedance	75 Ohms
Inner Conductor Type	Stranded
Inner Conductor Material and Plating	Beryllium Copper
Dielectric Type	PE (F)
Outer Conductor 1 Material and Plating	Aluminum Tape
Outer Conductor Diameter	0.291 in [7.39 mm]
Jacket Material	PE, Black
Jacket Diameter	0.405 in [10.29 mm]
One Time Minimum Bend Radius	1 in [25.4 mm]
Repeated Minimum Bend Radius	4 in [101.6 mm]
Bending Moment	0.5 lbs-ft [0.68 N-m]
Flat Plate Crush	40 lbs/in [0.71 Kg/mm]
Tensile Strength	160 lbs [72.57 Kg]

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Connectors

Description	Connector 1	Connector 2
Type	BNC Male	BNC Male
Impedance	75 Ohms	75 Ohms
Configuration	Straight	Straight
Mating Cycles	500	500
Contact Material and Plating	Brass, Gold over Nickel over Copper	Brass, Gold over Nickel over Copper
Contact Plating Specification	50 µin minimum	50 µin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification	80 µin minimum	80 µin minimum

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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Typical Performance Data

How to Order

Part Number Configuration:

PE3C10261

- xx

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Unit of Measure:
cm = Centimeters
<blank> = Inches

Length

Base Number

Example: PE3C10261-12 = 12 inches long cable
PE3C10261-100cm = 100 cm long cable

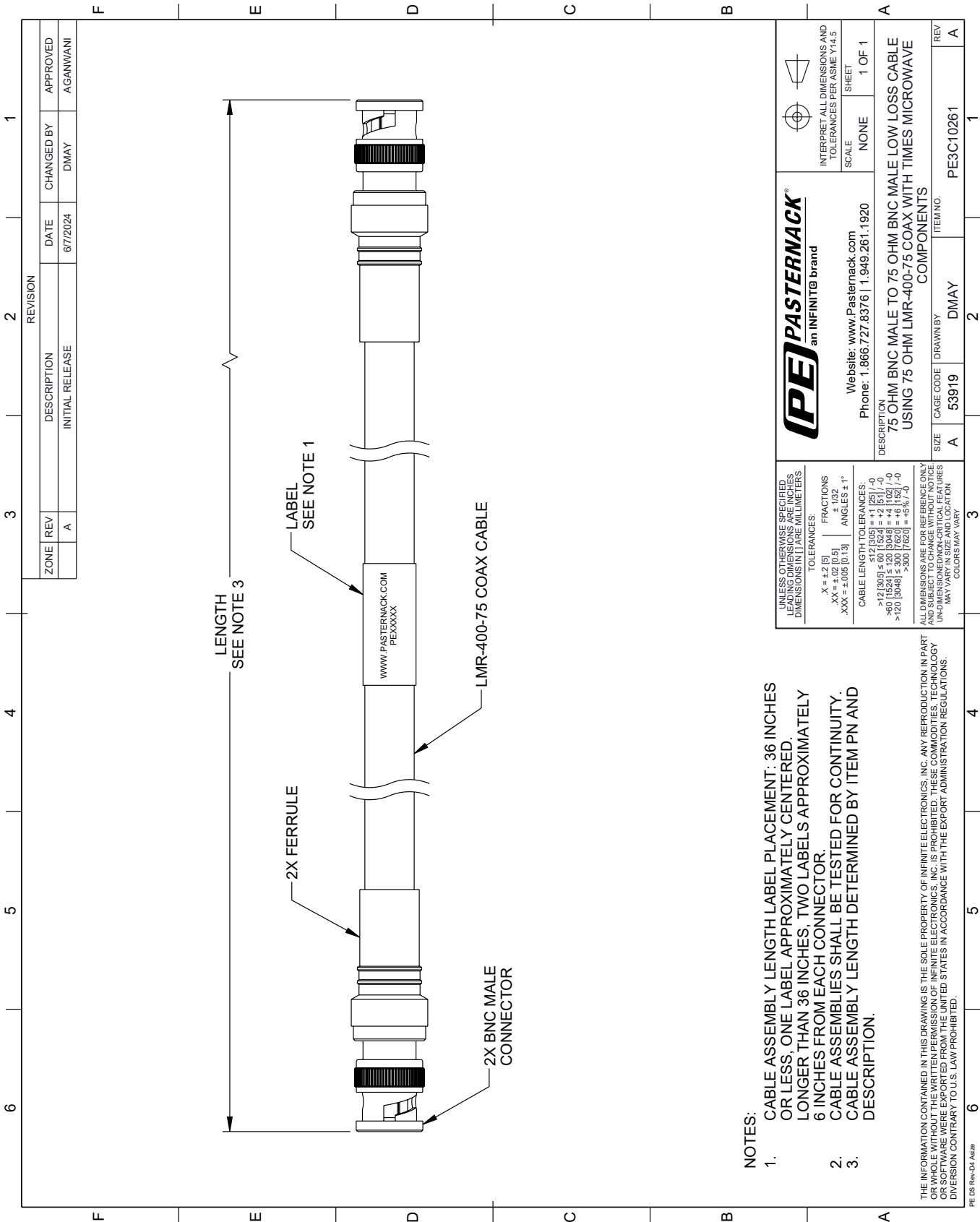
75 Ohm BNC Male to 75 Ohm BNC Male Low Loss Cable Using 75 Ohm LMR-400-75 Coax With Times Microwave Components from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest 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: [75 Ohm BNC Male to 75 Ohm BNC Male Low Loss Cable Using 75 Ohm LMR-400-75 Coax With Times Microwave Components PE3C10261](#)

URL: <https://www.pasternack.com/75-ohm-bnc-male-to-75-ohm-bnc-male-low-loss-cable-using-lmr-400-75-pe3c10261-p.aspx>

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PE3C10261 CAD Drawing
75 Ohm BNC Male to 75 Ohm BNC Male Low Loss Cable Using 75 Ohm
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- NOTES:
- 1. CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED, LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.
 - 2. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
 - 3. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.

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UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE IN MILLIMETERS.		PE PASTERNAK an INFINITE brand		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5	
TOLERANCES:		Website: www.Pasternack.com		SCALE: NONE	
X = ±.2 [5]		Phone: 1.866.727.8376 1.949.261.1920		SHEET 1 OF 1	
.XX = ±.02 [0.5]		DESCRIPTION		75 OHM BNC MALE TO 75 OHM BNC MALE LOW LOSS CABLE	
.XXX = ±.005 [0.13]		CABLE LENGTH TOLERANCES:		USING 75 OHM LMR-400-75 COAX WITH TIMES MICROWAVE	
ANGLES ± 1°		>12 [305] ≤ 60 [1524] = ±.125 [-0]		COMPONENTS	
CABLE LENGTH TOLERANCES:		>60 [1524] ≤ 120 [3048] = ±.125 [-0]		SIZE A	
>120 [3048] ≤ 300 [7620] = ±.5% [-0]		ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNDIMENSIONED NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.		CAGE CODE 53919	
DRAWN BY DMAY		ITEM NO. PE3C10261		REV A	