

75 Ohm N Male to 75 Ohm N Male Low Loss Cable Using 75 Ohm LMR-400-75-DB Coax with Times Microwave Components



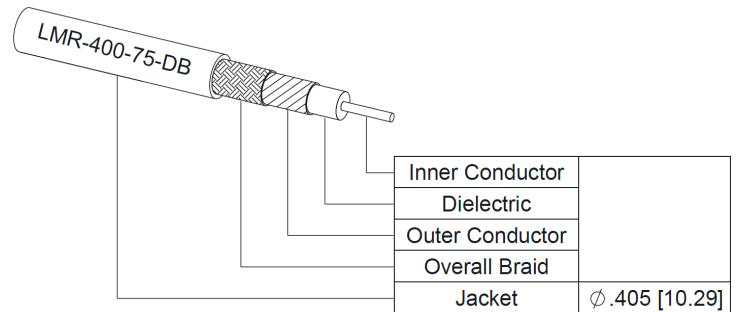
PE3C10270

Configuration

- Connector 1: N Male
- Connector 2: N Male
- Cable Type: LMR-400-75-DB
- Coax Cable Group: 95

Features

- Max Frequency 2.5 GHz
- 85% Phase Velocity
- PE Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C10270 75 ohm type N male to 75 ohm type N male cable using 75 ohm LMR-400-75-DB coax is part of our full line of RF components available for same-day shipping. This Pasternack type N to type N cable assembly has a male to male gender configuration with 75 ohm LMR-400-75-DB coax. The PE3C10270 type N male to type N male cable assembly operates to 2.5 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		2.5	GHz
VSWR			1.4:1	
Velocity of Propagation		85		%

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency					MHz	
PE3C10270	Custom Lengths Available	Insertion Loss (Typ.)	0.011	0.019	0.027	0.039	0.064	dB/ft	
			0.04	0.07	0.09	0.13	0.21	dB/m	
PE3C10270-12	12 Inch	Insertion Loss (Typ.)	0.22	0.22	0.23	0.24	0.27	dB	0.125
PE3C10270-24	24 Inch	Insertion Loss (Typ.)	0.23	0.24	0.26	0.28	0.33	dB	0.161
PE3C10270-36	36 Inch	Insertion Loss (Typ.)	0.24	0.26	0.29	0.32	0.4	dB	0.196
PE3C10270-48	48 Inch	Insertion Loss (Typ.)	0.25	0.28	0.31	0.36	0.46	dB	0.231
PE3C10270-60	60 Inch	Insertion Loss (Typ.)	0.26	0.3	0.34	0.4	0.52	dB	0.266

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: 0.125 pounds
 Additional Weight per Inch: 0.00292 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter 0.5 in [12.7 mm]
 Weight 0.125 lbs [56.7 g]

Cable

Cable Type LMR-400-75-DB
 Impedance 75 Ohms
 Inner Conductor Type Stranded
 Inner Conductor Material and Plating Copper
 Dielectric Type Foam PE
 Outer Conductor 1 Material and Plating Aluminum Tape
 Outer Conductor Diameter 0.291 in [7.39 mm]
 Jacket Material PE
 Jacket Diameter 0.405 in [10.29 mm]

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Connectors

Description	Connector 1	Connector 2
Type	N Male	N Male
Impedance	75 Ohms	75 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	50 µin minimum	50 µin minimum
Dielectric Type	Teflon	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	Brass, Tri-Metal
Coupling Nut 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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PE3C10270

Typical Performance Data

How to Order

Part Number Configuration:

PE3C10270

- xx

uu

Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3C10270-12 = 12 inches long cable
PE3C10270-100cm = 100 cm long cable

75 Ohm N Male to 75 Ohm N Male Low Loss Cable Using 75 Ohm LMR-400-75-DB 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.

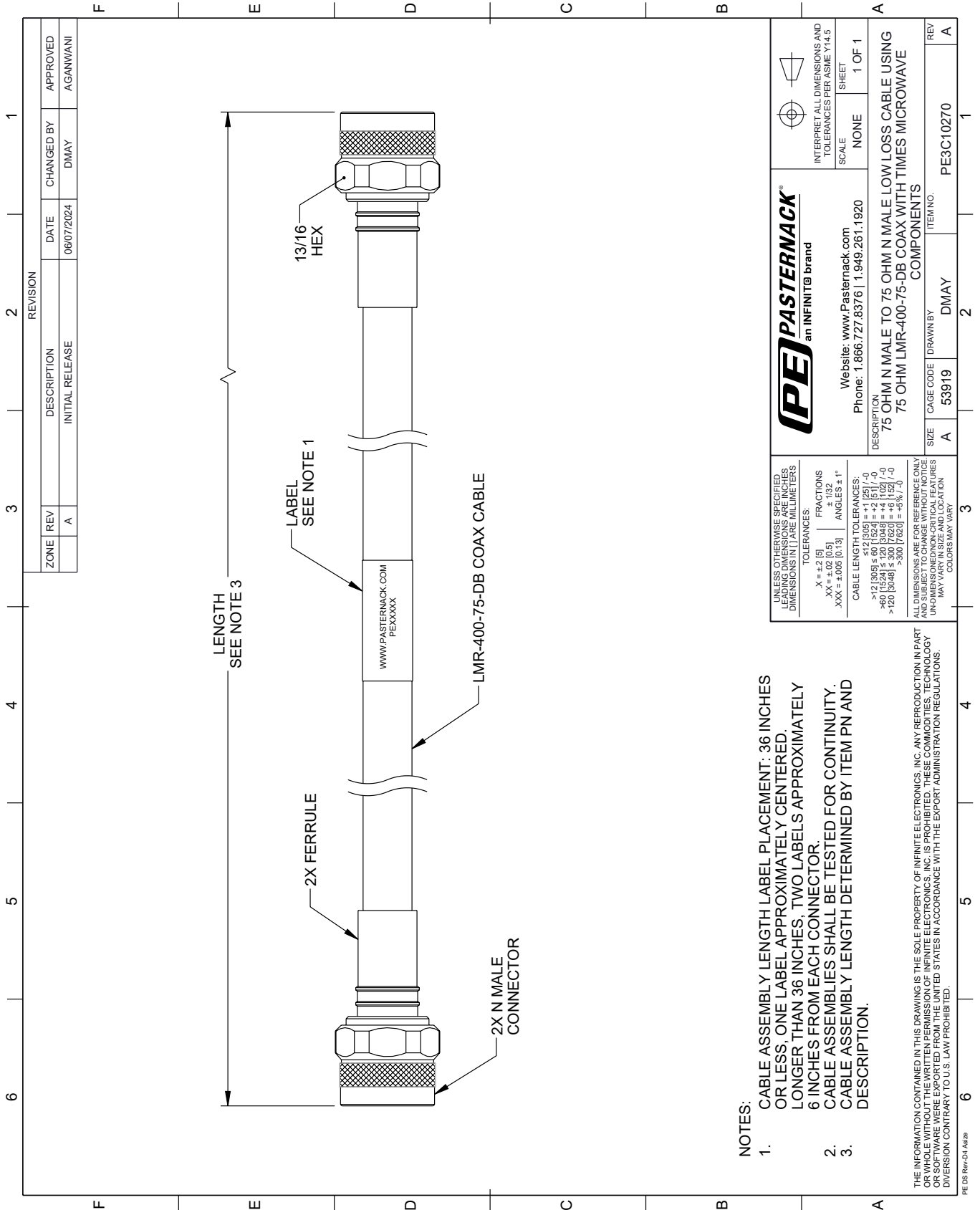
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [75 Ohm N Male to 75 Ohm N Male Low Loss Cable Using 75 Ohm LMR-400-75-DB Coax with Times Microwave Components PE3C10270](#)

URL: <https://www.pasternack.com/75-ohm-n-male-to-75-ohm-n-male-low-loss-cable-using-lmr-400-75-db-pe3c10270-p.aspx>

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PE3C10270 CAD Drawing

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NOTES:

- 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.
- CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
- CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.

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PE DS Rev-04 Add2