



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

RF Cable Assemblies Technical Data Sheet

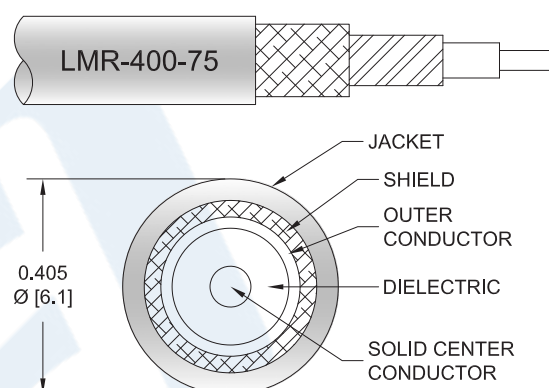
PE3C6842

Configuration

- Connector 1: N Male
- Connector 2: N Male
- Cable Type: LMR-400-75

Features

- Max Frequency 2.5 GHz
- Shielding Effectivity > 90 dB
- 85% Phase Velocity
- Double Shielded
- PE Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C6842 75 ohm type N male to 75 ohm type N 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 type N to type N cable assembly has a male to male gender configuration with 75 ohm flexible LMR-400-75 coax. The PE3C6842 type N male to type N male cable assembly operates to 2.5 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.

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 Coax With Times Microwave Components PE3C6842](#)



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

RF Cable Assemblies Technical Data Sheet

PE3C6842

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		2.5	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]		Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor		1.65 [5.41]		Ω/1000ft [Ω/Km]
Operating Voltage (AC)			1,000	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	2.5	GHz
Insertion Loss (Typ.)	0.012	0.019	0.027	0.039	0.064	dB/ft
	0.04	0.06	0.09	0.13	0.21	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

Mechanical Specifications

Cable Assembly

Weight 0.16 lbs [72.57 g]

Cable

Cable Type LMR-400-75
 Impedance 75 Ohms
 Inner Conductor Type Solid
 Inner Conductor Material and Plating Beryllium Copper
 Dielectric Type PE (F)
 Number of Shields 2
 Shield Layer 1 Aluminum Tape
 Shield Layer 2 Tinned Copper
 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]

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 Coax With Times Microwave Components PE3C6842](#)



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

RF Cable Assemblies Technical Data Sheet

PE3C6842

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]

Connectors

Description	Connector 1	Connector 2
Type	N Male	N Male
Impedance	75 Ohms	75 Ohms
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	50 μ inch minimum	50 μ inch minimum
Dielectric Type	Teflon	Teflon
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification	80 μ inch minimum	80 μ inch minimum
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Plating Specification	80 μ inch minimum	80 μ inch minimum

Environmental Specifications

Temperature

Operating Range -40 to +85 deg C

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

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 Coax With Times Microwave Components PE3C6842](#)



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

RF Cable Assemblies Technical Data Sheet

PE3C6842

How to Order

Part Number Configuration:

PE3C6842

- **xx**

uu

Unit of Measure:
cm = Centimeters
<blank> = Inches
Length
Base Number

Example: PE3C6842-12 = 12 inches long cable
PE3C6842-100cm = 100 cm long cable

75 Ohm N Male to 75 Ohm N 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.

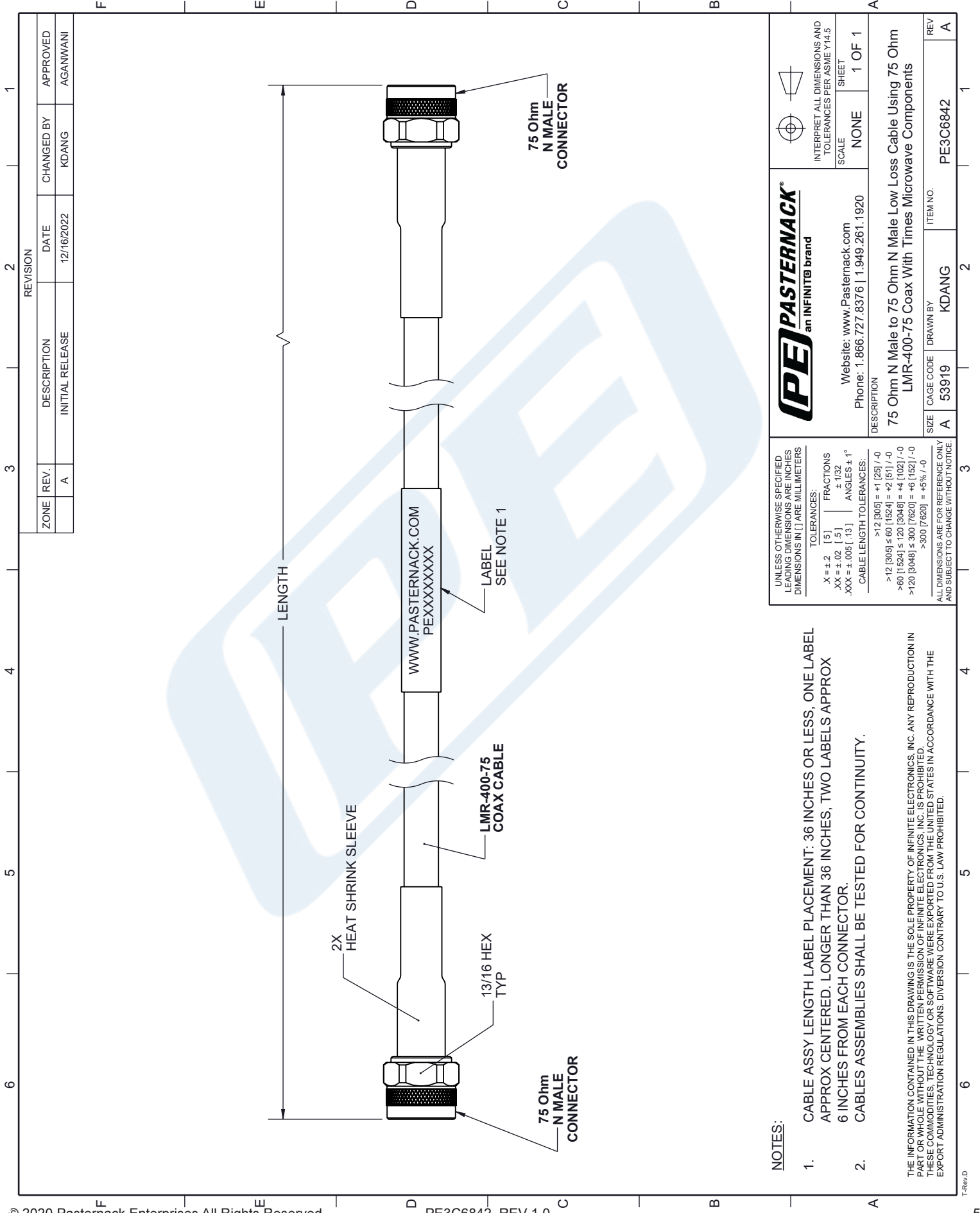
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [75 Ohm N Male to 75 Ohm N Male Low Loss Cable Using 75 Ohm LMR-400-75 Coax With Times Microwave Components PE3C6842](https://www.pasternack.com/75-ohm-n-male-to-75-ohm-n-male-low-loss-cable-using-lmr-400-75-pe3c6842-p.aspx)

URL: <https://www.pasternack.com/75-ohm-n-male-to-75-ohm-n-male-low-loss-cable-using-lmr-400-75-pe3c6842-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

PE3C6842 CAD Drawing

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



NOTES:

1. CABLE ASSY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROX CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROX 6 INCHES FROM EACH CONNECTOR.
2. CABLES ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INFINITE ELECTRONICS, INC. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF INFINITE ELECTRONICS, INC. IS PROHIBITED. THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.

PE PASTERNAK an INFINITE brand			
Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920		SCALE NONE	SHEET 1 OF 1
DESCRIPTION 75 Ohm N Male to 75 Ohm N Male Low Loss Cable Using 75 Ohm LMR-400-75 Coax With Times Microwave Components			
SIZE A	CAGE CODE 53919	DRAWN BY KDANG	ITEM NO. PE3C6842
REV A		REV A	

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS	
TOLERANCES: X = ±.2 [5] XX = ±.02 [.5] XXX = ±.005 [.13]	FRACTIONS ± 1/32 ANGLES ± 1°
CABLE LENGTH TOLERANCES: >12 [305] = +1 [25] / -0 >12 [305] ≤ 60 [1524] = +2 [51] / -0 >60 [1524] ≤ 120 [3048] = +4 [102] / -0 >120 [3048] ≤ 300 [7620] = +6 [152] / -0 >300 [7620] = +5% / -0	
ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE	