



UHF Male to UHF Male Low Loss Cable Using LMR-400 Coax With Times Microwave Components

RF Cable Assemblies Technical Data Sheet

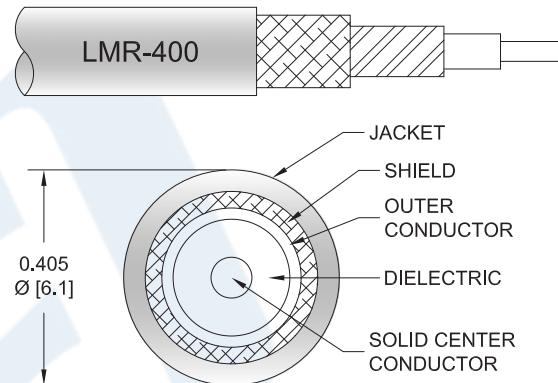
PE3C6424

Configuration

- Connector 1: UHF Male
- Connector 2: UHF Male
- Cable Type: LMR-400

Features

- Max Frequency 3 GHz
- Shielding Effectivity > 90 dB
- 85% Phase Velocity
- Double Shielded
- PE Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C6424 UHF male to UHF male cable using LMR-400 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 UHF to UHF cable assembly has a male to male gender configuration with 50 ohm flexible LMR-400 coax. The PE3C6424 UHF male to UHF male cable assembly operates to 3 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: [UHF Male to UHF Male Low Loss Cable Using LMR-400 Coax With Times Microwave Components PE3C6424](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
Velocity of Propagation		85		%
RF Shielding	90			dB
Group Delay		1.2 [3.94]		ns/ft [ns/m]
Capacitance		23.9 [78.41]		pF/ft [pF/m]
Inductance		0.06 [0.2]		uH/ft [uH/m]
DC Resistance Inner Conductor		1.39 [4.56]		Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor		1.65 [5.41]		Ω/1000ft [Ω/Km]
Jacket Spark			8,000	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Typ.)	0.012	0.02	0.029	0.041	0.074	dB/ft
	0.04	0.07	0.1	0.13	0.24	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as $0.1 * \text{SQRT}(F\text{GHz})$ dB per connector.

Mechanical Specifications

Cable Assembly

Weight 0.256 lbs [116.12 g]

Cable

Cable Type LMR-400
Impedance 50 Ohms
Inner Conductor Type Solid
Inner Conductor Material and Plating Copper Clad Aluminum
Dielectric Type PE (F)
Number of Shields 2
Shield Layer 1 Aluminum Tape
Shield Layer 2 Tinned Copper Braid
Jacket Material PE, Black
Jacket Diameter 0.405 in [10.29 mm]

One Time Minimum Bend Radius 1 in [25.4 mm]

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Repeated Minimum Bend Radius
Bending Moment
Flat Plate Crush
Tensile Strength

4 in [101.6 mm]
0.5 lbs-ft [0.68 N-m]
40 lbs/in [0.71 Kg/mm]
160 lbs [72.57 Kg]

Connectors

Description	Connector 1	Connector 2
Type	UHF Male	UHF Male
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Dielectric Type	Teflon	Teflon
Body Material and Plating	Brass, Nickel	Brass, Nickel
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel

Environmental Specifications

Temperature

Operating Range

-40 to +85 deg C

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

Plotted and Other Data

Notes:

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PE3C6424

How to Order

Part Number Configuration:

PE3C6424

- **xx**

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

Example: PE3C6424-12 = 12 inches long cable
PE3C6424-100cm = 100 cm long cable

UHF Male to UHF Male Low Loss Cable Using LMR-400 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.

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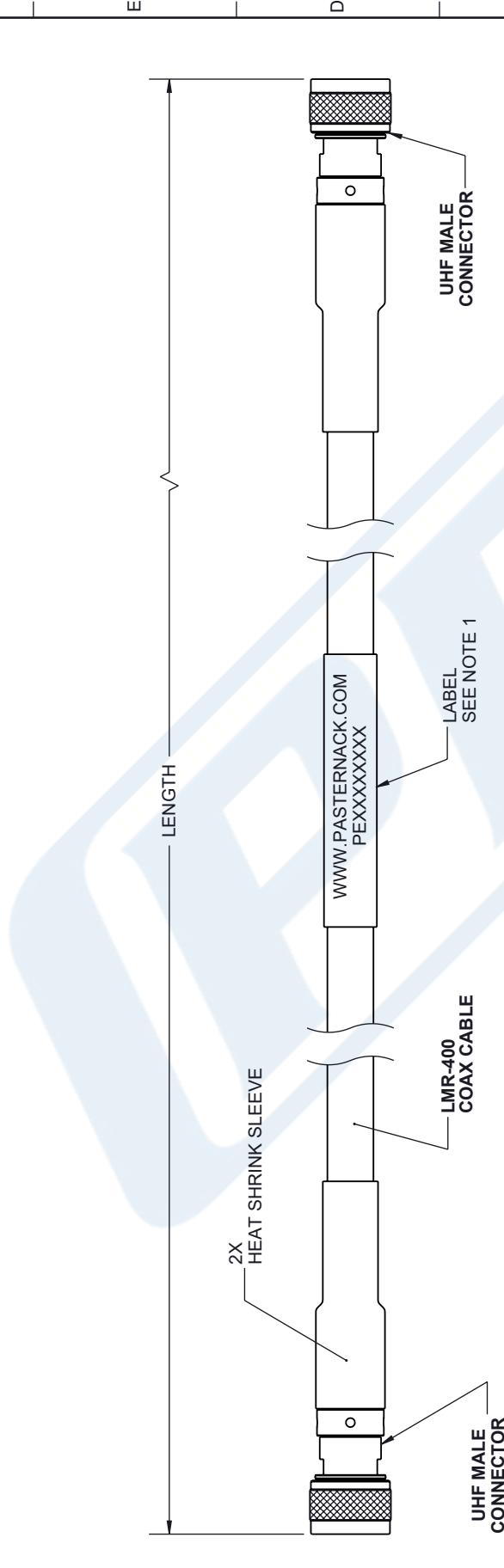
URL: <https://www.pasternack.com/uhf-male-to-uhf-male-low-loss-cable-using-lmr-400-pe3c6424-p.aspx>

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PE3C6424 CAD Drawing

UHF Male to UHF Male Low Loss Cable Using LMR-400 Coax With Times Microwave Components

ZONE	REV.	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE	12/16/2022	KDANG	AGANWANI



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.
CABLES ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
- 2.

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 PASTERNACK® an INFINITI® brand		 INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5	
		SCALE NONE	REV A
		SHOOT 1 OF 1	
		DESCRIPTION UHF Male to UHF Male Low Loss Cable Using LMR-400 Coax With Times Microwave Components	
OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED IN [] ARE MILLIMETERS		DRAWN BY KDANG	
FRACTIONS: [5] $\pm 1/32$ [2] [5] [13]		ITEM NO. PE3C6424	
LENGTH TOLERANCES: $>12.30(305) = +1 [25] / -0$ $[5] \leq 60 [1624] = +2 [51] / -0$ $[5] \leq 150 [3848] = +4 [102] / -0$ $>300 [7620] = +6 [152] / -0$ $>300 [7620] = +5\% / -0$		CAGE CODE 53919	
<small>NOTES ARE FOR REFERENCE ONLY DO NOT CHANGE WITHOUT NOTICE</small>			