



## 7/16 DIN Male to N Male Low Loss Cable Using LMR-400-UF Coax

### RF Cable Assemblies Technical Data Sheet

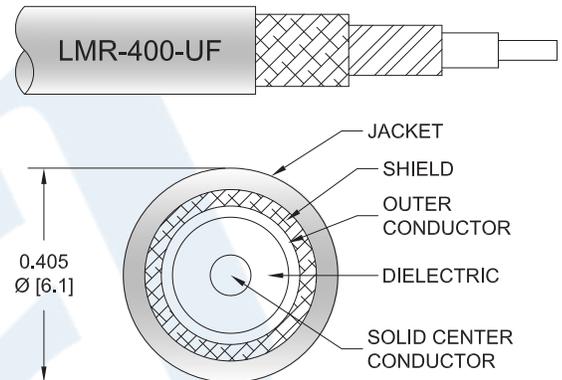
PE3W03271

#### Configuration

- Connector 1: 7/16 DIN Male
- Connector 2: N Male
- Cable Type: LMR-400-UF

#### Features

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



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W03271 7/16 DIN male to type N male cable using LMR-400-UF 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 7/16 DIN to type N cable assembly has a male to male gender configuration with 50 ohm flexible LMR-400-UF coax. The PE3W03271 7/16 DIN male to type N 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: [7/16 DIN Male to N Male Low Loss Cable Using LMR-400-UF Coax PE3W03271](#)



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**Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
VSWR			1.5:1	
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 Km]		1.07 [3.51]		Ohms/1000ft [Ohms/ Km]
DC Resistance Outer Conductor Km]		1.65 [5.41]		Ohms/1000ft [Ohms/ Km]
Jacket Spark			8,000	Vrms

**Specifications by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	3	GHz
Insertion Loss (Max.)	0.02	0.03	0.05	0.08	0.09	dB/ft
	0.07	0.1	0.16	0.26	0.3	dB/m

Electrical Specification Notes:  
Insertion Loss does not include the loss of connectors. Insertion Loss is estimated as 0.2dB of connector loss

**Mechanical Specifications**

**Cable Assembly**

Diameter 1.25 in [31.75 mm]

**Cable**

Cable Type LMR-400-UF  
 Impedance 50 Ohms  
 Inner Conductor Type Stranded  
 Inner Conductor Material and Plating Copper  
 Dielectric Type PE (F)  
 Number of Shields 2  
 Shield Layer 1 Aluminum Tape  
 Shield Layer 2 Tinned Copper Braid

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Jacket Material	TPE, 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	0.38 lbs-ft [0.52 N-m]
Flat Plate Crush	20 lbs/in [0.36 Kg/mm]
Tensile Strength	160 lbs [72.57 Kg]

**Connectors**

Description	Connector 1	Connector 2
Type	7/16 DIN Male	N Male
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Silver	Brass, Gold
Contact Plating Specification		50 μ in. minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification		150 μ in. minimum
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Plating Specification		150 μ in. minimum
Hex Size	1 1/4 inch	13/16 inch

Mechanical Specification Notes:

\*All cable assemblies have a length tolerance of 1.5% or ± 3/8", whichever is greater.

**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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**How to Order**

Part Number Configuration:

**PE3W03271**

- **xx**

**uu**

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

Example: PE3W03271-12 = 12 inches long cable  
PE3W03271-100cm = 100 cm long cable

7/16 DIN Male to N Male Low Loss Cable Using LMR-400-UF Coax 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: [7/16 DIN Male to N Male Low Loss Cable Using LMR-400-UF Coax PE3W03271](https://www.pasternack.com/7-16-din-male-n-male-lmr400uf-cable-assembly-pe3w03271-p.aspx)

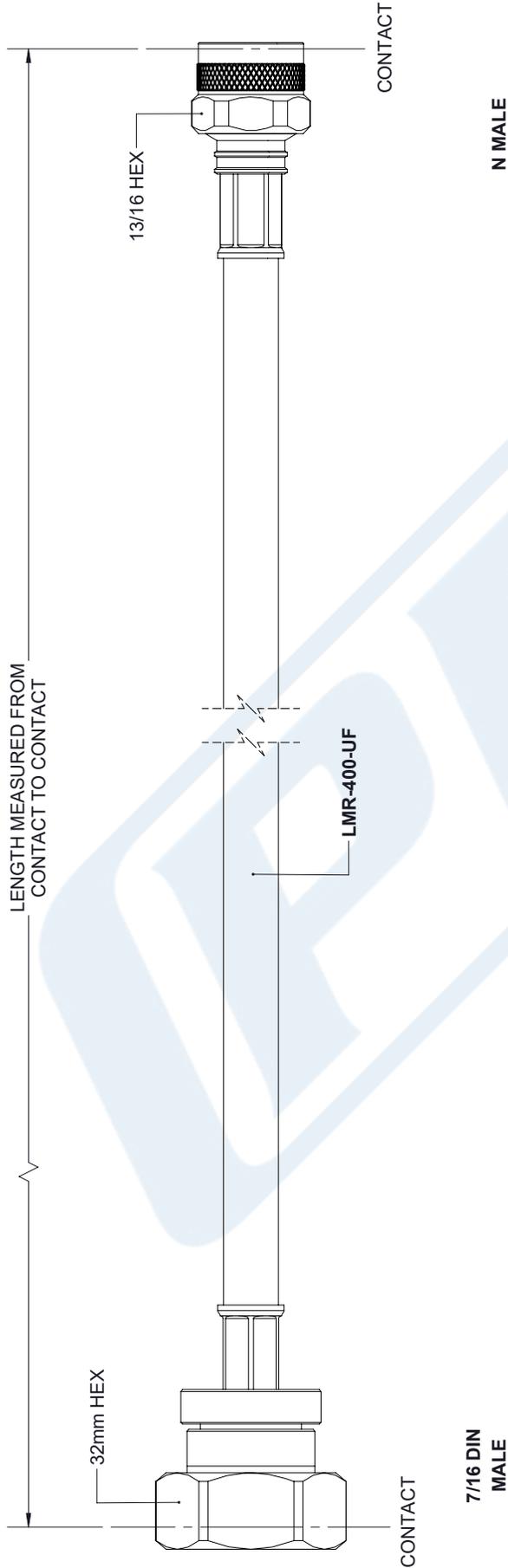
URL: <https://www.pasternack.com/7-16-din-male-n-male-lmr400uf-cable-assembly-pe3w03271-p.aspx>

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# PE3W03271 CAD Drawing

7/16 DIN Male to N Male Low Loss Cable Using LMR-400-UF Coax

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	04/30/19	S.ELLIS



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SIZE	CAGE	DRAWN BY	PART NUMBER
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