

## 4.3-10 Male to N Male Low Loss Cable Using LMR-400-DB Coax with Times Microwave Components, LF Solder



### PE3W18529LF

#### Configuration

- Connector 1: 4.3-10 Male
- Connector 2: N Male
- Cable Type: LMR-400-DB
- Coax Cable Group: 13
- Coax Flex Type: Flexible

#### Features

- Max Frequency 6 GHz
- Shielding Effectivity > 90 dB
- 85% Phase Velocity
- Double Shielded
- PE Jacket

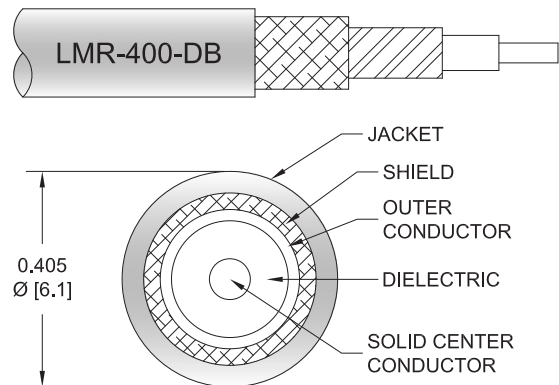
#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W18529LF 4.3-10 male to type N male cable using LMR-400-DB 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 4.3-10 to type N cable assembly has a male to male gender configuration with 50 ohm flexible LMR-400-DB coax. The PE3W18529LF 4.3-10 male to type N male cable assembly operates to 6 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.



#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
VSWR			1.4:1	
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		1.39 [4.56]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		1.65 [5.41]		Ohms/1000ft [Ohms/Km]

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### PE3W18529LF

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Jacket Spark			8,000	Vrms

#### Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency					MHz	
PE3W18529LF	Custom Lengths Available	Insertion Loss (Typ.)	0.02	0.028	0.041	0.068	0.108	dB/ft	
			0.07	0.1	0.14	0.23	0.36	dB/m	
PE3W18529LF-12	12 In	Insertion Loss (Typ.)	0.22	0.23	0.25	0.27	0.31	dB	0.314
PE3W18529LF-24	24 In	Insertion Loss (Typ.)	0.24	0.26	0.29	0.34	0.42	dB	0.385
PE3W18529LF-36	36 In	Insertion Loss (Typ.)	0.26	0.29	0.33	0.41	0.53	dB	0.455
PE3W18529LF-48	48 In	Insertion Loss (Typ.)	0.28	0.32	0.37	0.48	0.64	dB	0.525
PE3W18529LF-60	60 In	Insertion Loss (Typ.)	0.3	0.34	0.41	0.54	0.74	dB	0.595

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:	0.314 pounds
Additional Weight per Inch:	0.00584 pounds

#### Mechanical Specifications

##### Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.314 lbs [142.43 g]

##### Cable

Cable Type	LMR-400-DB
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]
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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### PE3W18529LF

#### Connectors

Description	Connector 1	Connector 2
Type	4.3-10 Male	N Male
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles	500	
Contact Material and Plating	Brass, Silver	Beryllium Copper, Gold
Contact Plating Specification		1.27 $\mu$ m minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification		2 $\mu$ m minimum
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Plating Specification		2 $\mu$ m minimum
Hex Size		20.57 mm
Torque		44 in-lbs 4.97 Nm

#### Environmental Specifications

Operating Range Temperature -40 to +85 deg C

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

#### Plotted and Other Data

Notes:

## 4.3-10 Male to N Male Low Loss Cable Using LMR-400-DB Coax with Times Microwave Components, LF Solder



### PE3W18529LF

#### Typical Performance Data

#### How to Order

Part Number Configuration:

**PE3W18529LF - xx uu**

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

Length

Base Number

Example: PE3W18529LF-12 = 12 inches long cable  
PE3W18529LF-100cm = 100 cm long cable

4.3-10 Male to N Male Low Loss Cable Using LMR-400-DB Coax with Times Microwave Components, LF Solder 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.

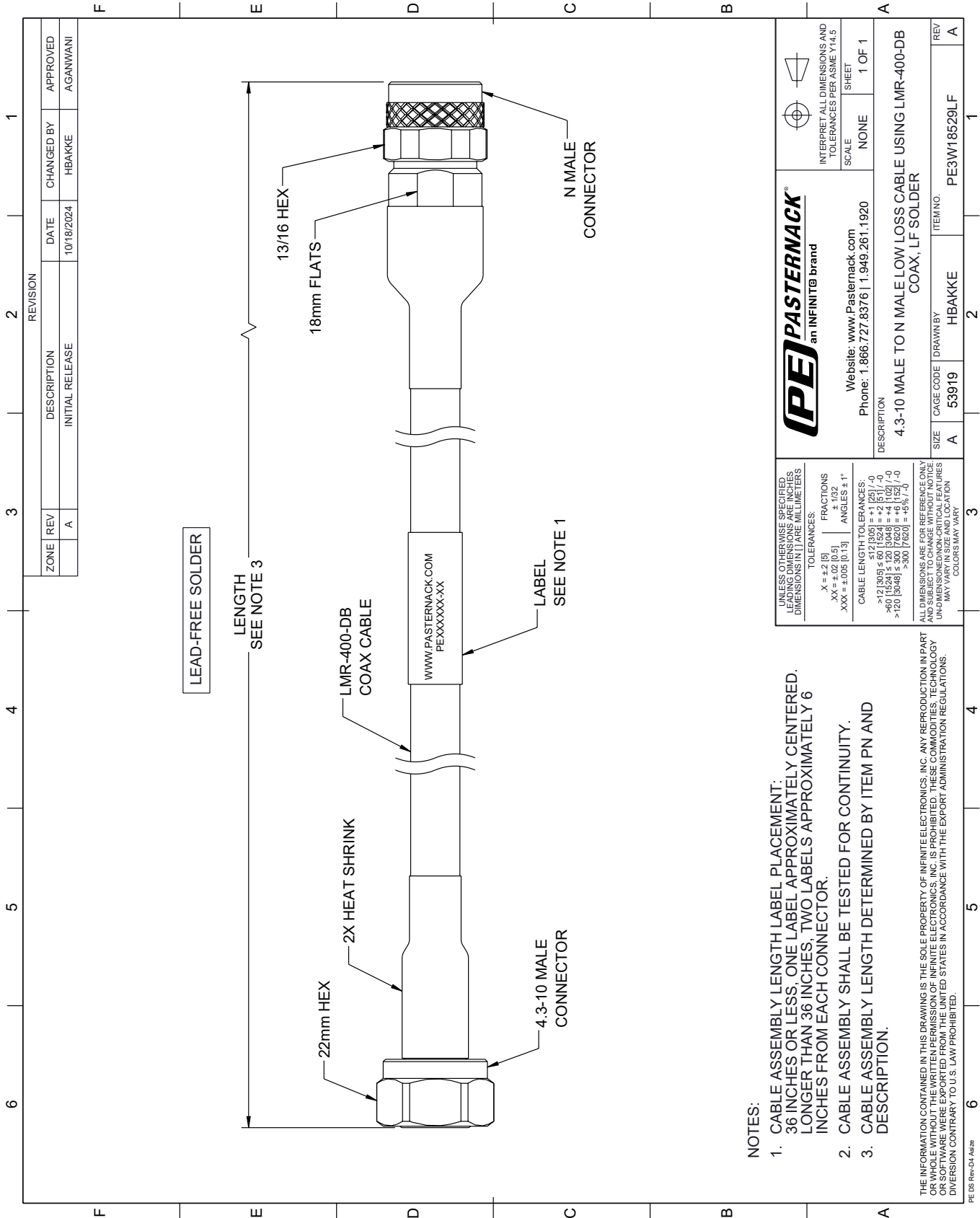
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [4.3-10 Male to N Male Low Loss Cable Using LMR-400-DB Coax with Times Microwave Components, LF Solder PE3W18529LF](#)

URL: <https://www.pasternack.com/4.3-10-male-to-n-male-low-loss-cable-using-lmr-400-db-lf-solder-pe3w18529lf-p.aspx>

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# PE3W18529LF CAD Drawing

4.3-10 Male to N Male Low Loss Cable Using LMR-400-DB Coax with Times Microwave Components, LF Solder



**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 ASSEMBLY SHALL BE TESTED FOR CONTINUITY.
3. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.

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PE DS Rev-D4 Asst

REVISION		DATE	CHANGED BY	APPROVED
ZONE	REV			
	A	10/18/2024	HBAKKE	AGANWANI
DESCRIPTION				
INITIAL RELEASE				

 Website: <a href="http://www.Pasterack.com">www.Pasterack.com</a> Phone: 1.866.727.8376   1.949.261.1920		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5
		SCALE: NONE SHEET: 1 OF 1
DESCRIPTION 4.3-10 MALE TO N MALE LOW LOSS CABLE USING LMR-400-DB COAX, LF SOLDER		
SIZE: A	CAGE CODE: 53919	DRAWN BY: HBAKKE
ITEM NO.: PE3W18529LF		REV: A

UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES, DIMENSIONS IN [ ] ARE MILLIMETERS.

TOLERANCES:  
 .X = +.2 [-]      FRACTIONS ± 1/32  
 .XX = ±.02 [0.5]      ANGLES ± 1°  
 .XXX = ±.005 [0.13]

CABLE LENGTH TOLERANCES:  
 >12 [305] ≤ 60 [1524] = +.1 [25] / -0  
 >60 [1524] ≤ 120 [3048] = +.4 [102] / -0  
 >120 [3048] ≤ 300 [7620] = +.6 [152] / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNDIMENSIONED/NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.