

## N Male to N Male Low PIM Cable Using TCOM-400 Coax With Times Microwave Components



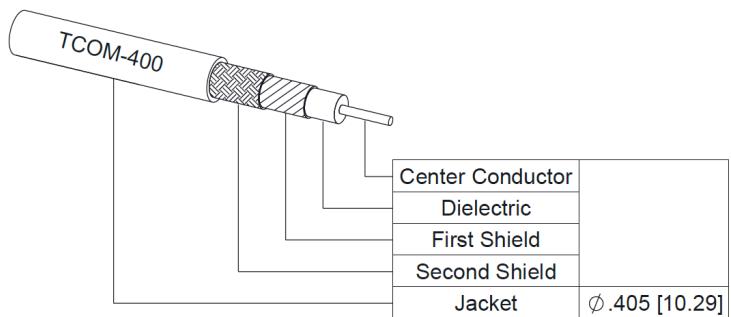
### PE3C10351

#### Configuration

- Connector 1: N Male
- Connector 2: N Male
- Cable Type: TCOM-400
- Coax Flex Type: Flexible

#### Features

- Max Frequency 6 GHz
- Shielding Effectivity > 100 dB
- 85% Phase Velocity
- Double Shielded
- PE Jacket
- 500 Mating Cycles



#### Applications

- General Purpose
- Laboratory Use
- Low PIM Applications

#### Description

Pasternack's PE3C10351 type N male to type N male cable using TCOM-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 type N to type N cable assembly has a male to male gender configuration with 50 ohm flexible TCOM-400 coax. The PE3C10351 type N male to type N male cable assembly operates to 6 GHz. Our low PIM design also offers excellent passive intermodulation performance. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness of better than 100 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	100			dB
Group Delay		1.2 [3.94]		ns/ft [ns/m]
Passive Intermodulation		-155		dBc
IM3 (2x43dBm Tones) at 850 MHz or 1900 MHz				
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		1.47 [4.82]		Ohms/1000ft [Ohms/Km]

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#### 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	250	500	1000	2500	6000	MHz	
PE3C10351	Custom Lengths Available	Insertion Loss (Typ.)	0.021	0.03	0.044	0.072	0.117	dB/ft	
			0.07	0.1	0.15	0.24	0.39	dB/m	
PE3C10351-12	12 inch	Insertion Loss (Typ.)	0.52	0.52	0.54	0.57	0.61	dB	0.28
PE3C10351-24	24 inch	Insertion Loss (Typ.)	0.54	0.55	0.58	0.64	0.73	dB	0.36
PE3C10351-36	36 inch	Insertion Loss (Typ.)	0.56	0.58	0.63	0.71	0.85	dB	0.44
PE3C10351-48	48 inch	Insertion Loss (Typ.)	0.58	0.61	0.67	0.78	0.96	dB	0.52
PE3C10351-60	60 inch	Insertion Loss (Typ.)	0.6	0.64	0.71	0.85	1.08	dB	0.6

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: 0.245 dB  
Loss due to Connector 2: 0.245 dB  
Base Weight: 0.28 pounds  
Additional Weight per Inch: 0.00666 pounds

#### Mechanical Specifications

##### Cable Assembly

Width/Diameter 0.5 in [12.7 mm]  
Weight 0.28 lbs [127.01 g]

##### Cable

Cable Type TCOM-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 Silver Plated Copper Braid  
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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#### Connectors

Description	Connector 1	Connector 2
Type	N Male	N Male
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles	500	500
Contact Material and Plating	Brass, Silver	Brass, Silver
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal

#### 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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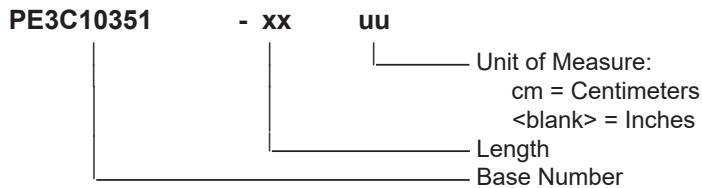


### PE3C10351

#### Typical Performance Data

#### How to Order

Part Number Configuration:



Example: PE3C10351-12 = 12 inches long cable  
PE3C10351-100cm = 100 cm long cable

N Male to N Male Low PIM Cable Using TCOM-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.

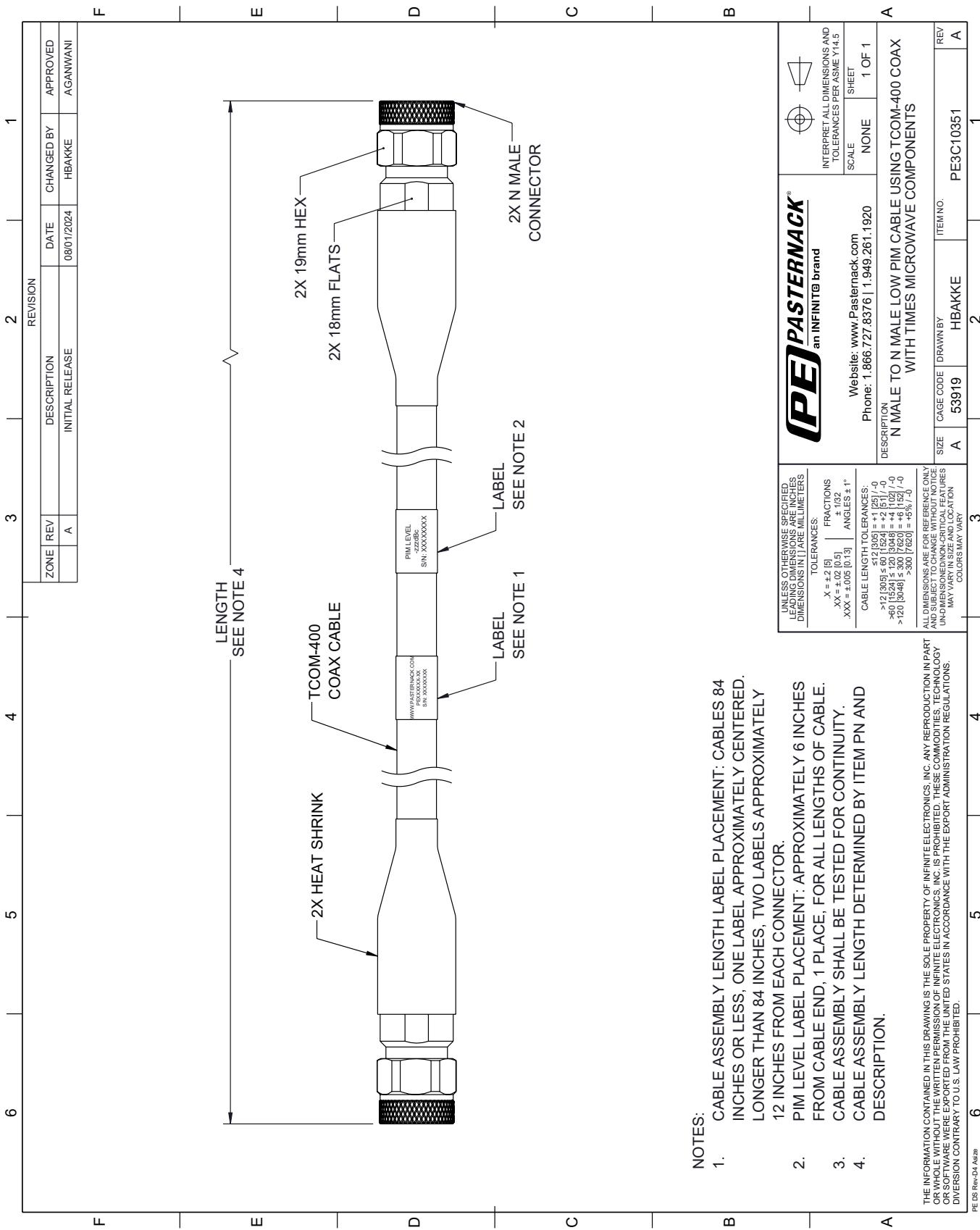
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Male to N Male Low PIM Cable Using TCOM-400 Coax With Times Microwave Components PE3C10351](#)

URL: <https://www.pasternack.com/n-male-to-n-male-low-pim-cable-using-tcom-400-pe3c10351-p.aspx>

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PE3C10351 CAD Drawing

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5

NOTES.

1. CABLE ASSEMBLY LENGTH LABEL PLACEMENT: CABLES 84 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED. LONGER THAN 84 INCHES, TWO LABELS APPROXIMATELY 12 INCHES FROM EACH CONNECTOR.
2. PIM LEVEL LABEL PLACEMENT: APPROXIMATELY 6 INCHES FROM CABLE END, 1 PLACE, FOR ALL LENGTHS OF CABLE.
3. CABLE ASSEMBLY SHALL BE TESTED FOR CONTINUITY.
4. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.

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