

## N Male to N Male Low Loss Cable Using TCOM-195 Coax With Times Microwave Components



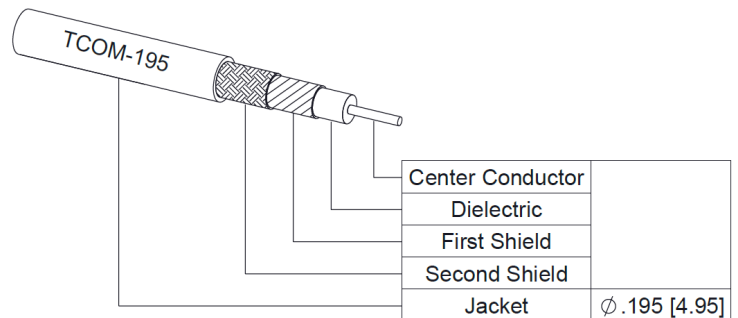
### PE3C10374

#### Configuration

- Connector 1: N Male
- Connector 2: N Male
- Cable Type: TCOM-195
- Coax Flex Type: Flexible

#### Features

- Max Frequency 8 GHz
- 80% Phase Velocity
- Triple Shielded
- PE Jacket
- 500 Mating Cycles



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3C10374 type N male to type N male cable using TCOM-195 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-195 coax. The PE3C10374 type N male to type N male cable assembly operates to 8 GHz. The triple shielding of this Pasternack cable assembly provides excellent shielding effectiveness.

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		8	GHz
VSWR			1.4:1	
Velocity of Propagation		80		%
Group Delay		1.27 [4.17]		ns/ft [ns/m]
Capacitance		25.4 [83.33]		pF/ft [pF/m]
Inductance		0.064 [0.21]		uH/ft [uH/m]
DC Resistance Inner Conductor		7.16 [23.49]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		3.42 [11.22]		Ohms/1000ft [Ohms/Km]
Jacket Spark			3,000	Vrms

#### Specifications by Frequency

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### PE3C10374

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency	500	1000	2000	4000	8000	
PE3C10374	Custom Lengths Available	Insertion Loss (Typ.)	0.073	0.106	0.153	0.216	0.322	dB/ft	
			0.24	0.35	0.51	0.71	1.06	dB/m	
PE3C10374-12	12 inch	Insertion Loss (Typ.)	0.64	0.67	0.72	0.78	0.89	dB	0.203
PE3C10374-24	24 inch	Insertion Loss (Typ.)	0.71	0.78	0.87	1	1.21	dB	0.238
PE3C10374-36	36 inch	Insertion Loss (Typ.)	0.78	0.88	1.02	1.21	1.53	dB	0.273
PE3C10374-48	48 inch	Insertion Loss (Typ.)	0.86	0.99	1.18	1.43	1.85	dB	0.308
PE3C10374-60	60 inch	Insertion Loss (Typ.)	0.93	1.09	1.33	1.64	2.17	dB	0.343

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:	0.28 dB
Loss due to Connector 2:	0.28 dB
Base Weight:	0.203 pounds
Additional Weight per Inch:	0.00291 pounds

### Mechanical Specifications

#### Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.203 lbs [92.08 g]

#### Cable

Cable Type	TCOM-195
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper
Dielectric Type	PE (F)
Number of Shields	3
Shield Layer 1	Silver Plated Copper Braid
Shield Layer 2	Tinned Copper Braid
Jacket Material	PE, Black
Jacket Diameter	0.195 in [4.95 mm]
One Time Minimum Bend Radius	0.5 in [12.7 mm]
Repeated Minimum Bend Radius	2 in [50.8 mm]
Bending Moment	0.2 lbs-ft [0.27 N-m]
Flat Plate Crush	15 lbs/in [0.27 Kg/mm]

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#### Connectors

Description	Connector 1	Connector 2
Type	N Male	N Male
Specification	MIL-STD-348	MIL-STD-348
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles	500	500
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	50 µin minimum	50 µin minimum
Dielectric Type	Teflon	Teflon
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Hex Size	13/16 Inch	13/16 Inch
Torque	9 in-lbs 1.02 Nm	9 in-lbs 1.02 Nm

#### Environmental Specifications

Operating Range Temperature -40 to +125 deg C

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

#### Plotted and Other Data

Notes:

## N Male to N Male Low Loss Cable Using TCOM-195 Coax With Times Microwave Components



### PE3C10374

#### Typical Performance Data

#### How to Order

Part Number Configuration:

**PE3C10374**

**- xx**

**uu**

Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3C10374-12 = 12 inches long cable  
PE3C10374-100cm = 100 cm long cable

N Male to N Male Low Loss Cable Using TCOM-195 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.

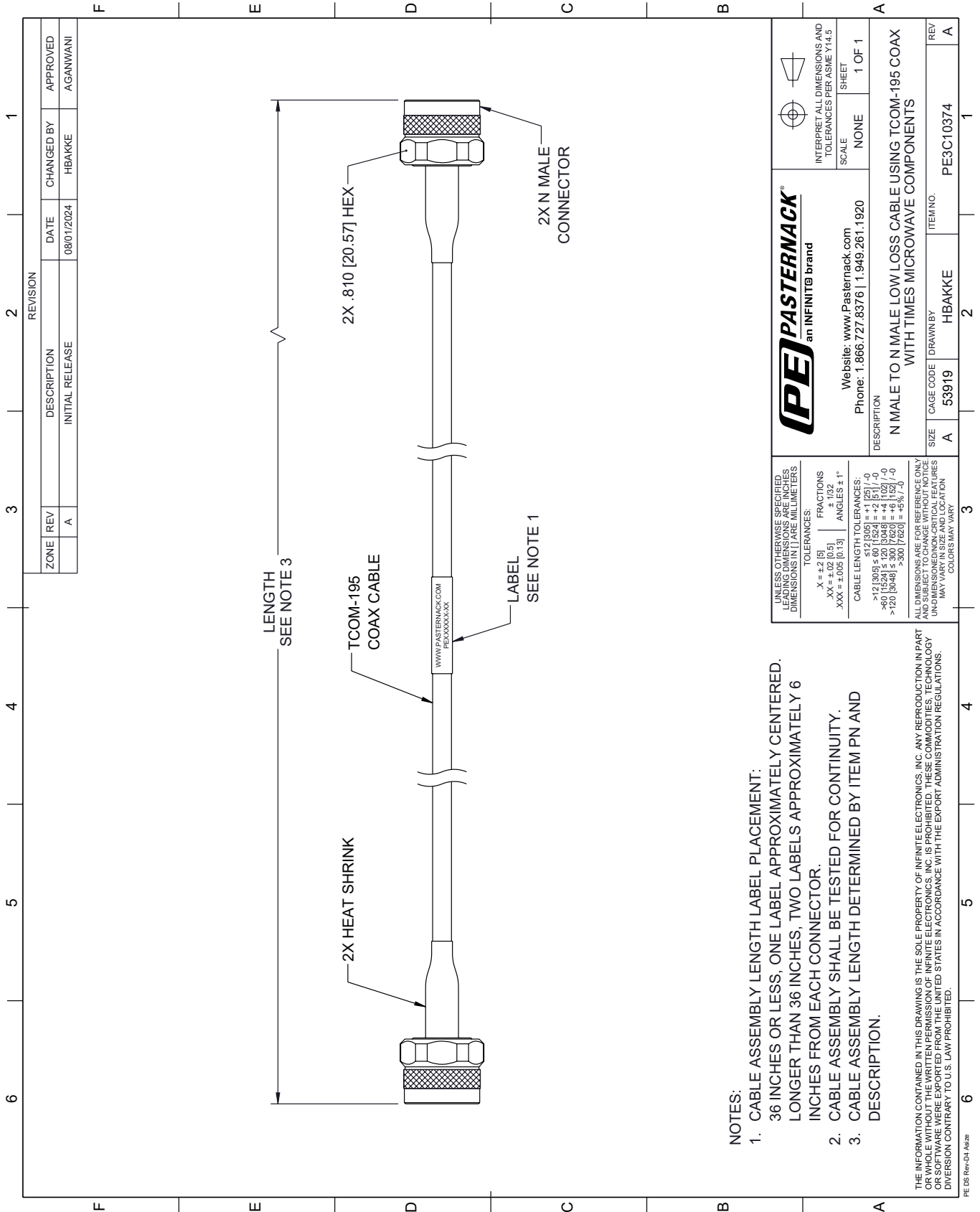
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Male to N Male Low Loss Cable Using TCOM-195 Coax With Times Microwave Components PE3C10374](#)

URL: <https://www.pasternack.com/n-male-to-n-male-low-loss-cable-using-tcom-195-pe3c10374-p.aspx>

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# PE3C10374 CAD Drawing

N Male to N Male Low Loss Cable Using TCOM-195 Coax With Times Microwave Components



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

**TOLERANCES:**  
 .X = ±.2 [5]  
 .XX = ±.02 [0.5]  
 .XXX = ±.005 [0.13]

**FRACTIONS:**  
 ± 1/32  
 ANGLES ± 1°

**CABLE LENGTH TOLERANCES:**  
 <12 [305] ≤ 60 [1524] = ±.1 [2.5] / -0  
 >60 [1524] ≤ 120 [3048] = ±.4 [102] / -0  
 >120 [3048] ≤ 300 [7620] = ±.8 [20] / -0

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

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 an INFINITE brand

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 Phone: 1.866.727.8376 | 1.949.261.1920

SCALE: NONE  
 SHEET: 1 OF 1

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

DESCRIPTION:  
 N MALE TO N MALE LOW LOSS CABLE USING TCOM-195 COAX WITH TIMES MICROWAVE COMPONENTS

SIZE	A	CAGE CODE	53919	DRAWN BY	HBAKKE	ITEM NO.	PE3C10374
REV	A						