

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

### PE3C10389

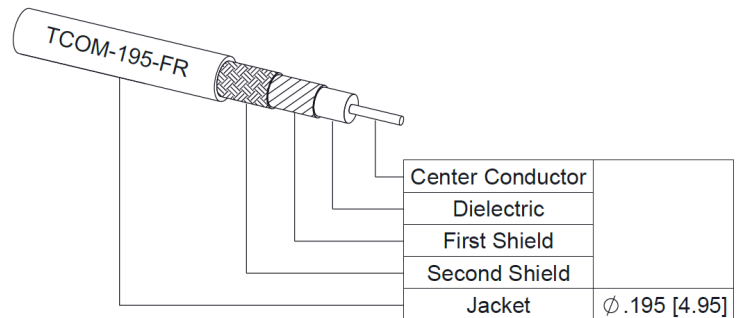


#### Configuration

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

#### Features

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



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3C10389 type N male to SMA male cable using TCOM-195-FR 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 SMA cable assembly has a male to male gender configuration with 50 ohm flexible TCOM-195-FR coax. The PE3C10389 type N male to SMA 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

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



### PE3C10389

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	500	1000	2000	4000	8000	MHz	
PE3C10389	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	
PE3C10389-12	12 inch	Insertion Loss (Typ.)	0.46	0.49	0.54	0.6	0.71	dB	0.138
PE3C10389-24	24 inch	Insertion Loss (Typ.)	0.53	0.6	0.69	0.82	1.03	dB	0.173
PE3C10389-36	36 inch	Insertion Loss (Typ.)	0.6	0.7	0.84	1.03	1.35	dB	0.208
PE3C10389-48	48 inch	Insertion Loss (Typ.)	0.68	0.81	1	1.25	1.67	dB	0.243
PE3C10389-60	60 inch	Insertion Loss (Typ.)	0.75	0.91	1.15	1.46	1.99	dB	0.278

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:	0.1 dB
Base Weight:	0.138 pounds
Additional Weight per Inch:	0.00291 pounds

### Mechanical Specifications

#### Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.138 lbs [62.6 g]

#### Cable

Cable Type	TCOM-195-FR
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]

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



### PE3C10389

#### Connectors

Description	Connector 1	Connector 2
Type	N Male	SMA Male
Specification	MIL-STD-348	
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles	500	
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	50 µin minimum	ASTM B488
Dielectric Type	Teflon	Teflon
Body Material and Plating	Brass, Tri-Metal	Passivated Stainless Steel
Coupling Nut Material and Plating	Brass, Tri-Metal	Passivated Stainless Steel
Hex Size	13/16 Inch	5/16 Inch
Torque	9 in-lbs 1.02 Nm	

#### Environmental Specifications

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

#### Plotted and Other Data

Notes:

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



### PE3C10389

#### Typical Performance Data

#### How to Order

Part Number Configuration: **PE3C10389**    **- xx**    **uu**

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

Length

Base Number

Example: PE3C10389-12 = 12 inches long cable  
PE3C10389-100cm = 100 cm long cable

Fire Rated N Male to SMA Male Low Loss Cable Using TCOM-195-FR 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.

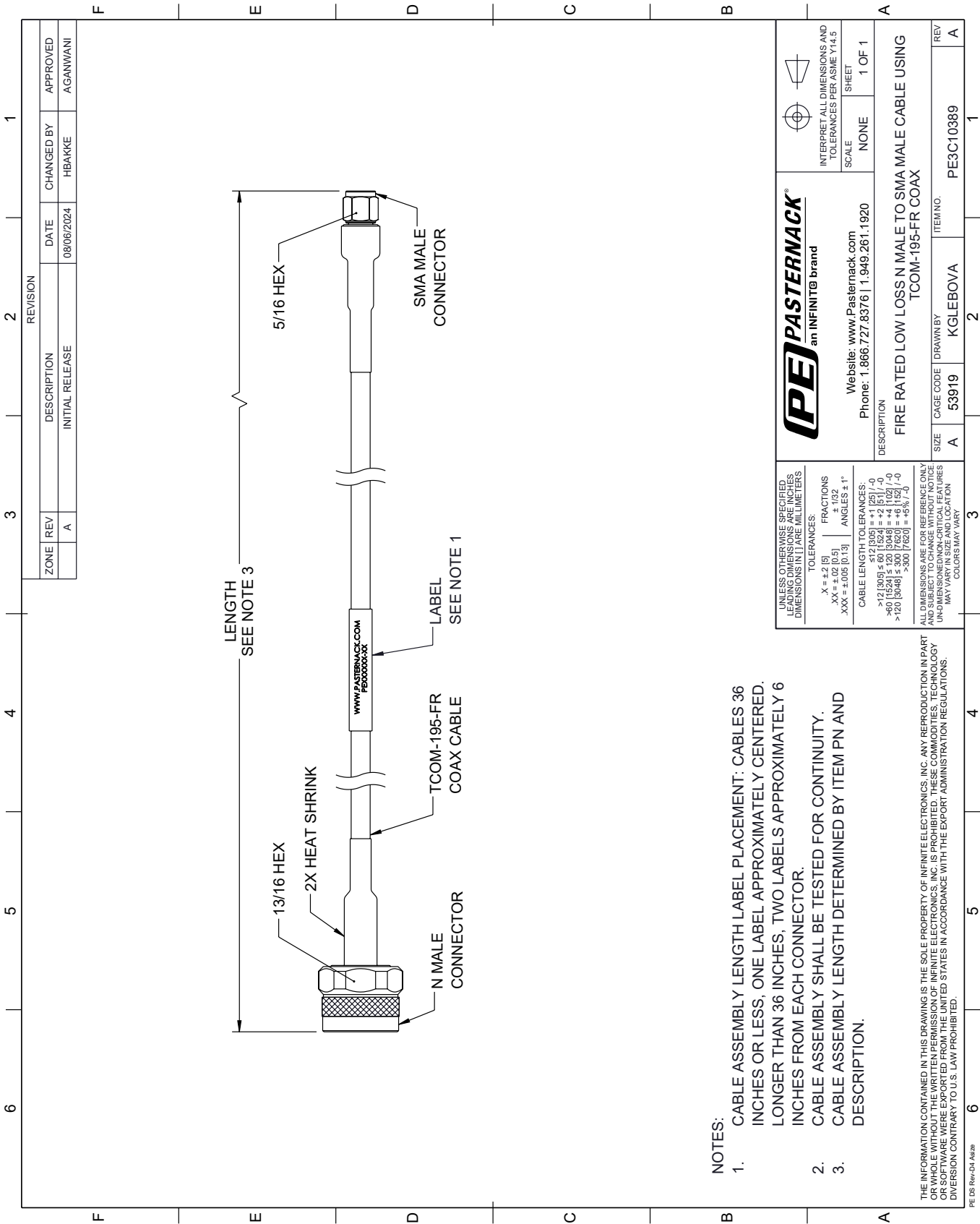
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Fire Rated N Male to SMA Male Low Loss Cable Using TCOM-195-FR Coax With Times Microwave Components PE3C10389](https://www.pasternack.com/fire-rated-n-male-to-sma-male-low-loss-cable-using-tcom-195-fr-pe3c10389-p.aspx)

URL: <https://www.pasternack.com/fire-rated-n-male-to-sma-male-low-loss-cable-using-tcom-195-fr-pe3c10389-p.aspx>

The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to implement improvements. Pasternack Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PE3C10389 CAD Drawing

Fire Rated N Male to SMA Male Low Loss Cable Using TCOM-195-FR Coax With Times Microwave Components



NOTES:

1.

CABLE ASSEMBLY LENGTH LABEL PLACEMENT: CABLES 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.

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INFINITE ELECTRONICS, INC. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF INFINITE ELECTRONICS, INC. IS PROHIBITED. THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.

PE DS Rev-D4 Adda

<b>UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES. DIMENSIONS IN [ ] ARE MILLIMETERS.</b>		<b>PE PASTERNAK®</b> an INFINITE® brand		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5	
TOLERANCES:		Website: <a href="http://www.Pasternack.com">www.Pasternack.com</a>		SCALE	
.X = ±.2 [5]		Phone: 1.866.727.8376   1.949.261.1920		NONE	
.XX = ±.02 [0.5]				SHEET	
.XXX = ±.005 [0.13]				1 OF 1	
ANGLES ± 1°					
CABLE LENGTH TOLERANCES:		DESCRIPTION			
>12 [305] ≤ 60 [1524] = ±.125 [-.0]		FIRE RATED LOW LOSS N MALE TO SMA MALE CABLE USING			
>60 [1524] ≤ 120 [3048] = ±.125 [-.0]		TCOM-195-FR COAX			
>120 [3048] ≤ 300 [7620] = ±.125 [-.0]					
>300 [7620] = ±.125 [-.0]					
ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS.		ITEM NO.			
MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.		A 53919		A	
		DRAWN BY			
		KGGLEBOVA			
		PE3C10389			
		REV			
		A			