

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



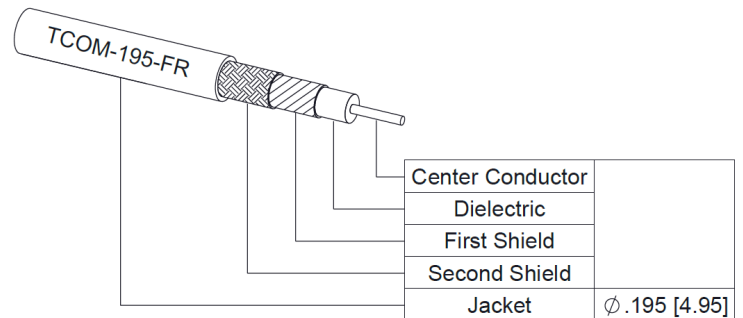
PE3C10386

Configuration

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

Features

- Max Frequency 6 GHz
- 80% Phase Velocity
- Triple Shielded
- PE Jacket
- 500 Mating Cycles



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C10386 type N male right angle to type N male right angle 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 type N cable assembly has a male to male gender configuration with 50 ohm flexible TCOM-195-FR coax. The PE3C10386 type N male to type N male cable assembly operates to 6 GHz. The right angle type N interfaces on the TCOM-195-FR cable allow for easier connections in tight spaces. 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		6	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 Right Angle to N Male
Right Angle Low Loss Cable Using TCOM-195-
FR Coax With Times Microwave Components



PE3C10386

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency		250	500	1000		
PE3C10386	Custom Lengths Available	Insertion Loss (Typ.)	0.036	0.073	0.106	0.172	0.271	dB/ft	
			0.12	0.24	0.35	0.57	0.89	dB/m	
PE3C10386-12	12 inch	Insertion Loss (Typ.)	0.44	0.48	0.51	0.58	0.68	dB	0.221
PE3C10386-24	24 inch	Insertion Loss (Typ.)	0.48	0.55	0.62	0.75	0.95	dB	0.256
PE3C10386-36	36 inch	Insertion Loss (Typ.)	0.51	0.62	0.72	0.92	1.22	dB	0.291
PE3C10386-48	48 inch	Insertion Loss (Typ.)	0.55	0.7	0.83	1.09	1.49	dB	0.326
PE3C10386-60	60 inch	Insertion Loss (Typ.)	0.58	0.77	0.93	1.26	1.76	dB	0.361

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: 0.2 dB
 Loss due to Connector 2: 0.2 dB
 Base Weight: 0.221 pounds
 Additional Weight per Inch: 0.00291 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter 0.5 in [12.7 mm]
 Weight 0.221 lbs [100.24 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 Right Angle to N Male
Right Angle Low Loss Cable Using TCOM-195-
FR Coax With Times Microwave Components



PE3C10386

Connectors

Description	Connector 1	Connector 2
Type	N Male Right Angle	N Male Right Angle
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Right Angle
Mating Cycles	500	500
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	50µ in. minimum	50µ in. minimum
Dielectric Type	Teflon	Teflon
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification	80µ in. minimum	80µ in. minimum
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Plating Specification	80µ in. minimum	80µ in. minimum
Hex Size	30	30

Environmental Specifications

Operating Range Temperature -40 to +155 deg C

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

Plotted and Other Data

Notes:

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



PE3C10386

Typical Performance Data

How to Order

Part Number Configuration:

PE3C10386

- **xx**

uu



Example: PE3C10386-12 = 12 inches long cable
PE3C10386-100cm = 100 cm long cable

Fire Rated N Male Right Angle to N Male Right Angle 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.

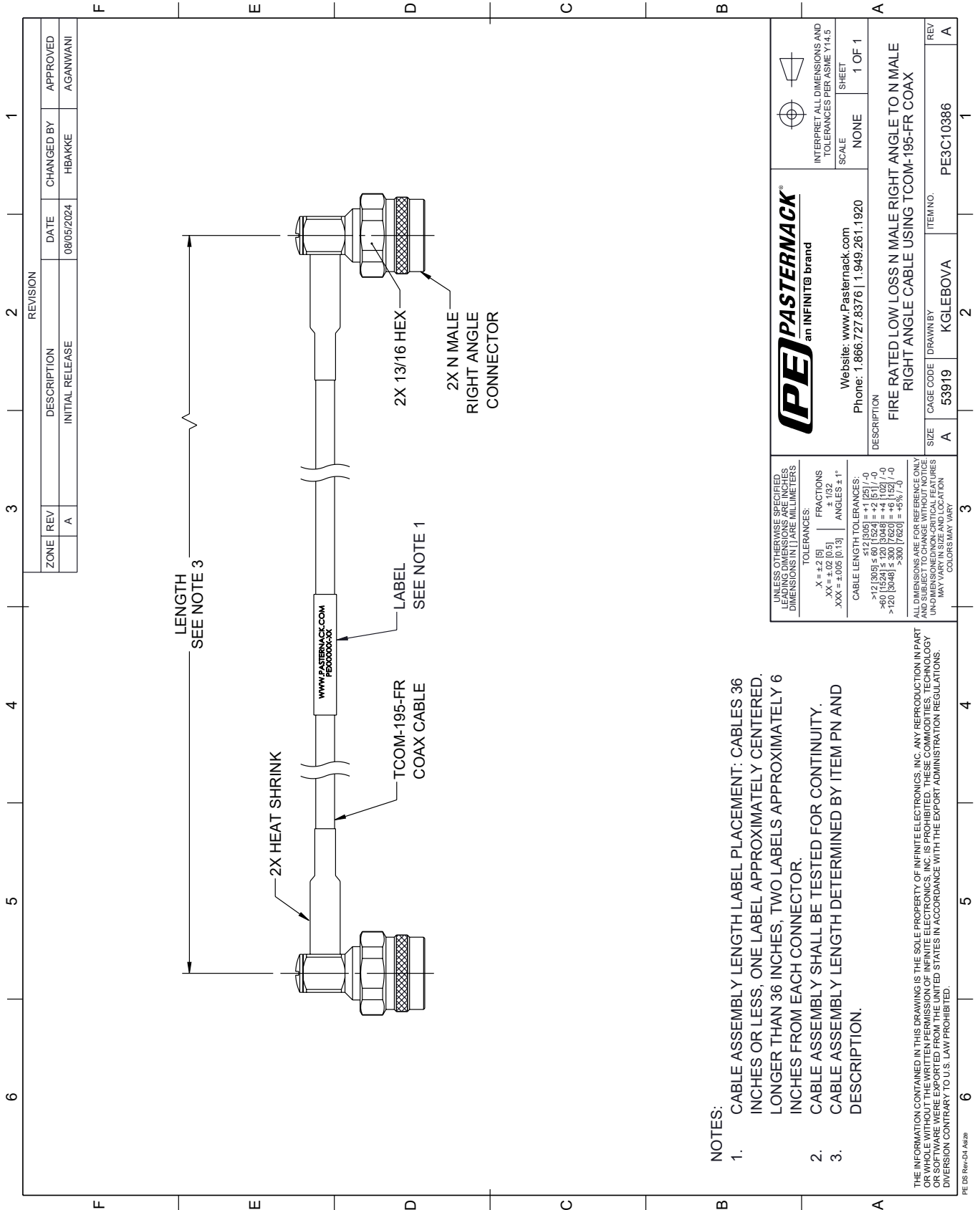
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Fire Rated N Male Right Angle to N Male Right Angle Low Loss Cable Using TCOM-195-FR Coax With Times Microwave Components PE3C10386](#)

URL: <https://www.pasternack.com/fire-rated-n-male-right-angle-to-n-male-low-loss-cable-using-tcom-195-fr-pe3c10386-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 impliment 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.

PE3C10386 CAD Drawing

Fire Rated N Male Right Angle to N Male Right Angle 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 SERVICES WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.

PE DS Rev-04 Add2

REVISION		DATE	CHANGED BY	APPROVED
ZONE	REV	DESCRIPTION	INITIAL RELEASE	
	A			AGANWANI

 Website: www.Pasternack.com 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: FIRE RATED LOW LOSS N MALE RIGHT ANGLE TO N MALE RIGHT ANGLE CABLE USING TCOM-195-FR COAX		
SIZE	CAGE CODE	ITEM NO.
A	53919	PE3C10386
DRAWN BY: KGLEBOVA		REV: A

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 [25] / -0
 >60 [1524] ≤ 120 [3048] = +.4 [102] / -0
 >120 [3048] ≤ 300 [7620] = +.6 [152] / -0
 >300 [7620] = +.6 [152] / -0

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