

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



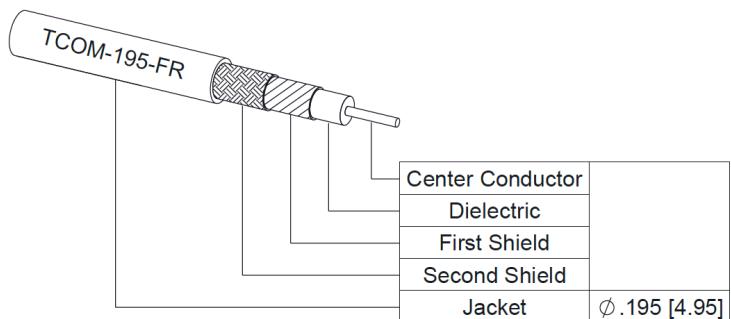
PE3C10387

Configuration

- Connector 1: SMA 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 PE3C10387 SMA 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 SMA to SMA cable assembly has a male to male gender configuration with 50 ohm flexible TCOM-195-FR coax. The PE3C10387 SMA 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

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| Part Number | Length | Description | F1 | F2 | F3 | F4 | F5 | Units | Weight (lbs) |
|--------------|--------------------------|-----------------------|-------|-------|-------|-------|-------|-------|--------------|
| | | Frequency | 500 | 1000 | 2000 | 4000 | 8000 | MHz | |
| PE3C10387 | 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 | |
| PE3C10387-12 | 12 inch | Insertion Loss (Typ.) | 0.28 | 0.31 | 0.36 | 0.42 | 0.53 | dB | 0.073 |
| PE3C10387-24 | 24 inch | Insertion Loss (Typ.) | 0.35 | 0.42 | 0.51 | 0.64 | 0.85 | dB | 0.108 |
| PE3C10387-36 | 36 inch | Insertion Loss (Typ.) | 0.42 | 0.52 | 0.66 | 0.85 | 1.17 | dB | 0.143 |
| PE3C10387-48 | 48 inch | Insertion Loss (Typ.) | 0.5 | 0.63 | 0.82 | 1.07 | 1.49 | dB | 0.178 |
| PE3C10387-60 | 60 inch | Insertion Loss (Typ.) | 0.57 | 0.73 | 0.97 | 1.28 | 1.81 | dB | 0.213 |

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: 0.073 pounds
 Additional Weight per Inch: 0.00291 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter 0.5 in [12.7 mm]
 Weight 0.073 lbs [33.11 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] |

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Connectors

| Description | Connector 1 | Connector 2 |
|-----------------------------------|----------------------------|----------------------------|
| Type | SMA Male | SMA Male |
| Impedance | 50 Ohms | 50 Ohms |
| Configuration | Straight | Straight |
| Contact Material and Plating | Brass, Gold | Brass, Gold |
| Contact Plating Specification | ASTM B488 | ASTM B488 |
| Dielectric Type | Teflon | Teflon |
| Body Material and Plating | Passivated Stainless Steel | Passivated Stainless Steel |
| Coupling Nut Material and Plating | Passivated Stainless Steel | Passivated Stainless Steel |
| Hex Size | 5/16 Inch | 5/16 Inch |

Environmental Specifications

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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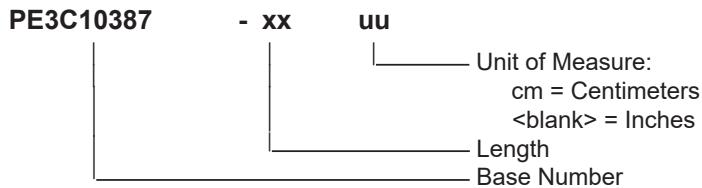


PE3C10387

Typical Performance Data

How to Order

Part Number Configuration:



Example: PE3C10387-12 = 12 inches long cable
PE3C10387-100cm = 100 cm long cable

Fire Rated SMA 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.

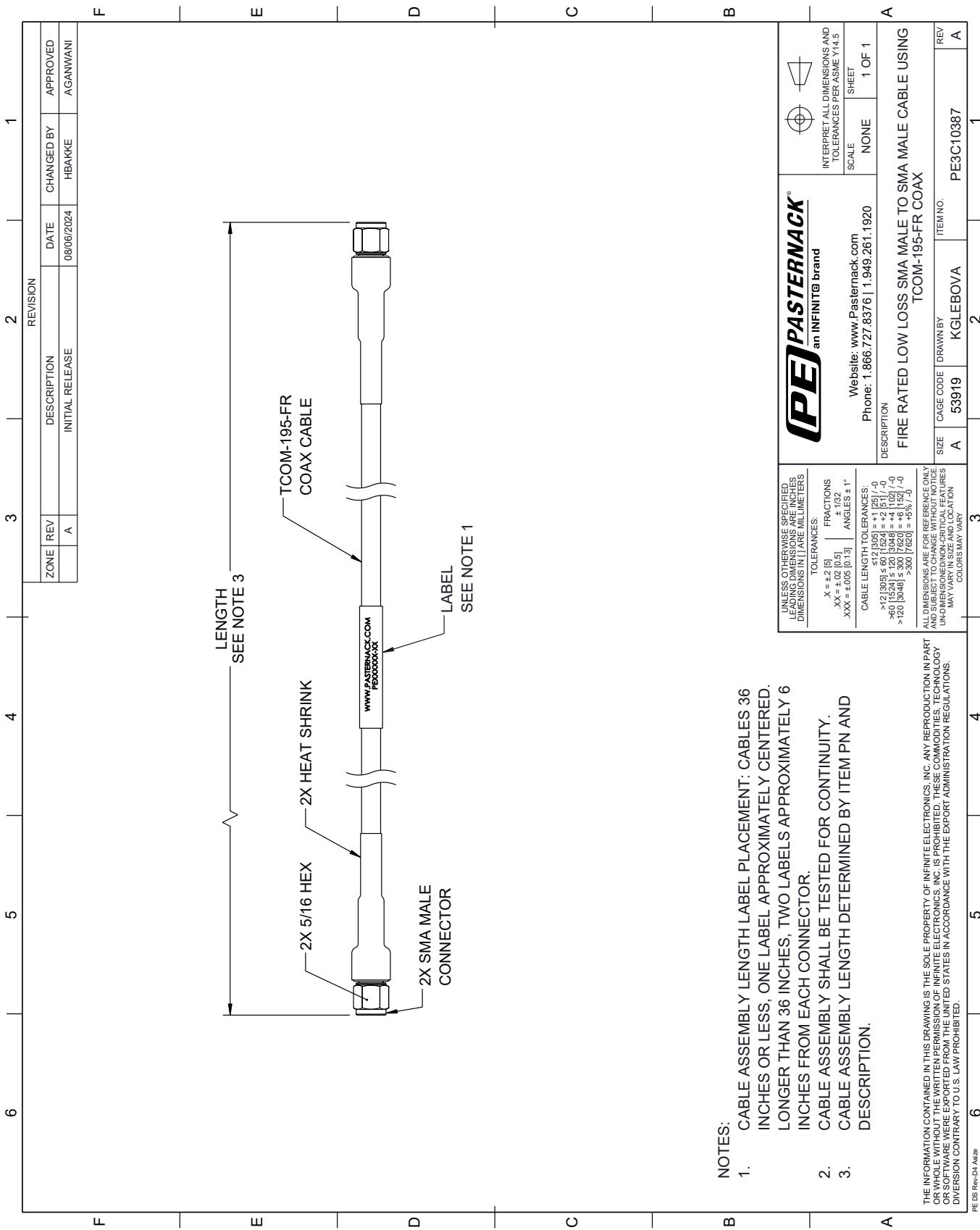
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Fire Rated SMA Male to SMA Male Low Loss Cable Using TCOM-195-FR Coax With Times Microwave Components PE3C10387](#)

URL: <https://www.pasternack.com/fire-rated-sma-male-to-sma-male-low-loss-cable-using-tcom-195-fr-pe3c10387-p.aspx>

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PE3C10387 CAD Drawing

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



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