



## SMA Male to TNC Female Cable 200 CM Length Using LMR-195-FR Coax

### RF Cable Assemblies Technical Data Sheet

PE3C5480-200CM

#### Configuration

- Connector 1: SMA Male
- Connector 2: TNC Female
- Cable Type: LMR-195-FR

#### Features

- Max Frequency 3 GHz
- Shielding Effectivity > 90 dB
- 76% Phase Velocity
- Double Shielded
- FRPE Jacket

#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3C5480-200CM SMA male to TNC female 200 cm cable using LMR-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 TNC cable assembly has a male to female gender configuration with 50 ohm flexible LMR-195-FR coax. The PE3C5480-200CM SMA male to TNC female cable assembly operates to 3 GHz. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness of better than 90 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.



Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male to TNC Female Cable 200 CM Length Using LMR-195-FR Coax PE3C5480-200CM](#)



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### Electrical Specifications

| Description                   | Minimum | Typical      | Maximum | Units           |
|-------------------------------|---------|--------------|---------|-----------------|
| Frequency Range               | DC      |              | 3       | GHz             |
| VSWR                          |         |              | 1.4:1   |                 |
| Velocity of Propagation       |         | 76           |         | %               |
| RF Shielding                  | 90      |              |         | dB              |
| 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 |         | 7.6 [24.93]  |         | Ω/1000ft [Ω/Km] |
| DC Resistance Outer Conductor |         | 4.9 [16.08]  |         | Ω/1000ft [Ω/Km] |
| Jacket Spark                  |         |              | 3,000   | Vrms            |

### Specifications by Frequency

| Description        | F1   | F2   | F3   | F4   | F5   | Units |
|--------------------|------|------|------|------|------|-------|
| Frequency          | 0.1  | 0.25 | 0.5  | 1    | 3    | GHz   |
| Return Loss (Max.) | 0.43 | 0.57 | 0.88 | 0.97 | 1.55 | dB    |

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.2dB of connector loss.

### Mechanical Specifications

#### Cable Assembly

|          |                    |
|----------|--------------------|
| Length*  | 78.74 in [200 cm]  |
| Diameter | 0.57 in [14.48 mm] |

#### Cable

|                                      |                     |
|--------------------------------------|---------------------|
| Cable Type                           | LMR-195-FR          |
| Impedance                            | 50 Ohms             |
| Inner Conductor Type                 | Solid               |
| Inner Conductor Material and Plating | Copper              |
| Dielectric Type                      | PE                  |
| Number of Shields                    | 2                   |
| Shield Layer 1                       | Aluminum Tape       |
| Shield Layer 2                       | Tinned Copper Braid |
| Jacket Material                      | FRPE, Black         |
| Jacket Diameter                      | 0.195 in [4.95 mm]  |

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|                              |                        |
|------------------------------|------------------------|
| 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] |
| Tensile Strength             | 40 lbs [18.14 Kg]      |

#### Connectors

| Description                        | Connector 1        | Connector 2     |
|------------------------------------|--------------------|-----------------|
| Type                               | SMA Male           | TNC Female      |
| Specification                      | MIL-STD-348A       | MIL-STD-348A    |
| Impedance                          | 50 Ohms            | 50 Ohms         |
| Contact Material and Plating       | Brass, Gold        | Brass, Gold     |
| Contact Plating Specification      | 50 µin minimum     | 30 µin minimum  |
| Dielectric Type                    | PTFE               | PTFE            |
| Body Material and Plating          | Brass, Nickel      | Brass, Nickel   |
| Body Plating Specification         | 100 µin minimum    | 100 µin minimum |
| Coupling Nut Material and Plating  | Brass, Nickel      |                 |
| Coupling Nut Plating Specification | 100 µin minimum    |                 |
| Hex Size                           | 5/16 inch          |                 |
| Torque                             | 3 in-lbs [0.34 Nm] |                 |

#### Mechanical Specification Notes:

\*All cable assemblies have a length tolerance of 1.5% or  $\pm 3/8"$ , whichever is greater.

#### Environmental Specifications

##### Temperature

Operating Range

-40 to +85 deg C

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

#### Plotted and Other Data

Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male to TNC Female Cable 200 CM Length Using LMR-195-FR Coax PE3C5480-200CM](#)



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Typical Performance Data



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## SMA Male to TNC Female Cable 200 CM Length Using LMR-195-FR Coax

### RF Cable Assemblies Technical Data Sheet

PE3C5480-200CM

#### How to Order

Part Number Configuration:

**PE3C5480**

**- xx**

**uu**

Unit of Measure:  
cm = Centimeters  
<blank> = Inches  
Length  
Base Number

Example: PE3C5480-12 = 12 inches long cable  
PE3C5480-100cm = 100 cm long cable

SMA Male to TNC Female Cable 200 CM Length Using LMR-195-FR Coax 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.

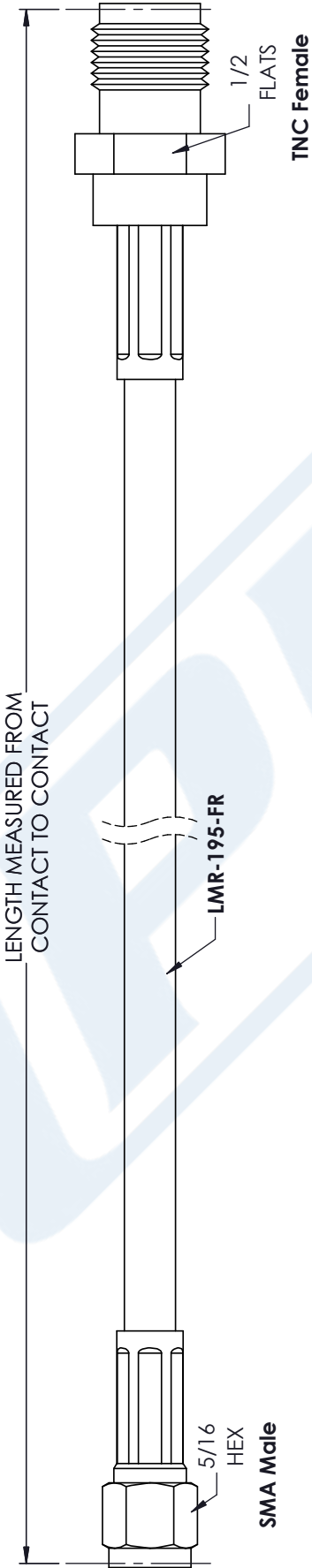
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male to TNC Female Cable 200 CM Length Using LMR-195-FR Coax PE3C5480-200CM](#)

URL: <https://www.pasternack.com/sma-male-tnc-female-lmr195fr-cable-assembly-pe3c5480-200cm-p.aspx>

The information contained in 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 reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

PE3C5480-200CM CAD Drawing

SMA Male to TNC Female Cable 200 CM Length Using LMR-195-FR Coax



| STANDARD TOLERANCES |        |
|---------------------|--------|
| .X                  | ±0.2   |
| .XX                 | ±0.01  |
| .XXX                | ±0.005 |

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES



**PASTERNAK®**  
THE ENGINEER'S RF SOURCE

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|           |          |
|-----------|----------|
| DWG TITLE | PE3C5480 |
| CAGE CODE | 53919    |

|  |          |          |       |     |      |   |        |
|--|----------|----------|-------|-----|------|---|--------|
| NOTES:<br>1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.<br>2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME<br>3. DIMENSIONS ARE IN INCHES [mm]. | CAD FILE | 09/27/18 | SCALE | N/A | SIZE | A | CN2379 |
|  |          |          |       |     |      |   |        |