



### **RF Cable Assemblies Technical Data Sheet**

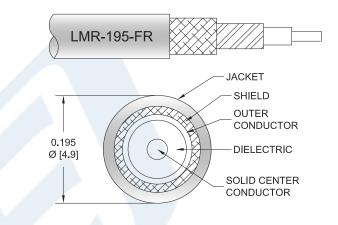
PE3C5480-48

# Configuration

Connector 1: SMA MaleConnector 2: TNC FemaleCable 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 PE3C5480-48 SMA male to TNC female 48 inch 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 PE3C5480-48 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 48 Inch Length Using LMR-195-FR Coax PE3C5480-48

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451





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### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
VSWR		733	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.)	0.34	0.43	0.62	0.67	1.03	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\* 48 in [121.92 cm]
Diameter 0.57 in [14.48 mm]

### Cable

Cable TypeLMR-195-FRImpedance50 OhmsInner Conductor TypeSolidInner Conductor Material and PlatingCopperDielectric TypePENumber of Shields2

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 Repeated Minimum Bend Radius Bending Moment Flat Plate Crush Tensile Strength 0.5 in [12.7 mm] 2 in [50.8 mm] 0.2 lbs-ft [0.27 N-m] 15 lbs/in [0.27 Kg/mm] 40 lbs [18.14 Kg]

### Connectors

Description	Connector 1	Connector 2		
Туре	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:

#### **Environmental Specifications**

**Temperature** 

Operating Range -40 to +85 deg C

Compliance Certifications (see product page for current document)

### **Plotted and Other Data**

Notes:

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<sup>\*</sup>All cable assemblies have a length tolerance of 1.5% or ± 3/8", whichever is greater.





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### **Typical Performance Data**



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#### **How to Order**



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

SMA Male to TNC Female Cable 48 Inch 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 48 Inch Length Using LMR-195-FR Coax PE3C5480-48

URL: https://www.pasternack.com/sma-male-tnc-female-Imr195fr-cable-assembly-pe3c5480-48-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.

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PE3C5480-48 CAD Drawing
SMA Male to TNC Female Cable 48 Inch Length Using LMR-195-FR Coax

