

# TNC Male to TNC Male Cable Using LMR-195-FR Coax



### RF Cable Assemblies Technical Data Sheet

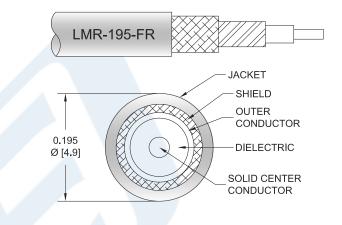
PE3W05242

# Configuration

Connector 1: TNC MaleConnector 2: TNC MaleCable Type: LMR-195-FR

## **Features**

- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 76% Phase Velocity
- · Double Shielded
- FRPE Jacket



# **Applications**

· General Purpose

· Laboratory Use

### Description

Pasternack's PE3W05242 TNC male to TNC male 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 TNC to TNC cable assembly has a male to male gender configuration with 50 ohm flexible LMR-195-FR coax. The PE3W05242 TNC male to TNC male cable assembly operates to 5.8 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: TNC Male to TNC Male Cable Using LMR-195-FR Coax PE3W05242

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		5.8	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]		Ohms/1000ft [Ohms/
Km]				
DC Resistance Outer Conductor		4.9 [16.08]		Ohms/1000ft [Ohms/
Km]				
Jacket Spark			3,000	Vrms

### **Specifications by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	3	GHz
Insertion Loss (Max.)	0.057 0.19	0.08 0.26	0.11 0.36	0.19 0.62	0.2 0.66	dB/ft dB/m

**Electrical Specification Notes:** 

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.2dB of connector loss.

### **Mechanical Specifications**

# **Cable Assembly**

Diameter 0.591 in [15.01 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

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Jacket MaterialFRPE, BlackJacket Diameter0.195 in [4.95 mm]

One Time Minimum Bend Radius

Repeated Minimum Bend Radius

2 in [50.8 mm]

Bending Moment

0.2 lbs-ft [0.27 N-m]

Flat Plate Crush

Tensile Strength

0.5 in [12.7 mm]

2 in [50.8 mm]

40 lbs-ft [0.27 Kg/mm]

40 lbs [18.14 Kg]

### Connectors

Description	Connector 1	Connector 2	
Туре	TNC Male	TNC Male	
Impedance	50 Ohms	50 Ohms	
Contact Material and Plating	Brass, Gold	Brass, Gold	
Contact Plating Specification	30 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	Brass, Nickel	
Coupling Nut Plating Specification	100 µin minimum	100 µin minimum	

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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PE3W05242

### How to Order



Example: PE3W05242-12 = 12 inches long cable PE3W05242-100cm = 100 cm long cable

TNC Male to TNC Male Cable 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: TNC Male to TNC Male Cable Using LMR-195-FR Coax PE3W05242

URL: https://www.pasternack.com/tnc-male-tnc-male-lmr195fr-cable-assembly-pe3w05242-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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**PE3W05242 CAD Drawing**TNC Male to TNC Male Cable Using LMR-195-FR Coax

