



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

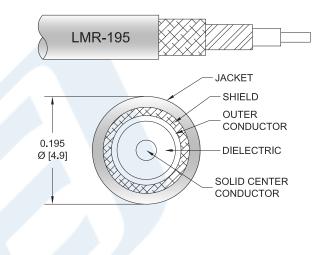
## PE3W00780-50CM

## Configuration

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

#### Features

- Max Frequency 3 GHz
- Shielding Effectivity > 90 dB
- 80% Phase Velocity
- Double Shielded
- PE Jacket



### **Applications**

General Purpose

Laboratory Use

#### Description

Pasternack's PE3W00780-50CM TNC male to TNC female bulkhead 50 cm cable using LMR-195 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 female gender configuration with 50 ohm flexible LMR-195 coax. The PE3W00780-50CM TNC male to TNC female cable assembly operates to 3 GHz. Our RF cable assembly with TNC bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications. 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 Female Bulkhead Cable 50 cm Length Using LMR-195 Coax PE3W00780-50CM

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





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#### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
VSWR			1.5:1	
Velocity of Propagation		80		%
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
Insertion Loss (Max.)	0.25	0.3	0.33	0.37	0.53	dB

#### **Electrical Specification Notes:**

The Insertion Loss data above is based on the performance specifications of the coax cable used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1dB per connector

### **Mechanical Specifications**

Cable Assembly	
Length*	
Diameter	

#### Cable

Cable Type Impedance Inner Conductor Type Inner Conductor Material and Plating Dielectric Type Number of Shields Shield Layer 1 Shield Layer 2 19.69 in [500.13 mm] 0.689 in [17.5 mm]

LMR-195 50 Ohms Solid Copper PE (F) 2 Aluminum Tape Tinned Copper Braid

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Jacket Material Jacket Diameter

One Time Minimum Bend Radius Repeated Minimum Bend Radius Bending Moment Flat Plate Crush Tensile Strength PE, Black 0.195 in [4.95 mm]

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

Connector 1 TNC Male MIL-STD-348A	Connector 2 TNC Female Bulkhead MIL-STD-348A	
MIL-STD-348A		
	MIL-STD-348A	
EQ Ohma		
50 Onms	50 Ohms	
Brass, Gold	Brass, Gold	
30µ in. minimum	30µ in. minimum	
Teflon	Teflon	
Brass, Nickel	Brass, Nickel	
100µ in. minimum	100µ in. minimum	
	30µ in. minimum Teflon Brass, Nickel	

Mechanical Specification Notes:

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

Compliance Certifications (see product page for current document)

#### **Plotted and Other Data**

Notes:

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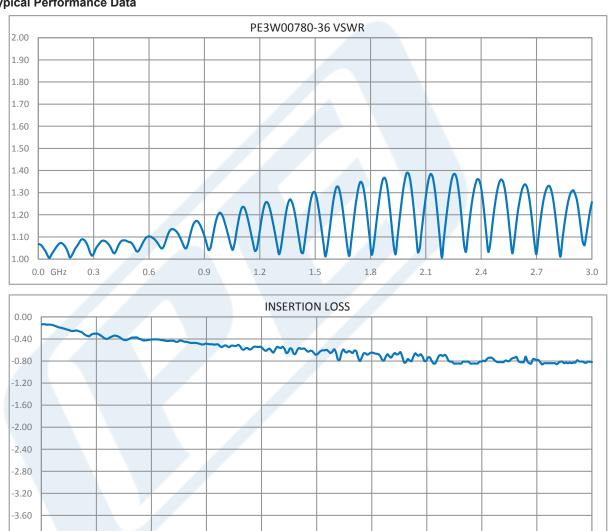
TNC Male to TNC Female Bulkhead Cable 50 cm Length Using LMR-195 Coax

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2.7

3.0



### Typical Performance Data

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1.5

1.8

2.1

2.4

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4.00

0.0 GHz

0.3

0.9

1.2

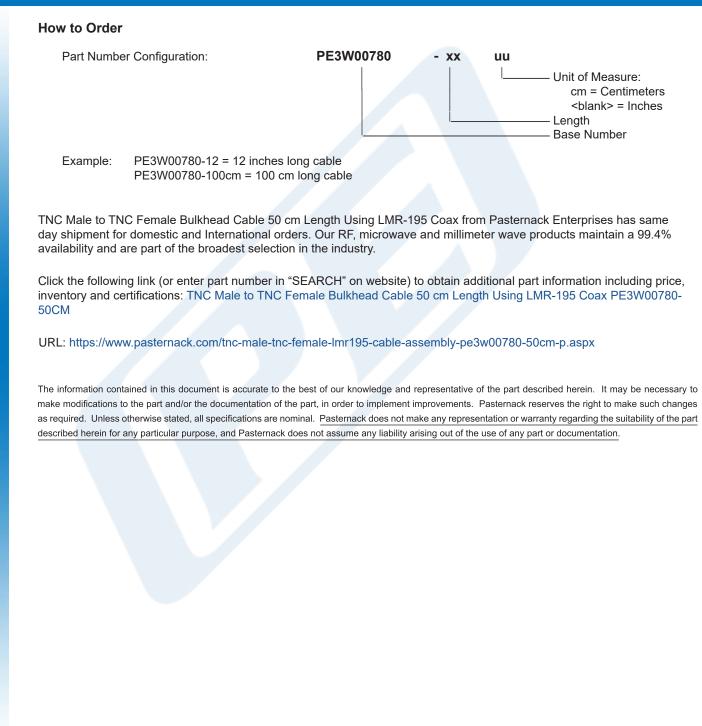
0.6





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PE3W00780-50CM CAD Drawing TNC Male to TNC Female Bulkhead Cable 50 cm Length Using LMR-195 Coax

