



### RF Cable Assemblies Technical Data Sheet

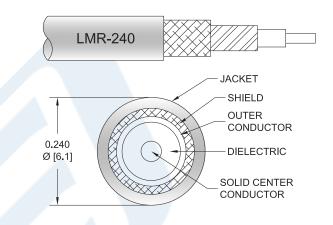
PE3C0994/HS-48

### Configuration

Connector 1: TNC MaleConnector 2: TNC FemaleCable Type: LMR-240

#### **Features**

- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 84% Phase Velocity
- · Double Shielded
- PE Jacket



# **Applications**

· General Purpose

· Laboratory Use

#### Description

Pasternack's PE3C0994/HS-48 TNC male to TNC female 48 inch cable using LMR-240 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-240 coax. The PE3C0994/HS-48 TNC male to TNC female 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 Female Cable 48 Inch Length Using LMR-240 Coax with HeatShrink PE3C0994/HS-48

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**

Minimum	Typical	Maximum	Units
DC		5.8	GHz
	/ //	1.45:1	
	84		%
90			dB
	1.21 [3.97]		ns/ft [ns/m]
	24.2 [79.4]		pF/ft [pF/m]
	0.06 [0.2]		uH/ft [uH/m]
	3.2 [10.5]		Ω/1000ft [Ω/Km]
	3.89 [12.76]		Ω/1000ft [Ω/Km]
		5,000	Vrms
	DC	90  1.21 [3.97] 24.2 [79.4] 0.06 [0.2] 3.2 [10.5]	DC 5.8  1.45:1  84  90  1.21 [3.97]  24.2 [79.4]  0.06 [0.2]  3.2 [10.5]  3.89 [12.76]

#### **Specifications by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	5.8	GHz
Insertion Loss (Max.)	0.35	0.39	0.47	0.72	1.02	dB

**Electrical Specification Notes:** 

The Insertion Loss data above is based on the performance specifications of the coax used in this assembly. Insertion Loss is estimated as 0.1 dB per connector.

### **Mechanical Specifications**

#### **Cable Assembly**

Length\* 48 in [121.92 cm]
Diameter 0.59 in [14.99 mm]

#### Cable

Cable Type
Impedance
Impedance
Inner Conductor Type
Inner Conductor Material and Plating
Dielectric Type
Number of Shields
Shield Lever 1

Shield Layer 1 Aluminum Tape
Shield Layer 2 Tinned Copper Braid
Jacket Material PE, Black

Jacket Material PE, Black

Jacket Diameter 0.24 in [6.1 mm]

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One Time Minimum Bend Radius Repeated Minimum Bend Radius Bending Moment Flat Plate Crush Tensile Strength 0.75 in [19.05 mm] 2.5 in [63.5 mm] 0.25 lbs-ft [0.34 N-m] 20 lbs/in [0.36 Kg/mm] 80 lbs [36.29 Kg]

#### **Connectors**

NC Male 50 Ohms	TNC Female 50 Ohms	
rass, Gold Pho	Phosphor Bronze, Gold	
POM	PTFE	
ass, Nickel	Brass, Nickel	
6	POM rass, Nickel	

### **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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PE3C0994/HS-48

#### **How to Order**

Example: PE3C0994/HS-12 = 12 inches long cable PE3C0994/HS-100cm = 100 cm long cable

TNC Male to TNC Female Cable 48 Inch Length Using LMR-240 Coax with HeatShrink 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.

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URL:

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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PE3C0994/HS-48 CAD Drawing
TNC Male to TNC Female Cable 48 Inch Length Using LMR-240 Coax with HeatShrink

