



TNC Male to TNC Male Low Loss Cable Using LMR-195 Coax with HeatShrink

TECHNICAL DATA SHEET

PE3C0042/HS

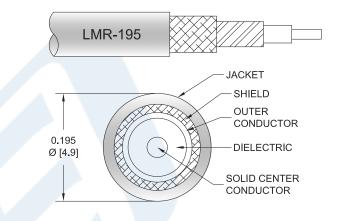
Configuration

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

· Coax Flex Type: Flexible

Features

- · Max Frequency 6 GHz
- Shielding Effectivity > 90 dB
- 80% Phase Velocity
- · Double Shielded
- PE Jacket



Applications

· General Purpose

Laboratory Use

Description

Pasternack's PE3C0042/HS TNC male to TNC male 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 male gender configuration with 50 ohm flexible LMR-195 coax. The PE3C0042/HS TNC male to TNC male cable assembly operates to 6 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 Low Loss Cable Using LMR-195 Coax with HeatShrink PE3C0042/HS

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		6	GHz
VSWR		750	1.4:1	
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

Part Number	nber Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
Part Number		Frequency	250	500	1000	2500	6000	MHz	
PE3C0042/HS	Custom Lengths	Insertion Loss (Typ.)	0.06	0.08	0.12	0.19	0.3	dB/ft	
FE3C0042/113	Available	iliseitioli Loss (Typ.)	0.19	0.27	0.39	0.63	0.99	dB/m	
PE3C0042/HS-12	12 inch	Insertion Loss (Typ.)	0.26	0.29	0.32	0.39	0.5	dB	0.088
PE3C0042/HS-24	24 inch	Insertion Loss (Typ.)	0.32	0.37	0.44	0.58	0.8	dB	0.111
PE3C0042/HS-36	36 inch	Insertion Loss (Typ.)	0.38	0.45	0.56	0.77	1.1	dB	0.133
PE3C0042/HS-48	48 inch	Insertion Loss (Typ.)	0.43	0.53	0.67	0.96	1.4	dB	0.155
PE3C0042/HS-60	60 inch	Insertion Loss (Typ.)	0.49	0.61	0.79	1.15	1.7	dB	0.177

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

Loss due to Connector 1:

O.1 dB

Loss due to Connector 2:

0.1 dB

Base Weight:

0.088 pounds

Additional Weight per Inch:

0.00184 pounds

Mechanical Specifications

Cable Assembly

Weight 0.088 lbs [39.92 g]

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Cable

Cable Type Impedance

Inner Conductor Type

Inner Conductor Material and Plating

Dielectric Type Number of Shields

Shield Layer 1

Shield Layer 2

Jacket Material

Jacket Diameter

One Time Minimum Bend Radius Repeated Minimum Bend Radius

Bending Moment

Flat Plate Crush

Tensile Strength

LMR-195

50 Ohms

Solid

Copper

PE(F)

Aluminum Tape

Tinned Copper Braid

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	Connector 2			
TNC Male Threaded	TNC Male Threaded			
50 Ohms	50 Ohms			
Brass, Gold	Brass, Gold			
30 µin minimum	30 μin minimum			
PTFE	PTFE			
Brass, Nickel	Brass, Nickel			
100 μin minimum	100 µin minimum			
Brass, Nickel	Brass, Nickel			
100 μin minimum	100 µin minimum			
	TNC Male Threaded 50 Ohms Brass, Gold 30 µin minimum PTFE Brass, Nickel 100 µin minimum Brass, Nickel			

Environmental Specifications

Temperature

Operating Range -40 to +85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

· Values at 25°C, sea level.

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How to Order



Example: PE3C0042/HS-12 = 12 inches long cable PE3C0042/HS-100cm = 100 cm long cable

TNC Male to TNC Male Low Loss Cable Using LMR-195 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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PE3C0042/HS CAD Drawing

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