



RF Cable Assemblies Technical Data Sheet

PE3W06109LF/HS-24

Configuration

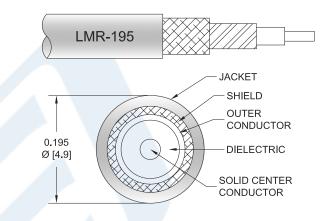
• Connector 1: TNC Male Right Angle

• Connector 2: TNC Female

• 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 PE3W06109LF/HS-24 TNC male right angle to TNC female 24 inch 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 PE3W06109LF/HS-24 TNC male to TNC female cable assembly operates to 3 GHz. The right angle TNC interface on the LMR-195 cable allows for easier connections in tight spaces. 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 Right Angle to TNC Female Cable 24 Inch Length Using LMR-195 Coax with Heat-Shrink, LF Solder PE3W06109LF/HS-24

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		/ //	1.4:1	
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]		Ohms/1000ft [Ohms/
Km]				
DC Resistance Outer Conductor		4.9 [16.08]		Ohms/1000ft [Ohms/
Km]	V			
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.)	0.42	0.47	0.53	0.68	1.46	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 loss of 0.3dB of connector loss.

Mechanical Specifications

Cable Assembly

Length* 24 in [609.6 mm]
Diameter 0.571 in [14.5 mm]

Cable

Cable TypeLMR-195Impedance50 OhmsInner Conductor TypeSolidInner Conductor Material and PlatingCopperDielectric TypePE (F)Number of Shields2

Shield Layer 1 Aluminum Tape
Shield Layer 2 Tinned Copper Braid

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Jacket Material

Jacket Diameter 0.195 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

Connector 1	Connector 2	
TNC Male Right Angle	TNC Female	
MIL-STD-348A	MIL-STD-348A	
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		
100 µin minimum		
	TNC Male Right Angle MIL-STD-348A 50 Ohms Brass, Gold 30 µin minimum PTFE Brass, Nickel 100 µin minimum Brass, Nickel	

PE, Black

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





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How to Order

Example: PE3W06109LF/HS-12 = 12 inches long cable PE3W06109LF/HS-100cm = 100 cm long cable

TNC Male Right Angle to TNC Female Cable 24 Inch Length Using LMR-195 Coax with HeatShrink, LF Solder 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: https://www.pasternack.com/tnc-male-tnc-female-lmr195-cable-assembly-pe3w06109lf-hs-24-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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PE3W06109LF/HS-24 CAD Drawing
TNC Male Right Angle to TNC Female Cable 24 Inch Length Using LMR-195 Coax with HeatShrink, LF Solder

