

Fire Rated Reverse Polarity TNC Jack Bulkhead to TNC Male  
Low Loss Cable Using LMR-195-FR Coax with HeatShrink

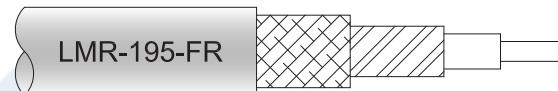


**RF Cable Assemblies Technical Data Sheet**

**PE3W09474/HS**

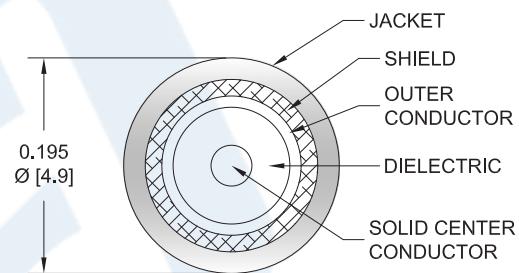
**Configuration**

- Connector 1: TNC Jack Reverse Polarity Bulkhead
- Connector 2: TNC Male
- Cable Type: LMR-195-FR



**Features**

- Max Frequency 3 GHz
- Shielding Effectivity > 90 dB
- 76% Phase Velocity
- Double Shielded
- FRPE Jacket



**Applications**

- General Purpose
- Laboratory Use

**Description**

Pasternack's PE3W09474/HS reverse polarity TNC jack bulkhead 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 reverse polarity TNC to TNC cable assembly has a jack to male gender configuration with 50 ohm flexible LMR-195-FR coax. The PE3W09474/HS reverse polarity TNC jack to TNC male 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: [Fire Rated Reverse Polarity TNC Jack Bulkhead to TNC Male Low Loss Cable Using LMR-195-FR Coax with HeatShrink PE3W09474/HS](#)



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### RF Cable Assemblies Technical Data Sheet

**PE3W09474/HS**

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	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]		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 (Typ.)	0.034	0.057	0.081	0.116	0.206	dB/ft
	0.11	0.19	0.27	0.38	0.68	dB/m

#### Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

#### Mechanical Specifications

##### Cable Assembly

Weight 0.101 lbs [45.81 g]

##### 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  
Jacket Material FRPE, Black  
Jacket Diameter 0.195 in [4.95 mm]

One Time Minimum Bend Radius 0.5 in [12.7 mm]

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### RF Cable Assemblies Technical Data Sheet

**PE3W09474/HS**

Repeated Minimum Bend Radius  
Bending Moment  
Flat Plate Crush  
Tensile Strength

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

Description	Connector 1	Connector 2
Type	TNC Jack Reverse Polarity Bulkhead	TNC Male
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	30 $\mu$ in minimum	30 $\mu$ in minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100 $\mu$ in minimum	100 $\mu$ in minimum
Coupling Nut Material and Plating		Brass, Nickel
Coupling Nut Plating Specification		100 $\mu$ in minimum

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

**PE3W09474/HS**

**How to Order**

Part Number Configuration:

**PE3W09474/HS - xx uu**

Unit of Measure:  
cm = Centimeters  
<blank> = Inches  
Length  
Base Number

Example: PE3W09474/HS-12 = 12 inches long cable  
PE3W09474/HS-100cm = 100 cm long cable

Fire Rated Reverse Polarity TNC Jack Bulkhead to TNC Male Low Loss Cable Using LMR-195-FR 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: <https://www.pasternack.com/fire-rated-reverse-polarity-tnc-jack-bulkhead-to-tnc-male-low-loss-cable-using-lmr-195-fr-with-heatshrink-pe3w09474-hs-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.

# PE3W09474/HS CAD Drawing

Fire Rated Reverse Polarity TNC Jack Bulkhead to TNC Male Low Loss Cable Using LMR-195-FR Coax with HeatShrink

