

## Reverse Polarity TNC Plug to TNC Male Low Loss Cable Using LMR-240 Coax with HeatShrink

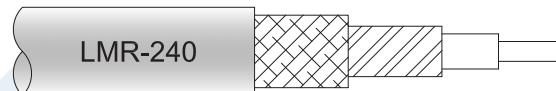


### RF Cable Assemblies Technical Data Sheet

**PE3W07195/HS**

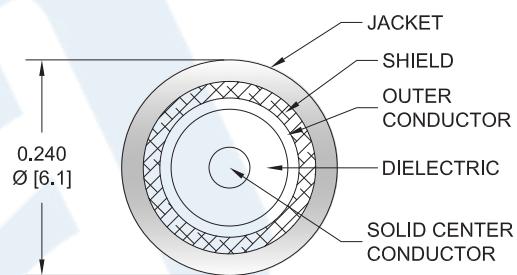
#### Configuration

- Connector 1: TNC Plug Reverse Polarity
- Connector 2: TNC Male
- Cable 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 PE3W07195/HS reverse polarity TNC plug to TNC male 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 reverse polarity TNC to TNC cable assembly has a plug to male gender configuration with 50 ohm flexible LMR-240 coax. The PE3W07195/HS reverse polarity TNC plug to TNC male 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: [Reverse Polarity TNC Plug to TNC Male Low Loss Cable Using LMR-240 Coax with Heat-Shrink PE3W07195/HS](#)



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#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		5.8	GHz
Velocity of Propagation		84		%
RF Shielding	90			dB
Group Delay		1.21 [3.97]		ns/ft [ns/m]
Capacitance		24.2 [79.4]		pF/ft [pF/m]
Inductance		0.06 [0.2]		uH/ft [uH/m]
DC Resistance Inner Conductor		3.2 [10.5]		Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor		3.89 [12.76]		Ω/1000ft [Ω/Km]
Jacket Spark			5,000	Vrms

#### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	5.8	GHz
Insertion Loss (Typ.)	0.039	0.055	0.079	0.129	0.204	dB/ft
	0.13	0.18	0.26	0.42	0.67	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 0.098 lbs [44.45 g]

##### Cable

Cable Type LMR-240  
 Impedance 50 Ohms  
 Inner Conductor Type Solid  
 Inner Conductor Material and Plating Copper  
 Dielectric Type PE (F)  
 Number of Shields 2  
 Shield Layer 1 Aluminum Tape  
 Shield Layer 2 Tinned Copper Braid  
 Jacket Material PE, Black  
 Jacket Diameter 0.24 in [6.1 mm]

One Time Minimum Bend Radius 0.75 in [19.05 mm]  
 Repeated Minimum Bend Radius 2.5 in [63.5 mm]

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**PE3W07195/HS**

Bending Moment  
Flat Plate Crush  
Tensile Strength

0.25 lbs-ft [0.34 N-m]  
20 lbs/in [0.36 Kg/mm]  
80 lbs [36.29 Kg]

#### Connectors

Description	Connector 1	Connector 2
Type	TNC Plug Reverse Polarity	TNC Male
Impedance	50 Ohms	50 Ohms
Mating Cycles	500	
Contact Material and Plating	Phosphor Bronze, Gold	Brass, Gold
Dielectric Type	PTFE	POM
Body Material and Plating	Brass, Nickel	Brass, Nickel
Coupling Nut Material and Plating	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:

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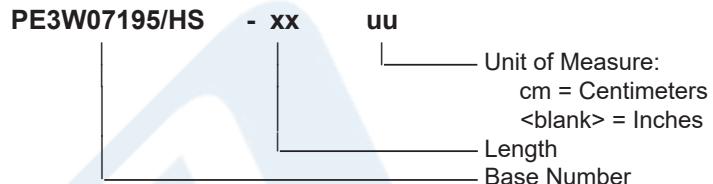


### RF Cable Assemblies Technical Data Sheet

**PE3W07195/HS**

#### How to Order

Part Number Configuration:



Example: PE3W07195/HS-12 = 12 inches long cable  
PE3W07195/HS-100cm = 100 cm long cable

Reverse Polarity TNC Plug to TNC Male Low Loss Cable 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: <https://www.pasternack.com/reverse-polarity-tnc-plug-to-tnc-male-low-loss-cable-using-lmr-240-with-heatshrink-pe3w07195-hs-p.aspx>

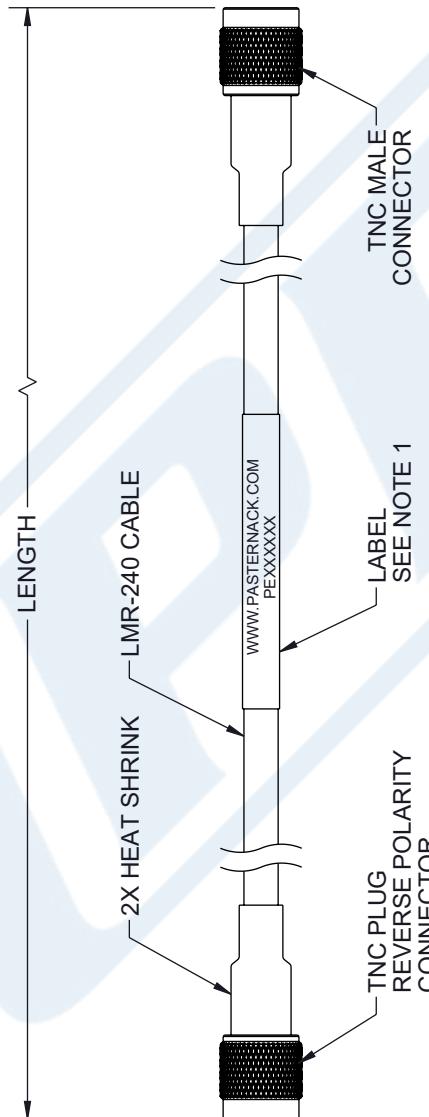
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PE3W07195/HS CAD Drawing

## Reverse Polarity TNC Plug to TNC Male Low Loss Cable

## Using LMR-240 Coax with HeatShrink

REVISION		DESCRIPTION	DATE	CHANGED BY	APPROVED BY
ZONE	REV.	INITIAL RELEASE	01/03/2023	HBKKE	AGANWANI



NOTES:  
1. CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.  
CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY

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 <b>PASTERNACK®</b> an INFINITE® brand	 		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SHEET SCALE NONE 1 OF 1	
	FRACTIONS 1/2 [5.1]      ± 1/32 2 [5.1]      ± 0.125 3/4 [5.7]      ± 1/32 5/8 [5.13]      ± 1°		Website: <a href="http://www.Pasternack.com">www.Pasternack.com</a> Phone: 1.866.727.8376   1.949.261.1920	
OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS NSIN IN ARE INCHES	LENGTH TOLERANCES: $>12 [305] = +1 [25] / -0$ $>60 [1524] = +2 [51] / -0$ $>1 [25] = +2 [51] / -0$ $>120 [3048] = +4 [102] / -0$ $>300 [7620] = +5% / -0$		DESCRIPTION Reverse Polarity TNC Plug to TNC Male Low Loss Cable Using LMR- 240 Coax with HeatShrink	
TOLERANCES:			ITEM NO. <b>PE3W07195/HS</b>	REV <b>A</b>
SIZE <b>A</b>	CAGE CODE <b>53919</b>	DRAWN BY <b>HB/AKKE</b>		