

N Male to Reverse Polarity TNC Plug Low Loss Cable
Using LMR-240 Coax with HeatShrink, LF Solder



RF Cable Assemblies Technical Data Sheet

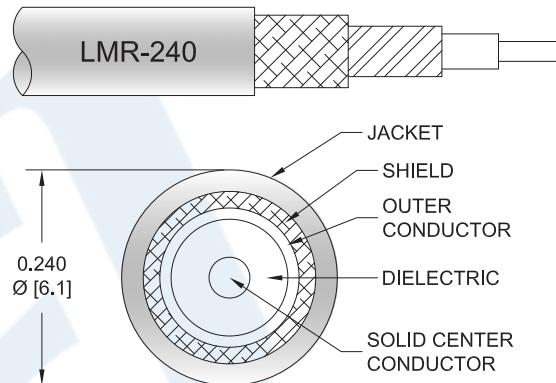
PE3C3547LF/HS

Configuration

- Connector 1: N Male
- Connector 2: TNC Plug Reverse Polarity
- 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 PE3C3547LF/HS type N male to reverse polarity TNC plug 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 type N to reverse polarity TNC cable assembly has a male to plug gender configuration with 50 ohm flexible LMR-240 coax. The PE3C3547LF/HS type N male to reverse polarity TNC plug 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: [N Male to Reverse Polarity TNC Plug Low Loss Cable Using LMR-240 Coax with HeatShrink, LF Solder PE3C3547LF/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 0.134 lbs [60.78 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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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	N Male	TNC Plug Reverse Polarity
Specification	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms
Mating Cycles		500
Contact Material and Plating	Brass, Gold	Phosphor Bronze, Gold
Contact Plating Specification	30 μ in minimum	
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100 μ in minimum	
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel
Coupling Nut Plating Specification	100 μ 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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PE3C3547LF/HS

How to Order

Part Number Configuration:

PE3C3547LF/HS - xx

uu

Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3C3547LF/HS-12 = 12 inches long cable
PE3C3547LF/HS-100cm = 100 cm long cable

N Male to Reverse Polarity TNC Plug Low Loss Cable Using LMR-240 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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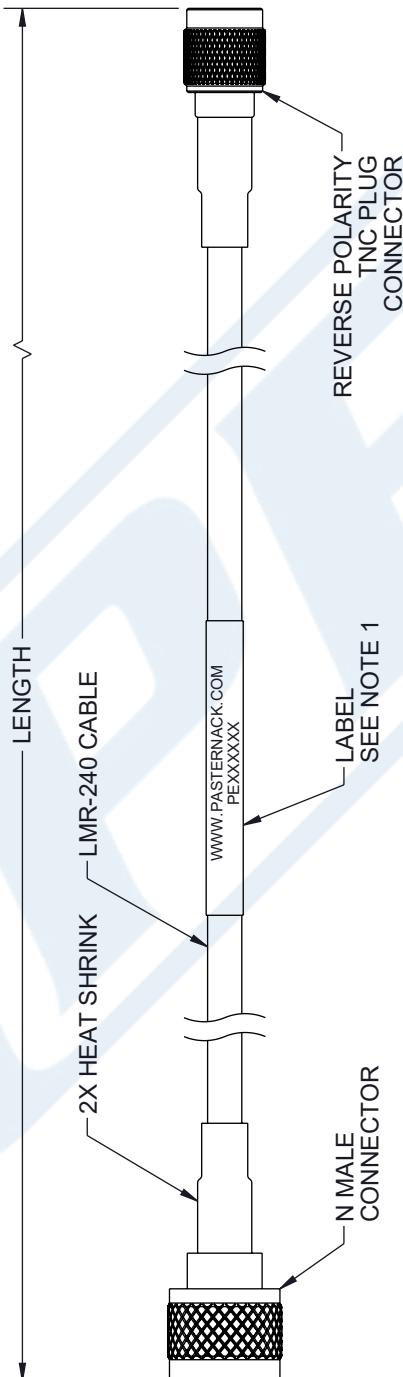
URL: <https://www.pasternack.com/n-male-to-reverse-polarity-tnc-plug-low-loss-cable-using-lmr-240-with-heatshrink-lf-solder-pe3c3547lf-hs-p.aspx>

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PE3C3547LF/HS CAD Drawing

N Male to Reverse Polarity TNC Plug Low Loss Cable Using LMR-240 Coax with HeatShrink, LF Solder

ZONE	REV.	DESCRIPTION	DATE	CHANGED BY	APPROVED BY
	A	INITIAL RELEASE	01/03/2023	HBAKKE	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.
- 2.

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UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS		5 132 13 132		FRACTIONS ± ± ±	
$X = \pm 2$ $XX = \pm 0.2$ $XXX = \pm 0.005$		$[5]$ $[.13]$ $[.13]$		$\pm 1/32$ $\pm 1/16$ $\pm 1/32$	
CABLE LENGTH TOLERANCES:		$\pm 1^\circ$		ANGLE TOLERANCES: $\pm 1^\circ$	
		Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920		DESCRIPTION N Male to Reverse Polarity TNC Plug Low Loss Cable Using LMR-240 Coax with HeatShrink, LF Solder	
				ITEM NO. PE3C3547LF/HS	
				DRAWN BY HBAKKE	
				CAGE CODE 53919	
				SIZE A	
				REV A	
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