

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



PE3W00732LF/HS

Configuration

- Connector 1: TNC Plug Reverse Polarity
- Connector 2: SMA Male
- Cable Type: LMR-240
- Coax Flex Type: Flexible

Features

- Max Frequency 8 GHz
- Shielding Effectivity > 90 dB
- 84% Phase Velocity
- Double Shielded
- PE Jacket
- 500 Mating Cycles



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W00732LF/HS reverse polarity TNC plug to SMA 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 SMA cable assembly has a plug to male gender configuration with 50 ohm flexible LMR-240 coax. The PE3W00732LF/HS reverse polarity TNC plug to SMA male cable assembly operates to 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.

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-------------------------------|---------|--------------|---------|-----------------------|
| Frequency Range | DC | | 8 | GHz |
| VSWR | | | 1.4:1 | |
| 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] | | Ohms/1000ft [Ohms/Km] |
| DC Resistance Outer Conductor | | 3.89 [12.76] | | Ohms/1000ft [Ohms/Km] |

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Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|--------------|---------|---------|---------|-------|
| Jacket Spark | | | 5,000 | Vrms |

Specifications by Frequency

| Part Number | Length | Description | F1 | F2 | F3 | F4 | F5 | Units | Weight (lbs) |
|-------------------|--------------------------|-----------------------|-----------|-------|-------|-------|-------|-------|--------------|
| | | | Frequency | | | | | MHz | |
| PE3W00732LF/HS | Custom Lengths Available | Insertion Loss (Typ.) | 0.039 | 0.056 | 0.076 | 0.129 | 0.204 | dB/ft | |
| | | | 0.13 | 0.19 | 0.25 | 0.43 | 0.67 | dB/m | |
| PE3W00732LF/HS-12 | 12 inch | Insertion Loss (Typ.) | 0.24 | 0.26 | 0.28 | 0.33 | 0.41 | dB | 0.08 |
| PE3W00732LF/HS-24 | 24 inch | Insertion Loss (Typ.) | 0.28 | 0.32 | 0.36 | 0.46 | 0.61 | dB | 0.113 |
| PE3W00732LF/HS-36 | 36 inch | Insertion Loss (Typ.) | 0.32 | 0.37 | 0.43 | 0.59 | 0.82 | dB | 0.146 |
| PE3W00732LF/HS-48 | 48 inch | Insertion Loss (Typ.) | 0.36 | 0.43 | 0.51 | 0.72 | 1.02 | dB | 0.179 |
| PE3W00732LF/HS-60 | 60 inch | Insertion Loss (Typ.) | 0.4 | 0.48 | 0.58 | 0.85 | 1.22 | dB | 0.212 |

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: | 0.1 dB |
| Loss due to Connector 2: | 0.1 dB |
| Base Weight: | 0.08 pounds |
| Additional Weight per Inch: | 0.00275 pounds |

Mechanical Specifications

Cable Assembly

| | |
|----------------|--------------------|
| Width/Diameter | 0.5 in [12.7 mm] |
| Weight | 0.08 lbs [36.29 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] |
| Bending Moment | 0.25 lbs-ft [0.34 N-m] |
| Flat Plate Crush | 20 lbs/in [0.36 Kg/mm] |
| Tensile Strength | 80 lbs [36.29 Kg] |

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Connectors

| Description | Connector 1 | Connector 2 |
|-----------------------------------|---------------------------|------------------|
| Type | TNC Plug Reverse Polarity | SMA Male |
| Impedance | 50 Ohms | 50 Ohms |
| Configuration | Straight | Straight |
| Mating Cycles | 500 | 500 |
| Contact Material and Plating | Phosphor Bronze, Gold | Brass, Gold |
| Dielectric Type | PTFE | PTFE |
| Body Material and Plating | Brass, Nickel | Brass, Gold |
| Coupling Nut Material and Plating | Brass, Nickel | Brass, Gold |
| Hex Size | | 5/16 inch |
| Torque | | 3 in-lbs 0.34 Nm |

Environmental Specifications

Operating Range Temperature -40 to +85 deg C

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

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



PE3W00732LF/HS

Typical Performance Data

How to Order

Part Number Configuration:

PE3W00732LF/HS - xx uu



Example: PE3W00732LF/HS-12 = 12 inches long cable
PE3W00732LF/HS-100cm = 100 cm long cable

Reverse Polarity TNC Plug to SMA Male 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.

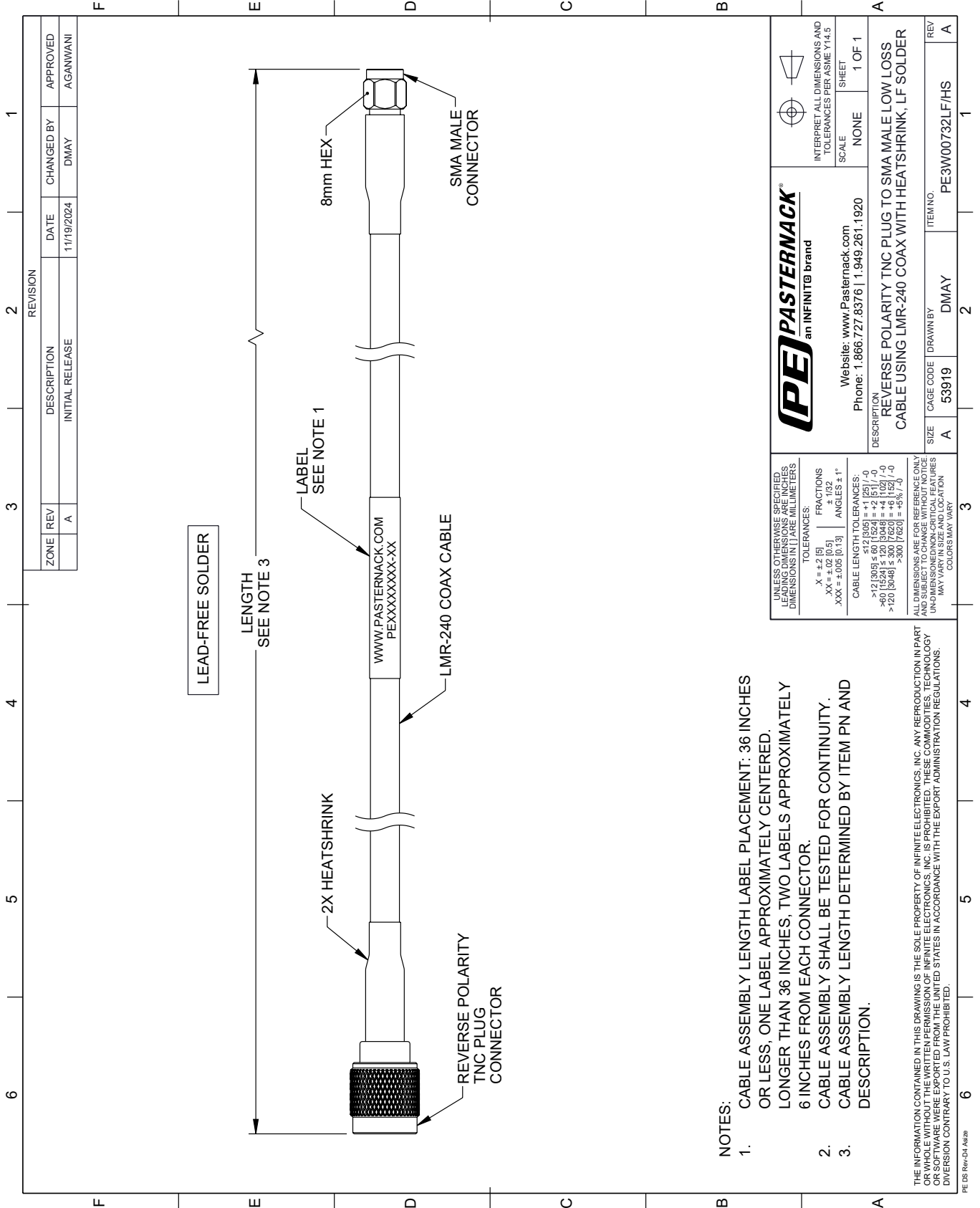
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Reverse Polarity TNC Plug to SMA Male Low Loss Cable Using LMR-240 Coax with HeatShrink, LF Solder PE3W00732LF/HS](#)

URL: <https://www.pasternack.com/reverse-polarity-tnc-plug-to-sma-male-low-loss-cable-using-lmr-240-with-heatshrink-lf-solder-pe3w00732lf-hs-p.aspx>

The information contained within 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 Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PE3W00732LF/HS CAD Drawing

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



| REVISION | | DATE | CHANGED BY | APPROVED |
|-----------------|-----|------------|------------|----------|
| ZONE | REV | | | |
| | A | 11/19/2024 | DMAY | AGANWANI |
| DESCRIPTION | | | | |
| INITIAL RELEASE | | | | |

| | | |
|---|------------------|--|
| Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920 | | INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 |
| | | SCALE: NONE SHEET: 1 OF 1 |
| DESCRIPTION REVERSE POLARITY TNC PLUG TO SMA MALE LOW LOSS CABLE USING LMR-240 COAX WITH HEATSHRINK, LF SOLDER | | |
| SIZE: A | CAGE CODE: 53919 | ITEM NO.: PE3W00732LF/HS |

UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES AND TRAILING DIMENSIONS ARE IN MILLIMETERS.

TOLERANCES:
 .X = ±.2 (5)
 .XX = ±.02 (0.5)
 .XXX = ±.005 (0.13)

FRACTIONS: ± 1/32
 ANGLES ± 1°

CABLE LENGTH TOLERANCES:
 <12 (305) ≤ 60 (1524) = ±.125 (3.175) / -0
 >60 (1524) ≤ 120 (3048) = ±.102 (2.591) / -0
 >120 (3048) ≤ 300 (7620) = ±.083 (2.108) / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY. DIMENSIONS OF PARTS MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

- NOTES:
- 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 ASSEMBLY SHALL BE TESTED FOR CONTINUITY.
 - CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.

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