



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

### TECHNICAL DATA SHEET

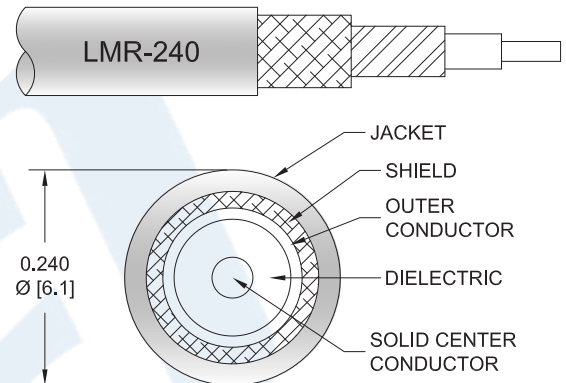
**PE3W00732**

#### Configuration

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

#### Features

- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 84% Phase Velocity
- Double Shielded
- PE Jacket
- 500 Mating Cycles



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W00732 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 PE3W00732 reverse polarity TNC plug to SMA 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 SMA Male Low Loss Cable Using LMR-240 Coax PE3W00732](#)



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PE3W00732

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		5.8	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]		$\Omega$ /1000ft [ $\Omega$ /Km]
DC Resistance Outer Conductor		3.89 [12.76]		$\Omega$ /1000ft [ $\Omega$ /Km]
Jacket Spark			5,000	Vrms

#### Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	250	500	1000	2500	5800	MHz	
PE3W00732	Custom Lengths Available	Insertion Loss (Typ.)	0.04	0.06	0.08	0.12	0.2	dB/ft	
			0.14	0.2	0.27	0.4	0.66	dB/m	
PE3W00732-12	12 inch	Insertion Loss (Typ.)	0.24	0.26	0.28	0.32	0.4	dB	0.054
PE3W00732-24	24 inch	Insertion Loss (Typ.)	0.28	0.32	0.36	0.44	0.6	dB	0.077
PE3W00732-36	36 inch	Insertion Loss (Typ.)	0.32	0.38	0.44	0.56	0.8	dB	0.099
PE3W00732-48	48 inch	Insertion Loss (Typ.)	0.36	0.44	0.52	0.68	1	dB	0.121
PE3W00732-60	60 inch	Insertion Loss (Typ.)	0.4	0.5	0.6	0.8	1.2	dB	0.143

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:	0.054 pounds
Additional Weight per Inch:	0.00184 pounds

#### Mechanical Specifications

##### Cable Assembly

Weight 0.08 lbs [36.29 g]

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**PE3W00732****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]

**Connectors**

Description	Connector 1	Connector 2
Type	TNC Plug Reverse Polarity Threaded	SMA Male Threaded
Impedance	50 Ohms	50 Ohms
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		16-May inch
Torque		3 in-lbs [0.34 Nm]

**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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**PE3W00732**

#### How to Order

Part Number Configuration:

**PE3W00732**

- **xx**

**uu**

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

Example: PE3W00732-12 = 12 inches long cable  
PE3W00732-100cm = 100 cm long cable

Reverse Polarity TNC Plug to SMA Male Low Loss Cable Using LMR-240 Coax 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 PE3W00732](https://www.pasternack.com/reverse-polarity-tnc-plug-to-sma-male-low-loss-cable-using-lmr-240-pe3w00732-p.aspx)

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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.

