



## N Male to TNC Male Right Angle Low Loss Cable Using LMR-240 Coax

### TECHNICAL DATA SHEET

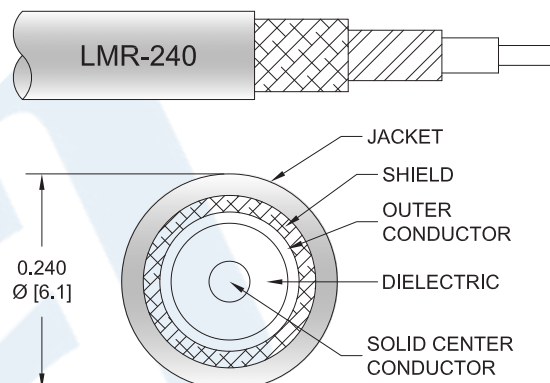
**PE3C2885**

#### Configuration

- Connector 1: N Male
- Connector 2: TNC Male Right Angle
- 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



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3C2885 type N male to TNC male right angle 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 TNC cable assembly has a male to male gender configuration with 50 ohm flexible LMR-240 coax. The PE3C2885 type N male to TNC male cable assembly operates to 5.8 GHz. The right angle TNC interface on the LMR-240 cable allows for easier connections in tight spaces. 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 TNC Male Right Angle Low Loss Cable Using LMR-240 Coax PE3C2885](#)



## N Male to TNC Male Right Angle Low Loss Cable Using LMR-240 Coax

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**PE3C2885**

#### 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]		Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor		3.89 [12.76]		Ω/1000ft [Ω/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	
PE3C2885	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	
PE3C2885-12	12 inch	Insertion Loss (Typ.)	0.19	0.23	0.28	0.38	0.54	dB	0.07
PE3C2885-24	24 inch	Insertion Loss (Typ.)	0.23	0.29	0.36	0.5	0.74	dB	0.093
PE3C2885-36	36 inch	Insertion Loss (Typ.)	0.27	0.35	0.44	0.62	0.94	dB	0.115
PE3C2885-48	48 inch	Insertion Loss (Typ.)	0.31	0.41	0.52	0.74	1.14	dB	0.137
PE3C2885-60	60 inch	Insertion Loss (Typ.)	0.35	0.47	0.6	0.86	1.34	dB	0.159

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\*SQRT(FGHz) dB  
 Loss due to Connector 2: 0.2 dB  
 Base Weight: 0.07 pounds  
 Additional Weight per Inch: 0.00184 pounds

#### Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB for the straight connector and 0.2 dB for the right angle connector.

#### Mechanical Specifications

##### Cable Assembly

Weight 0.172 lbs [78.02 g]

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N Male to TNC Male Right Angle Low Loss  
Cable Using LMR-240 Coax

**TECHNICAL DATA SHEET**

**PE3C2885**

**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	N Male Threaded	TNC Male Right Angle Threaded
Specification	MIL-STD-348	
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Brass, Gold
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Nickel
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Nickel

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

**Plotted and Other Data**

Notes:

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 TNC Male Right Angle Low Loss Cable Using LMR-240 Coax PE3C2885](#)



N Male to TNC Male Right Angle Low Loss  
Cable Using LMR-240 Coax

**TECHNICAL DATA SHEET**

**PE3C2885**

**How to Order**

Part Number Configuration:

**PE3C2885**

- **xx**

**uu**

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

Example: PE3C2885-12 = 12 inches long cable  
PE3C2885-100cm = 100 cm long cable

N Male to TNC Male Right Angle 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.

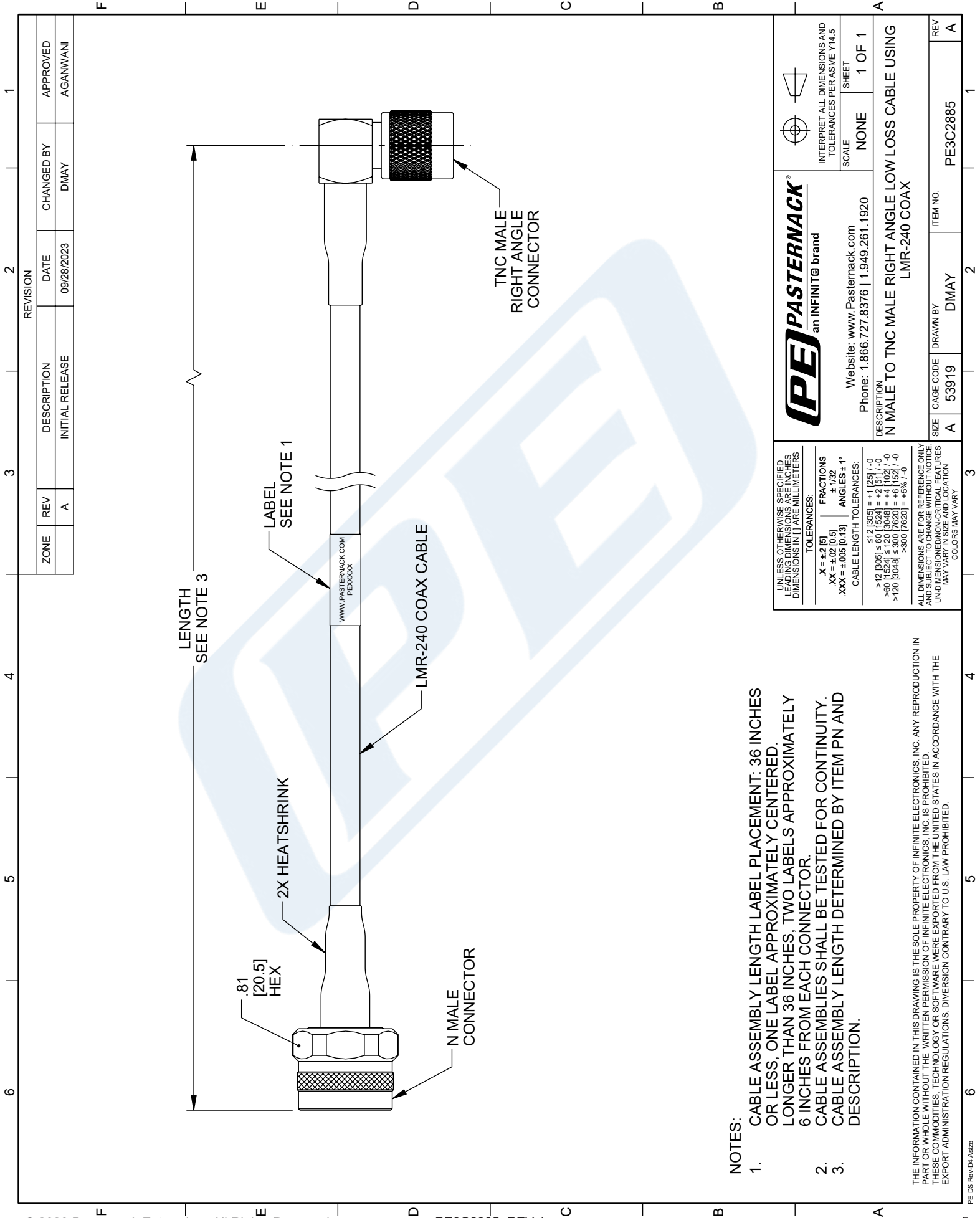
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URL: <https://www.pasternack.com/n-male-to-tnc-male-low-loss-cable-using-lmr-240-pe3c2885-p.aspx>

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.

# PE3C2885 CAD Drawing

N Male to TNC Male Right Angle Low Loss Cable Using LMR-240 Coax



## 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.
2. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
3. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.

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UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE INCHES. DIMENSIONS IN [ ] ARE MILLIMETERS.	
TOLERANCES:	FRACTIONS
.X = ±.2 [5]	±.132
.XX = ±.02 [0.5]	±.02
.XXX = ±.005 [0.13]	±.005
CABLE LENGTH TOLERANCES:	
<12 [305]	±.1 [5]
>12 [305] ≤ 60 [1524]	±.2 [5]
>60 [1524] ≤ 120 [3048]	±.4 [10]
>120 [3048] ≤ 300 [7620]	±.6 [15]
>300 [7620]	±.8 [20]

ALL DIMENSIONS ARE FOR REFERENCE ONLY. ALL DIMENSIONS SHALL BE TO UNLESS OTHERWISE SPECIFIED. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE INCHES. DIMENSIONS IN [ ] ARE MILLIMETERS. DIMENSIONS MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

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Website: <a href="http://www.Pasternack.com">www.Pasternack.com</a>	Phone: 1.866.727.8376   1.949.261.1920
DESCRIPTION <b>N MALE TO TNC MALE RIGHT ANGLE LOW LOSS CABLE USING LMR-240 COAX</b>	
SIZE <b>A</b>	CAGE CODE <b>53919</b>
ITEM NO. <b>PE3C2885</b>	REV <b>A</b>

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5	
SCALE <b>NONE</b>	SHEET <b>1 OF 1</b>

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[PE3C2885-36](#)