



**TNC Male Right Angle to N Male Right Angle Cable
100 cm Length Using LMR-240 Coax with HeatShrink**

RF Cable Assemblies Technical Data Sheet

PE3W00815/HS-100CM

Configuration

- Connector 1: TNC Male Right Angle
- Connector 2: N Male Right Angle
- Cable Type: LMR-240

Features

- Max Frequency 3 GHz
- Shielding Effectivity > 90 dB
- 84% Phase Velocity
- Double Shielded
- PE Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W00815/HS-100CM TNC male right angle to type N male right angle 100 cm 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 TNC to type N cable assembly has a male to male gender configuration with 50 ohm flexible LMR-240 coax. The PE3W00815/HS-100CM TNC male to type N male cable assembly operates to 3 GHz. The right angle TNC and right angle type N interfaces on the LMR-240 cable allow 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: [TNC Male Right Angle to N Male Right Angle Cable 100 cm Length Using LMR-240 Coax with HeatShrink PE3W00815/HS-100CM](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
VSWR			1.5:1	
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 Km]		3.2 [10.5]		Ohms/1000ft [Ohms/
DC Resistance Outer Conductor Km]		3.89 [12.76]		Ohms/1000ft [Ohms/
Jacket Spark			5,000	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	3	GHz
Insertion Loss (Max.)	0.527	0.58	0.659	0.823	0.842	dB

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax use in this assembly. The Insertion Loss includes an estimated insertion loss of 0.4dB of connector Loss

Mechanical Specifications

Cable Assembly

Length*	39.37 in [100 cm]
Diameter	0.83 in [21.08 mm]

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

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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 Male Right Angle	N Male Right Angle
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Brass, Gold
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Tri-Metal
Coupling Nut Material and Plating	Brass, Nickel	

Mechanical Specification Notes:

*All cable assemblies have a length tolerance of 1.5% or $\pm 3/8"$, whichever is greater.

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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How to Order

Part Number Configuration:

PE3W00815/HS

- xx

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

Example: PE3W00815/HS-12 = 12 inches long cable
PE3W00815/HS-100cm = 100 cm long cable

TNC Male Right Angle to N Male Right Angle Cable 100 cm Length 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [TNC Male Right Angle to N Male Right Angle Cable 100 cm Length Using LMR-240 Coax with HeatShrink PE3W00815/HS-100CM](https://www.pasternack.com/tnc-male-n-male-lmr240-cable-assembly-pe3w00815-hs-100cm-p.aspx)

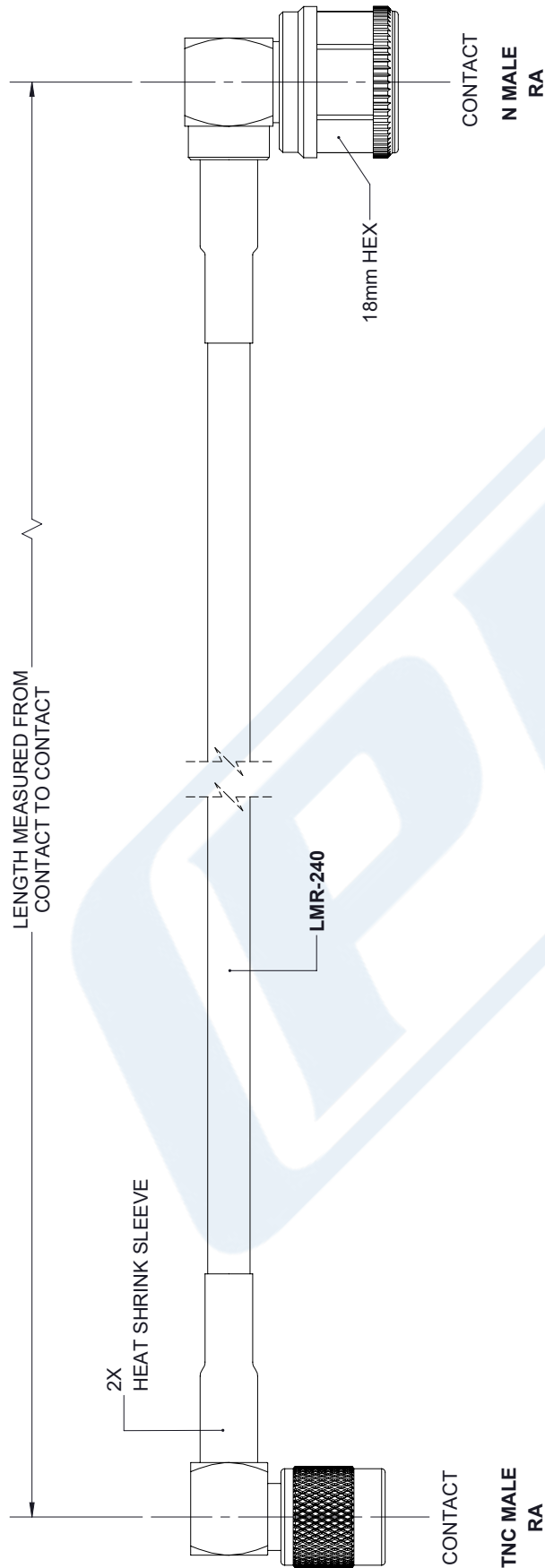
URL: <https://www.pasternack.com/tnc-male-n-male-lmr240-cable-assembly-pe3w00815-hs-100cm-p.aspx>

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PE3W00815/HS-100CM CAD Drawing

TNC Male Right Angle to N Male Right Angle Cable 100 cm
Length Using LMR-240 Coax with HeatShrink

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	04/30/19	SELLIS



UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS	
TOLERANCES:	FRACTIONS
X±.2 [5.08]	±.132
.XX±.01 [.25]	±.005
.XXX±.005 [.13]	±.001
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.	
THIRD-ANGLE PROJECTION	

PE PASTERNAK an INFINITO brand	
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SIZE	A
CAGE	53919
DRAWN BY	K.DANG
PART NUMBER	PE3W00815/HS
REV	A

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SHEET	1 OF 1
SCALE	N/A

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