

## TNC Male Right Angle to N Male Cable Using 53 Ohm RG55 Coax



### PE3W16640

#### Configuration

- Connector 1: TNC Male Right Angle
- Connector 2: N Male
- Cable Type: RG55
- Coax Flex Type: Flexible

#### Features

- Max Frequency 3 GHz
- 66% Phase Velocity
- Double Shielded
- PE Jacket

#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W16640 TNC male right angle to type N male cable using 53 ohm RG55 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 53 ohm flexible RG55 coax. The PE3W16640 TNC male to type N male cable assembly operates to 3 GHz. The right angle TNC interface on the RG55 cable allows for easier connections in tight spaces. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness.

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		3	GHz
VSWR			1.4:1	
Velocity of Propagation		66		%
Capacitance		28.8 [94.49]		pF/ft [pF/m]

#### Specifications by Frequency

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**PE3W16640**

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency		100	250	500	1000	
PE3W16640	Custom Lengths Available	Insertion Loss (Typ.)	0.04	0.06	0.07	0.165	0.32	dB/ft	
			0.15	0.21	0.24	0.55	1.05	dB/m	
PE3W16640-6	6 inch	Insertion Loss (Typ.)	0.33	0.34	0.34	0.39	0.46	dB	0.145
PE3W16640-12	12 inch	Insertion Loss (Typ.)	0.35	0.37	0.38	0.47	0.62	dB	0.16
PE3W16640-18	18 inch	Insertion Loss (Typ.)	0.37	0.4	0.41	0.55	0.78	dB	0.175
PE3W16640-24	24 inch	Insertion Loss (Typ.)	0.39	0.43	0.45	0.63	0.94	dB	0.19
PE3W16640-36	36 inch	Insertion Loss (Typ.)	0.43	0.49	0.52	0.8	1.26	dB	0.22

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:	0.2 dB
Loss due to Connector 2:	0.1 dB
Base Weight:	0.16 pounds
Additional Weight per Inch:	0.0025 pounds

**Mechanical Specifications**

**Cable Assembly**

Width/Diameter	0.5 in [12.7 mm]
Weight	0.16 lbs [72.57 g]

**Cable**

Cable Type	RG55
Impedance	53 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	PE
Number of Shields	2
Shield Layer 1	Tinned Copper Braid
Shield Layer 2	Tinned Copper Braid
Jacket Material	PE, Black
Jacket Diameter	0.202 in [5.13 mm]

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**Connectors**

Description	Connector 1	Connector 2
Type	TNC Male Right Angle	N Male
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Straight
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	30 µin minimum	30 µin
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Tri-Metal
Body Plating Specification	100 µin minimum	
Coupling Nut Material and Plating	Brass, Nickel	Brass, Tri-Metal
Coupling Nut Plating Specification	100 µin minimum	
Hex Size		18 mm
Torque		9 in-lbs 1.02 Nm

**Environmental Specifications**

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

**Plotted and Other Data**

Notes:

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**PE3W16640**

**Typical Performance Data**

**How to Order**

Part Number Configuration:

**PE3W16640**

**- xx**

**uu**

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

Example: PE3W16640-12 = 12 inches long cable  
PE3W16640-100cm = 100 cm long cable

TNC Male Right Angle to N Male Cable Using 53 Ohm RG55 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.

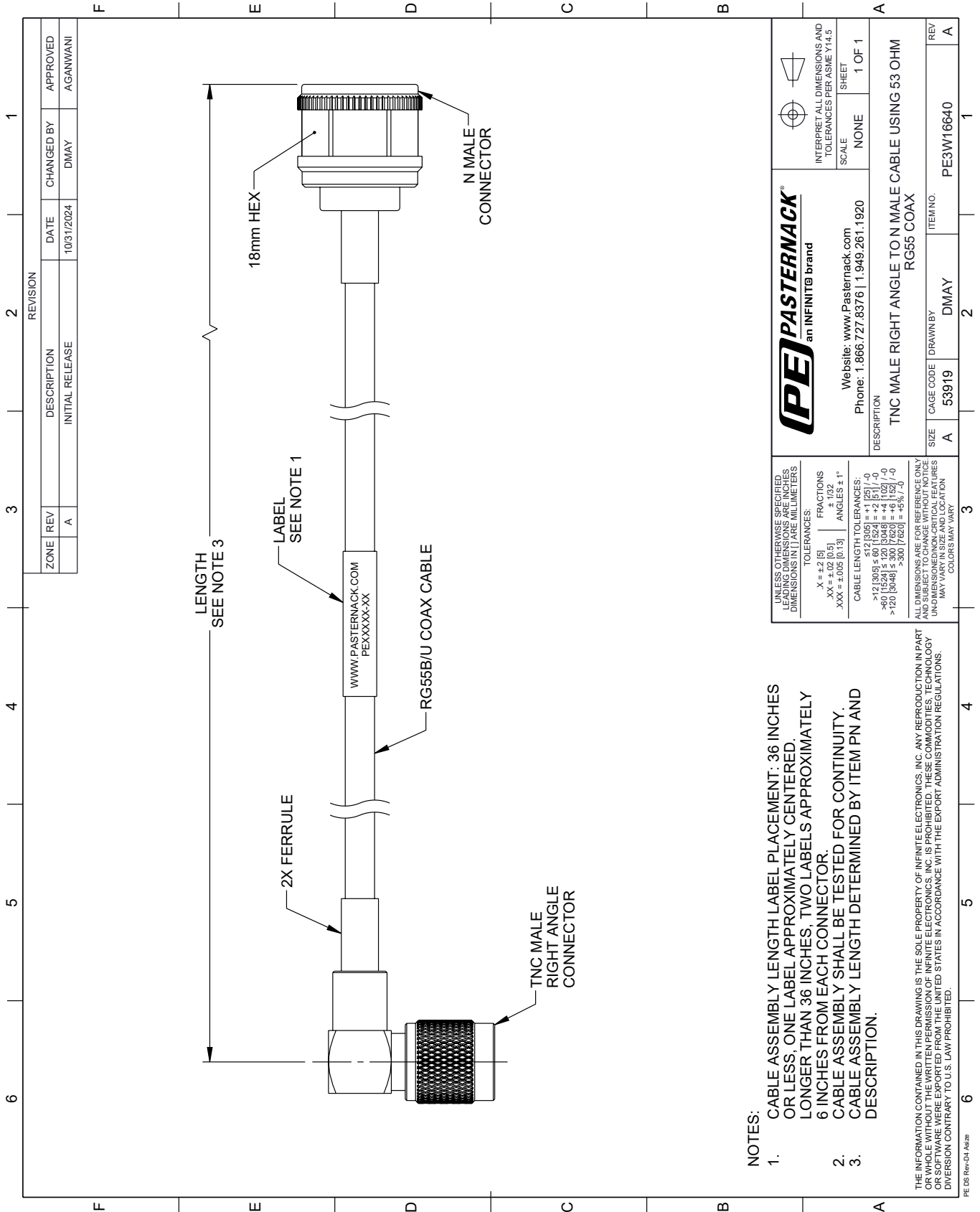
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [TNC Male Right Angle to N Male Cable Using 53 Ohm RG55 Coax PE3W16640](#)

URL: <https://www.pasternack.com/tnc-male-right-angle-to-n-male-cable-using-rg55-pe3w16640-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.

# PE3W16640 CAD Drawing

TNC Male Right Angle to N Male Cable Using 53 Ohm RG55 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 ASSEMBLY SHALL BE TESTED FOR CONTINUITY.
3. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.

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PE DS Rev-D4 Add2

<b>PASTERNAK</b> an INFINITI® brand		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE: NONE SHEET: 1 OF 1
Website: <a href="http://www.Pasternack.com">www.Pasternack.com</a> Phone: 1.866.727.8376   1.949.261.1920		
DESCRIPTION: TNC MALE RIGHT ANGLE TO N MALE CABLE USING 53 OHM RG55 COAX		
SIZE: A	CAGE CODE: 53919	DRAWN BY: DMAY
ITEM NO.: PE3W16640		REV: A

UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES AND DIMENSIONS IN [ ] 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 [-0 / +0]  
 >60 [1524] ≤ 120 [3048] = ±.102 [-0 / +0]  
 >120 [3048] ≤ 300 [7620] = ±.078 [-0 / +0]

ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE NON-CRITICAL FEATURES. DIMENSIONS IN SIZE AND LOCATION MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.