



## TNC Male Right Angle to SMA Male Cable Using RG174 Coax

### RF Cable Assemblies Technical Data Sheet

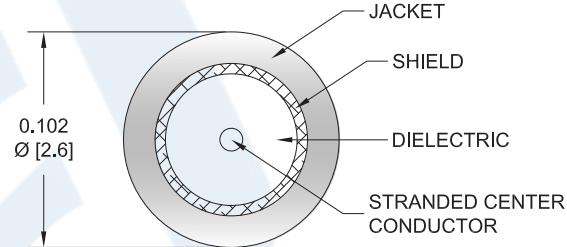
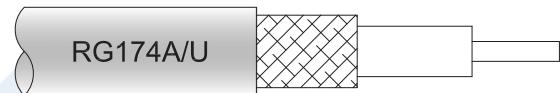
**PE3W07224**

#### Configuration

- Connector 1: TNC Male Right Angle
- Connector 2: SMA Male
- Cable Type: RG174

#### Features

- Max Frequency 1 GHz
- 66% Phase Velocity
- PVC Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W07224 TNC male right angle to SMA male cable using RG174 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 SMA cable assembly has a male to male gender configuration with 50 ohm flexible RG174 coax. The PE3W07224 TNC male to SMA male cable assembly operates to 1 GHz. The right angle TNC interface on the RG174 cable allows for easier connections in tight spaces.

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 SMA Male Cable Using RG174 Coax PE3W07224](#)



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**PE3W07224**

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		1,000	MHz
VSWR			1.4:1	
Velocity of Propagation		66		%
Capacitance		31.08 [101.97]		pF/ft [pF/m]

#### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	100	250	500	1,000		MHz
Insertion Loss (Typ.)	0.084	0.137	0.211	0.32		dB/ft
	0.28	0.45	0.69	1.05		dB/m

#### Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB for the SMA male connector and 0.2 dB for the TNC male connector.

#### Mechanical Specifications

##### Cable Assembly

Weight 0.067 lbs [30.39 g]

##### Cable

Cable Type	RG174
Impedance	50 Ohms
Inner Conductor Type	Stranded
Inner Conductor Material and Plating	Copper Clad Steel
Dielectric Type	PE
Number of Shields	1
Shield Layer 1	Tinned Copper Braid
Jacket Material	PVC, Black
Jacket Diameter	0.11 in [2.79 mm]

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## TNC Male Right Angle to SMA Male Cable Using RG174 Coax

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PE3W07224

#### Connectors

Description	Connector 1	Connector 2
Type	TNC Male Right Angle	SMA Male
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Brass, Gold
Dielectric Type	POM	Teflon
Body Material and Plating	Brass, Nickel	Stainless Steel
Coupling Nut Material and Plating		Stainless Steel

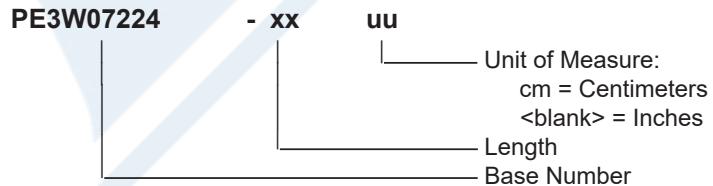
**Compliance Certifications** (see [product page](#) for current document)

#### Plotted and Other Data

Notes:

#### How to Order

Part Number Configuration:



Example: PE3W07224-12 = 12 inches long cable  
PE3W07224-100cm = 100 cm long cable

TNC Male Right Angle to SMA Male Cable Using RG174 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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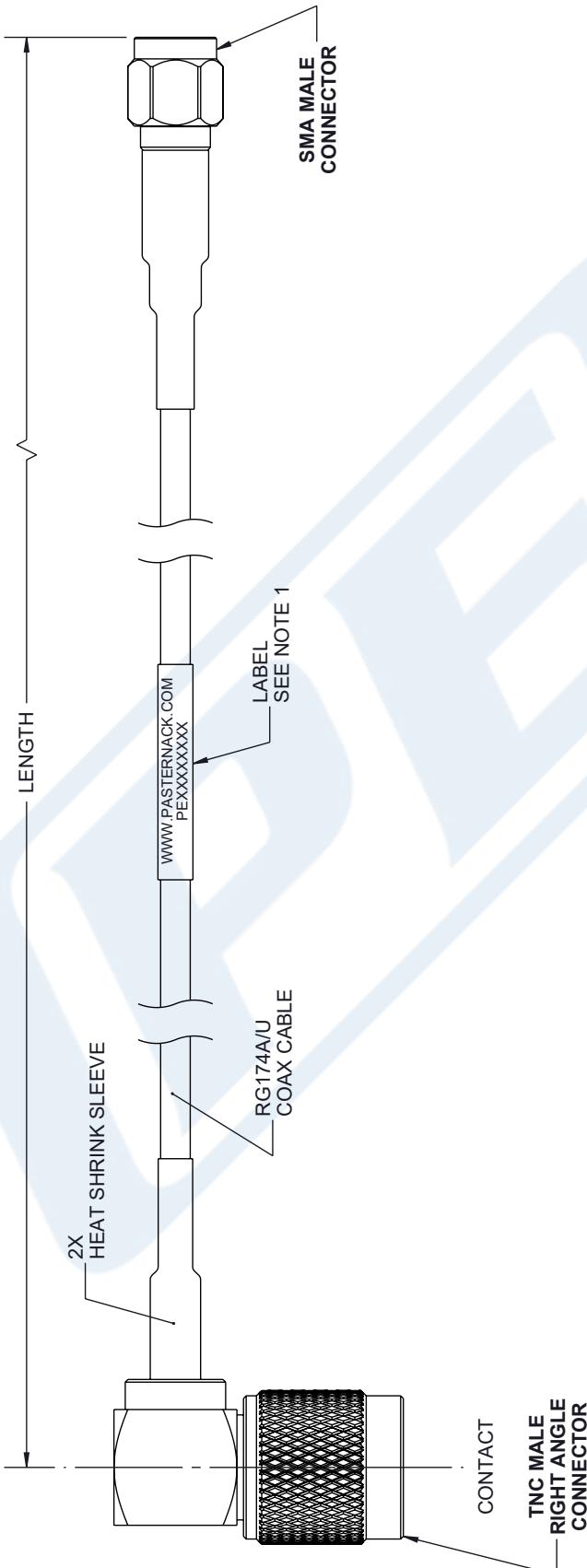
URL: <https://www.pasternack.com/tnc-male-right-angle-to-sma-male-cable-using-rg174-pe3w07224-p.aspx>

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.

PE3W07224 CAD Drawing

## TNC Male Right Angle to SMA Male Cable Using RG174 Coax

ZONE	REV.	DESCRIPTION	DATE	CHANGED BY	APPROVED BY
	A	INITIAL RELEASE	02/01/2023	KDANG	AGAN/ANI



## NOTES:

1. CABLE ASSY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROX CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROX 6 INCHES FROM EACH CONNECTOR.  
CABLES ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
- 2.

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UNLESS OTHERWISE SPECIFIED  
LEADING DIMENSIONS ARE INCHES  
DIMENSIONS IN [ ] ARE MILLIMETERS

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TOLERANCES:

$X = \pm 2$	[5]	FRACTIONS
$.XX = \pm .02$	[.5]	$\pm 1/32$

DESCRIPTION	TNC Male Right Angle to SMA Male Cable Using RG174 Coax		
Phone	1.866.727.8376		1.949.261.1920

ITEM NO.	DRAWN BY	CAGE CODE	SIZE
PE3W07224	KDANG	53919	A

T-Rev.D