



TNC Male Right Angle to BNC Male Right Angle  
Cable Using RG214 Coax with 90 Deg. Clock

**RF Cable Assemblies Technical Data Sheet**

**PE3W07657/PH90**

**Configuration**

- Connector 1: TNC Male Right Angle
- Connector 2: BNC Male Right Angle
- Cable Type: RG214

**Features**

- Max Frequency 4 GHz
- 66% Phase Velocity
- Double Shielded
- PVC Jacket

**Applications**

- General Purpose
- Laboratory Use

**Description**

Pasternack's PE3W07657/PH90 TNC male right angle to BNC male right angle cable using RG214 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 BNC cable assembly has a male to male gender configuration with 50 ohm flexible RG214 coax. The PE3W07657/PH90 TNC male to BNC male cable assembly operates to 4 GHz. The right angle TNC and right angle BNC interfaces on the RG214 cable allow 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.

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 BNC Male Right Angle Cable Using RG214 Coax with 90 Deg. Clock PE3W07657/PH90](#)



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**Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		4	GHz
VSWR			1.4:1	
Velocity of Propagation		66		%
Capacitance		30.8 [101.05]		pF/ft [pF/m]
Operating Voltage (AC)			500	Vrms

**Specifications by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	4	GHz
Insertion Loss (Typ.)	0.02	0.03	0.045	0.076	0.174	dB/ft
	0.07	0.1	0.15	0.25	0.57	

**Electrical Specification Notes:**

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.2 dB per connector.

**Mechanical Specifications**

**Cable Assembly**

**Cable**

Cable Type	RG214
Impedance	50 Ohms
Inner Conductor Type	Stranded
Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	PE
Number of Shields	2
Shield Layer 1	Silver Plated Copper Braid
Shield Layer 2	Silver Plated Copper Braid
Jacket Material	PVC, Black
Jacket Diameter	0.425 in [10.8 mm]
Repeated Minimum Bend Radius	1.6 in [40.64 mm]

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## RF Cable Assemblies Technical Data Sheet

**PE3W07657/PH90**

### Connectors

Description	Connector 1	Connector 2
Type	TNC Male Right Angle	BNC Male Right Angle
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification		30 µin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100 µin minimum	100 µin minimum
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel
Coupling Nut Plating Specification	100 µin minimum	100 µin minimum

### Environmental Specifications

#### Temperature

Operating Range -20 to +80 deg C

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

### Plotted and Other Data

Notes:

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**RF Cable Assemblies Technical Data Sheet**

**PE3W07657/PH90**

**How to Order**

Part Number Configuration:

**PE3W07657/PH90**

- **xx**

**uu**

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

Example: PE3W07657/PH90-12 = 12 inches long cable  
PE3W07657/PH90-100cm = 100 cm long cable

TNC Male Right Angle to BNC Male Right Angle Cable Using RG214 Coax with 90 Deg. Clock 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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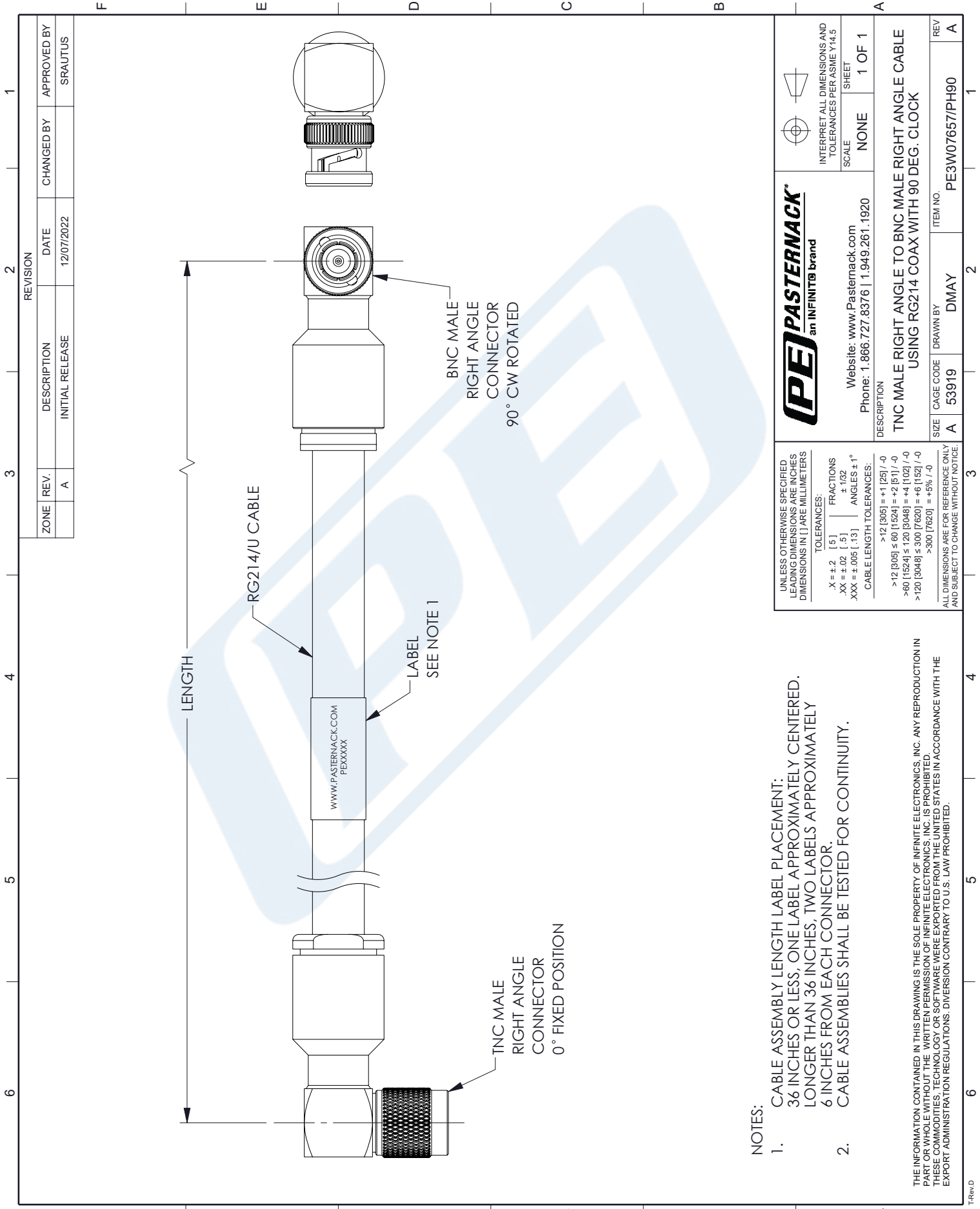
URL:

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# PE3W07657/PH90 CAD Drawing

## TNC Male Right Angle to BNC Male Right Angle Cable

### Using RG214 Coax with 90 Deg. Clock



**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.

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UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS	
TOLERANCES:	
.X = ±.2 [ .5 ]	FRACTIONS
.XX = ±.02 [ .1 ]	± 1/32
.XXX = ±.005 [ .13 ]	ANGLES ± 1°
CABLE LENGTH TOLERANCES:	
>12 [305]	±.1 [25] / -0
>12 [305] ≤ 60 [1524]	±.2 [5] / -0
>60 [1524] ≤ 120 [3048]	±.4 [102] / -0
>120 [3048] ≤ 300 [7620]	±.6 [152] / -0
>300 [7620]	±.8 [203] / -0
ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE.	

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INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE

SHEET: 1 OF 1

DESCRIPTION:  
TNC MALE RIGHT ANGLE TO BNC MALE RIGHT ANGLE CABLE  
USING RG214 COAX WITH 90 DEG. CLOCK

REV	CAGE CODE	DRAWN BY	ITEM NO.
A	53919	DMAY	PE3W07657/PH90