



TNC Male Right Angle to N Male Right Angle  
Cable Using RG142 Coax with HeatShrink

**RF Cable Assemblies Technical Data Sheet**

**PE3228/HS**

**Configuration**

- Connector 1: TNC Male Right Angle
- Connector 2: N Male Right Angle
- Cable Type: RG142

**Features**

- Max Frequency 1 GHz
- 70% Phase Velocity
- Double Shielded
- FEP Jacket

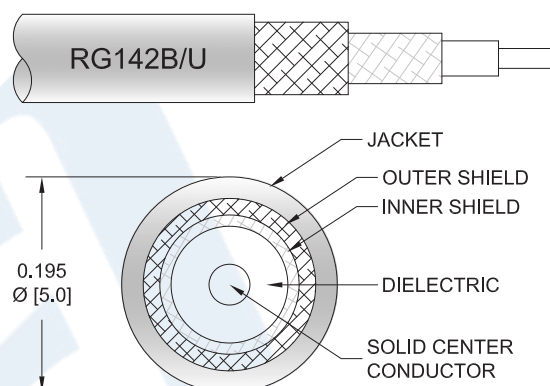
**Applications**

- General Purpose
- Laboratory Use

**Description**

Pasternack's PE3228/HS TNC male right angle to type N male right angle cable using RG142 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 RG142 coax. The PE3228/HS TNC male to type N male cable assembly operates to 1 GHz. The right angle TNC and right angle type N interfaces on the RG142 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 N Male Right Angle Cable Using RG142 Coax with HeatShrink PE3228/HS](#)



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**Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		1,000	MHz
VSWR			1.4:1	
Velocity of Propagation		70		%
Capacitance		29.4 [96.46]		pF/ft [pF/m]
Operating Voltage (AC)			500	Vrms

**Specifications by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency	100	250	500	1,000		MHz
Insertion Loss (Typ.)	0.039	0.054	0.079	0.13		dB/ft
	0.13	0.18	0.26	0.43		dB/m

**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**

Weight 0.232 lbs [105.23 g]

**Cable**

Cable Type RG142  
Impedance 50 Ohms  
Inner Conductor Type Solid  
Inner Conductor Material and Plating Copper Clad Steel, Silver  
Dielectric Type PTFE  
Number of Shields 2  
Shield Layer 1 Silver Plated Copper Braid  
Shield Layer 2 Silver Plated Copper Braid  
Jacket Material FEP, Tan  
Jacket Diameter 0.195 in [4.95 mm]  
  
Repeated Minimum Bend Radius 1 in [25.4 mm]

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## TNC Male Right Angle to N Male Right Angle Cable Using RG142 Coax with HeatShrink

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**PE3228/HS**

#### Connectors

Description	Connector 1	Connector 2
Type	TNC Male Right Angle	N Male Right Angle
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Mating Cycles		500
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	30 µin minimum	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	

#### Environmental Specifications

##### Temperature

Operating Range

-55 to +165 deg C

Vibration

MIL-STD-202, Method 204, Condition B

Temperature Cycle

MIL-STD-202, Method 107, Condition B

Salt Fog

MIL-STD-202, Method 101, Condition B

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

#### Plotted and Other Data

Notes:

- Values at 25° C, sea level

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## TNC Male Right Angle to N Male Right Angle Cable Using RG142 Coax with HeatShrink

### RF Cable Assemblies Technical Data Sheet

**PE3228/HS**

#### How to Order

Part Number Configuration:

**PE3228/HS**

- **xx**

**uu**

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

Example: PE3228/HS-12 = 12 inches long cable  
PE3228/HS-100cm = 100 cm long cable

TNC Male Right Angle to N Male Right Angle Cable Using RG142 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.

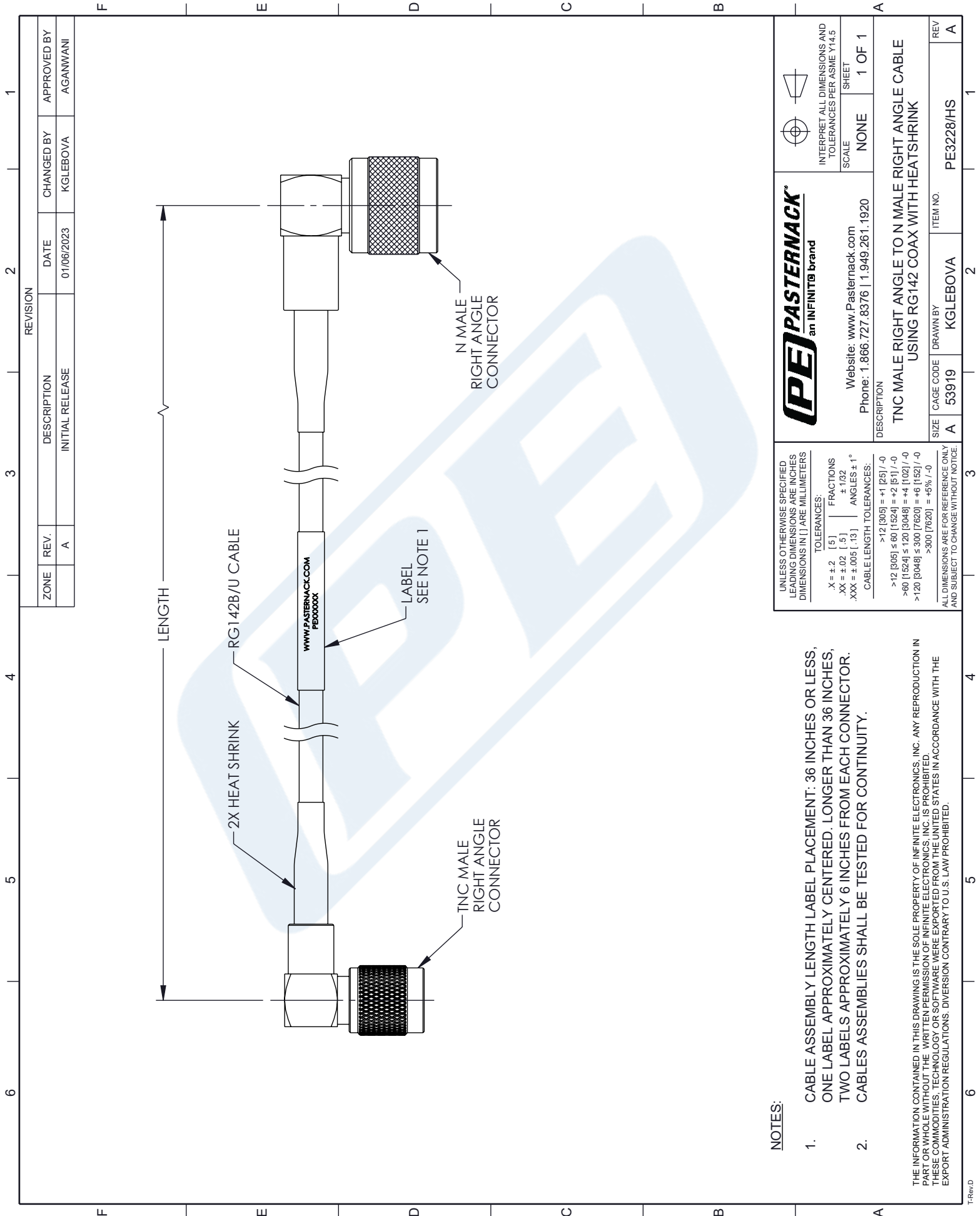
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [TNC Male Right Angle to N Male Right Angle Cable Using RG142 Coax with HeatShrink PE3228/HS](https://www.pasternack.com/tnc-male-right-angle-to-n-male-cable-using-rg142-with-heatshrink-pe3228-hs-p.aspx)

URL: <https://www.pasternack.com/tnc-male-right-angle-to-n-male-cable-using-rg142-with-heatshrink-pe3228-hs-p.aspx>

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# PE3228/HS CAD Drawing

TNC Male Right Angle to N Male Right Angle Cable Using RG142 Coax with HeatShrink



## 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. CABLES ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

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Website: <a href="http://www.Pasternack.com">www.Pasternack.com</a> Phone: 1.866.727.8376   1.949.261.1920		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE: NONE SHEET: 1 OF 1
<b>DESCRIPTION</b> TNC MALE RIGHT ANGLE TO N MALE RIGHT ANGLE CABLE USING RG142 COAX WITH HEATSHRINK		<b>REV</b> A
<b>SIZE</b> A	<b>CAGE CODE</b> 53919	<b>ITEM NO.</b> PE3228/HS
<b>DRAWN BY</b> KGLEBOVA		<b>REV</b> A

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS	<b>TOLERANCES:</b> X = ±.2 [ .5 ] XX = ±.02 [ .5 ] XXX = ±.005 [ .13 ]	<b>FRACTIONS</b> ± 1/32 <b>ANGLES</b> ± 1°
<b>CABLE LENGTH TOLERANCES:</b> >12 [305] = +1 [25] / -0 >60 [1524] = +2 [51] / -0 >120 [3048] = +4 [102] / -0 >300 [7620] = +6 [152] / -0 >300 [7620] = +5% / -0		
ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE.		