

## TNC Male Right Angle to TNC Male Right Angle Cable Using RG142 Coax



### PE3W15264

#### Configuration

- Connector 1: TNC Male Right Angle
- Connector 2: TNC Male Right Angle
- Cable Type: RG142
- Coax Flex Type: Flexible

#### Features

- Max Frequency 8 GHz
- 70% Phase Velocity
- Double Shielded
- FEP Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W15264 TNC male right angle to TNC 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 TNC cable assembly has a male to male gender configuration with 50 ohm flexible RG142 coax. The PE3W15264 TNC male to TNC male cable assembly operates to 8 GHz. The right angle TNC 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.

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		8	GHz
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

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Part Number	Length	Description	F1	F2	F3	F4	Units	Weight (lbs)
			Frequency	500	1000	2000	4000	
PE3W15264	Custom Lengths Available	Insertion Loss (Typ.)	0.09	0.13	0.184	0.28	dB/ft	
			0.29	0.43	0.61	0.92	dB/m	
PE3W15264-12	12 inch	Insertion Loss (Typ.)	0.49	0.53	0.59	0.68	dB	0.218
PE3W15264-24	24 inch	Insertion Loss (Typ.)	0.58	0.66	0.77	0.96	dB	0.26
PE3W15264-36	36 inch	Insertion Loss (Typ.)	0.67	0.79	0.96	1.24	dB	0.302
PE3W15264-48	48 inch	Insertion Loss (Typ.)	0.75	0.92	1.14	1.52	dB	0.344
PE3W15264-60	60 inch	Insertion Loss (Typ.)	0.84	1.05	1.32	1.8	dB	0.386

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: 0.2 dB  
 Base Weight: 0.218 pounds  
 Additional Weight per Inch: 0.0035 pounds

**Mechanical Specifications**

**Cable Assembly**

Width/Diameter 0.5 in [12.7 mm]  
 Weight 0.218 lbs [98.88 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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**Connectors**

Description	Connector 1	Connector 2
Type	TNC Male Right Angle	TNC Male Right Angle
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Right Angle
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	100 µin minimum

**Environmental Specifications**

Operating Range Temperature -55 to +165 deg C

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

**Plotted and Other Data**

Notes:

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**PE3W15264**

**Typical Performance Data**

**How to Order**

Part Number Configuration:

**PE3W15264**

**- xx**

**uu**

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

Example: PE3W15264-12 = 12 inches long cable  
PE3W15264-100cm = 100 cm long cable

TNC Male Right Angle to TNC Male Right Angle Cable Using RG142 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 TNC Male Right Angle Cable Using RG142 Coax PE3W15264](#)

URL: <https://www.pasternack.com/tnc-male-right-angle-to-tnc-male-cable-using-rg142-pe3w15264-p.aspx>

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# PE3W15264 CAD Drawing

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