



## TNC Male to TNC Male Cable 12 Inch Length Using RG142 Coax

## RF Cable Assemblies Technical Data Sheet

PE3544-12

**Configuration**

- Connector 1: TNC Male
- Connector 2: TNC Male
- Cable Type: RG142

**Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		5	GHz
VSWR			1.5:1	
Return Loss	15.563			dB
Velocity of Propagation		69.2		%
RF Shielding	90			dB
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	0.4	1	3	5		GHz
Insertion Loss (Typ.)	0.08	0.13	0.25	0.33		dB

**Electrical Specification Notes:**

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as .05dB x  $\sqrt{\text{Frequency (GHz)}}$  per connector.

**Mechanical Specifications****Cable Assembly**

Length	12 in [304.8 mm]
Diameter	0.591 in [15.01 mm]
Weight	0.101 lbs [45.81 g]

**Cable**

Cable Type	RG142
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper Clad Steel, Silver

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [TNC Male to TNC Male Cable 12 Inch Length Using RG142 Coax PE3544-12](#)



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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]
One Time Minimum Bend Radius	0.984 in [24.99 mm]
Repeated Minimum Bend Radius	2 in [50.8 mm]

#### Connectors

Description	Connector 1	Connector 2
Type	TNC Male	TNC Male
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	30µ in. minimum	30µ in. minimum
Dielectric Type	Teflon	Teflon
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel
Coupling Nut Plating Specification	100µ in. minimum	100µ in. minimum
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100µ in. minimum	100µ in. minimum

#### Compliance Certifications (visit [www.Pasternack.com](http://www.Pasternack.com) for current document)

For RoHS Compliant version, use PE3544LF-12. Contact Pasternack if product cannot be found.  
REACH Compliant 06/18/2012

#### Plotted and Other Data

Notes:

- Values at 25°C, sea level.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [TNC Male to TNC Male Cable 12 Inch Length Using RG142 Coax PE3544-12](#)



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### RF Cable Assemblies Technical Data Sheet

PE3544-12

#### How to Order

Part Number Configuration:

**PE3544**

- **xx**

**uu**

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

Example: PE3544-12 = 12 inches long cable  
PE3544-100cm = 100 cm long cable

TNC Male to TNC Male Cable 12 Inch Length 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% availability and are part of the broadest selection in the industry.

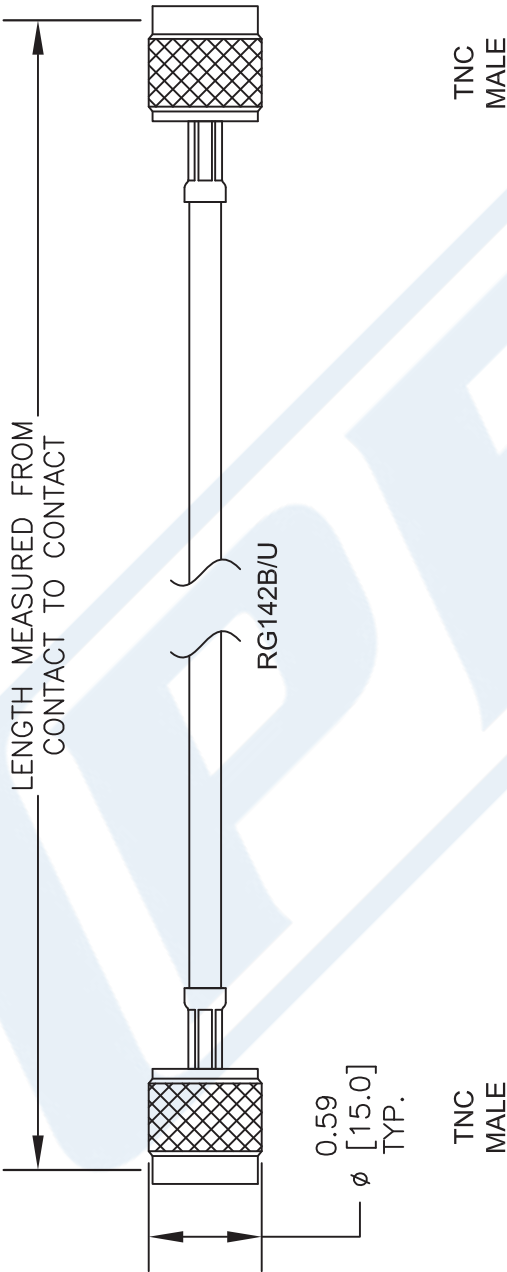
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [TNC Male to TNC Male Cable 12 Inch Length Using RG142 Coax PE3544-12](https://www.pasternack.com/tnc-male-tnc-male-rg142bu-cable-assembly-pe3544-12-p.aspx)

URL: <https://www.pasternack.com/tnc-male-tnc-male-rg142bu-cable-assembly-pe3544-12-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.

PE3544-12 CAD Drawing

TNC Male to TNC Male Cable 12 Inch Length Using RG142 Coax



- NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.

2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.

3. DIMENSIONS ARE IN INCHES [mm].

4. LENGTH TOLERANCE IS ± 1.5% OR 3/8", WHICHEVER IS GREATER.

DWG TITLE

PE3544

FSCM NO. 53919

CAD FILE 071416

SCALE N/A

SIZE A

2233

PE

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