



## TNC Male to TNC Male Low Loss Cable 48 Inch Length Using TCOM-240 Coax with Times Microwave Components

### RF Cable Assemblies Technical Data Sheet

**PE3C9816-48**

#### Configuration

- Connector 1: TNC Male
- Connector 2: TNC Male
- Cable Type: TCOM-240
- Coax Flex Type: Flexible

#### Features

- Max Frequency 6 GHz
- Double Shielded
- PE Jacket
- 500 Mating Cycles

#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3C9816-48 TNC male to TNC male 48 inch cable using TCOM-240 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 TCOM-240 coax. The PE3C9816-48 TNC male to TNC male cable assembly operates to 6 GHz. 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      |         | 6       | GHz   |
| VSWR            |         |         | 1.4:1   |       |

#### Specifications by Frequency

| Description           | F1   | F2   | F3  | F4   | F5   | Units |
|-----------------------|------|------|-----|------|------|-------|
| Frequency             | 0.25 | 0.5  | 1   | 2.5  | 6    | GHz   |
| Insertion Loss (Typ.) | 0.25 | 0.35 | 0.5 | 0.94 | 1.28 | dB    |

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of  $0.1 \times \sqrt{\text{FGHz}}$  dB per connector.

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 Low Loss Cable 48 Inch Length Using TCOM-240 Coax with Times Microwave Components PE3C9816-48](#)



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**Mechanical Specifications**

**Cable Assembly**

Length\* 48 in [121.92 cm]

Weight 0.22 lbs [99.79 g]

**Cable**

Cable Type TCOM-240  
Impedance 50 Ohms  
Inner Conductor Type Solid  
Inner Conductor Material and Plating Copper  
Dielectric Type PE (F)  
Number of Shields 2  
Shield Layer 1 Silver Plated Copper Braid  
Shield Layer 2 Tinned Copper Braid  
Jacket Material PE, Black  
Jacket Diameter 0.24 in [6.1 mm]

**Connectors**

| Description                        | Connector 1           | Connector 2           |
|------------------------------------|-----------------------|-----------------------|
| Type                               | TNC Male Threaded     | TNC Male Threaded     |
| Impedance                          | 50 Ohms               | 50 Ohms               |
| Mating Cycles                      | 500                   | 500                   |
| Contact Material and Plating       | Phosphor Bronze, Gold | Phosphor Bronze, Gold |
| Contact Plating Specification      | 50µ in. minimum       | 50µ in. minimum       |
| Dielectric Type                    | Teflon                | Teflon                |
| Body Material and Plating          | Brass, Tri-Metal      | Brass, Tri-Metal      |
| Body Plating Specification         | 80µ in. minimum       | 80µ in. minimum       |
| Coupling Nut Material and Plating  | Brass, Tri-Metal      | Brass, Tri-Metal      |
| Coupling Nut Plating Specification | 80µ in. minimum       | 80µ in. minimum       |

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

**Plotted and Other Data**

Notes:

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#### How to Order

Part Number Configuration:

**PE3C9816**

- **xx**

**uu**

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

Example: PE3C9816-12 = 12 inches long cable  
PE3C9816-100cm = 100 cm long cable

TNC Male to TNC Male Low Loss Cable 48 Inch Length Using TCOM-240 Coax with Times Microwave Components 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-to-tnc-male-low-loss-cable-48-inch-length-using-tcom-240-pe3c9816-48-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.

# PE3C9816-48 CAD Drawing

TNC Male to TNC Male Low Loss Cable 48 Inch Length Using  
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