

## 75 Ohm TNC Male to 75 Ohm BNC Male Cable Using 75 Ohm RG179 Coax

### PE3W14358



#### Configuration

- Connector 1: TNC Male
- Connector 2: BNC Male
- Cable Type: RG179
- Coax Flex Type: Flexible

#### Features

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

#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W14358 75 ohm TNC male to 75 ohm BNC male cable using 75 ohm RG179 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 75 ohm flexible RG179 coax. The PE3W14358 TNC male to BNC male cable assembly operates to 1 GHz.

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      |              | 1       | GHz          |
| VSWR                    |         |              | 1.5:1   |              |
| Velocity of Propagation |         | 70           |         | %            |
| Capacitance             |         | 19.4 [63.65] |         | 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             | 100  | 250  | 500   | 1000  | MHz   |              |
| PE3W14358    | Custom Lengths Available | Insertion Loss (Typ.) | 0.09 | 0.14 | 0.184 | 0.203 | dB/ft |              |
|              |                          |                       | 0.3  | 0.45 | 0.61  | 0.67  | dB/m  |              |
| PE3W14358-12 | 12 inch                  | Insertion Loss (Typ.) | 0.37 | 0.41 | 0.46  | 0.48  | dB    | 0.086        |
| PE3W14358-24 | 24 inch                  | Insertion Loss (Typ.) | 0.46 | 0.55 | 0.65  | 0.68  | dB    | 0.095        |
| PE3W14358-36 | 36 inch                  | Insertion Loss (Typ.) | 0.55 | 0.69 | 0.83  | 0.89  | dB    | 0.104        |
| PE3W14358-48 | 48 inch                  | Insertion Loss (Typ.) | 0.64 | 0.83 | 1.01  | 1.09  | dB    | 0.113        |
| PE3W14358-72 | 72 inch                  | Insertion Loss (Typ.) | 0.82 | 1.1  | 1.38  | 1.5   | dB    | 0.131        |

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:    | 0.1 dB         |
| Loss due to Connector 2:    | 0.173 dB       |
| Base Weight:                | 0.086 pounds   |
| Additional Weight per Inch: | 0.00075 pounds |

### Mechanical Specifications

#### Cable Assembly

|                |                     |
|----------------|---------------------|
| Width/Diameter | 0.5 in [12.7 mm]    |
| Weight         | 0.086 lbs [39.01 g] |

#### Cable

|                                      |                            |
|--------------------------------------|----------------------------|
| Cable Type                           | RG179                      |
| Impedance                            | 75 Ohms                    |
| Inner Conductor Type                 | Stranded                   |
| Inner Conductor Material and Plating | Copper Clad Steel, Silver  |
| Dielectric Type                      | PTFE                       |
| Number of Shields                    | 1                          |
| Shield Layer 1                       | Silver Plated Copper Braid |
| Jacket Material                      | FEP, Tan                   |
| Jacket Diameter                      | 0.1 in [2.54 mm]           |
| Repeated Minimum Bend Radius         | 0.4 in [10.16 mm]          |

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### Connectors

| Description                        | Connector 1     | Connector 2     |
|------------------------------------|-----------------|-----------------|
| Type                               | TNC Male        | BNC Male        |
| Impedance                          | 75 Ohms         | 75 Ohms         |
| Configuration                      | Straight        | Straight        |
| Contact Material and Plating       | Brass, Gold     | Brass, Gold     |
| Contact Plating Specification      | 50 µin minimum  | 30 µin minimum  |
| Dielectric Type                    |                 | PTFE            |
| Body Material and Plating          | Brass, Nickel   | Brass, Nickel   |
| Body Plating Specification         | 200 µin minimum | 100 µin minimum |
| Coupling Nut Material and Plating  | Brass, Nickel   | Brass, Nickel   |
| Coupling Nut Plating Specification | 200 µin minimum | 100 µin minimum |

### Environmental Specifications

Operating Range Temperature -55 to +125 deg C

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

### Plotted and Other Data

Notes:

## 75 Ohm TNC Male to 75 Ohm BNC Male Cable Using 75 Ohm RG179 Coax



### PE3W14358

#### Typical Performance Data

#### How to Order

Part Number Configuration:

**PE3W14358**

**- xx**

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Unit of Measure:  
cm = Centimeters  
<blank> = Inches

Length

Base Number

Example: PE3W14358-12 = 12 inches long cable  
PE3W14358-100cm = 100 cm long cable

75 Ohm TNC Male to 75 Ohm BNC Male Cable Using 75 Ohm RG179 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: [75 Ohm TNC Male to 75 Ohm BNC Male Cable Using 75 Ohm RG179 Coax PE3W14358](https://www.pasternack.com/75-ohm-tnc-male-to-75-ohm-bnc-male-cable-using-rg179-pe3w14358-p.aspx)

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PE3W14358 CAD Drawing
75 Ohm TNC Male to 75 Ohm BNC Male Cable Using 75 Ohm RG179 Coax

