



10-32 Female to BNC Male Cable 50 CM  
Length Using RG178 Coax

RF Cable Assemblies Technical Data Sheet

PE3W03496-50CM

### Configuration

- Connector 1: 10-32 Female
- Connector 2: BNC Male
- Cable Type: RG178

### Features

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

### Applications

- General Purpose
- Laboratory Use

### Description

Pasternack's PE3W03496-50CM 10-32 female to BNC male 50 cm cable using RG178 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 10-32 to BNC cable assembly has a female to male gender configuration with 50 ohm flexible RG178 coax. The PE3W03496-50CM 10-32 female 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		1,000	MHz
VSWR			1.5:1	
Velocity of Propagation		70		%
Capacitance		29.4 [96.46]		pF/ft [pF/m]

### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	100	250	500	1,000		MHz
Insertion Loss (Max.)	0.43	0.54	0.7	0.93		dB

### Electrical Specification Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [10-32 Female to BNC Male Cable 50 CM Length Using RG178 Coax PE3W03496-50CM](#)



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The Insertion Loss data above is based on the performance specifications of the coax used in this assembly. The Insertion Loss Includes an estimated insertion loss of 0.2dB of connector loss.

**Mechanical Specifications**

**Cable Assembly**

Length\* 19.69 in [500.13 mm]  
Diameter 0.57 in [14.48 mm]

**Cable**

Cable Type RG178  
Impedance 50 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 0.072 in [1.83 mm]  
  
Repeated Minimum Bend Radius 0.4 in [10.16 mm]

**Connectors**

Description	Connector 1	Connector 2
Type	10-32 Female	BNC Male
Specification	MIL-C-39012	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Gold	Brass, Gold
Contact Plating Specification	MIL-G-45204	30 µin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	QQ-N-290	100 µin minimum
Coupling Nut Material and Plating		Brass, Nickel
Coupling Nut Plating Specification		100 µin minimum

**Mechanical Specification Notes:**

\*All cable assemblies have a length tolerance of 1.5% or  $\pm 3/8"$ , whichever is greater.

**Environmental Specifications**

**Temperature**

Operating Range -55 to +165 deg C

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [10-32 Female to BNC Male Cable 50 CM Length Using RG178 Coax PE3W03496-50CM](#)



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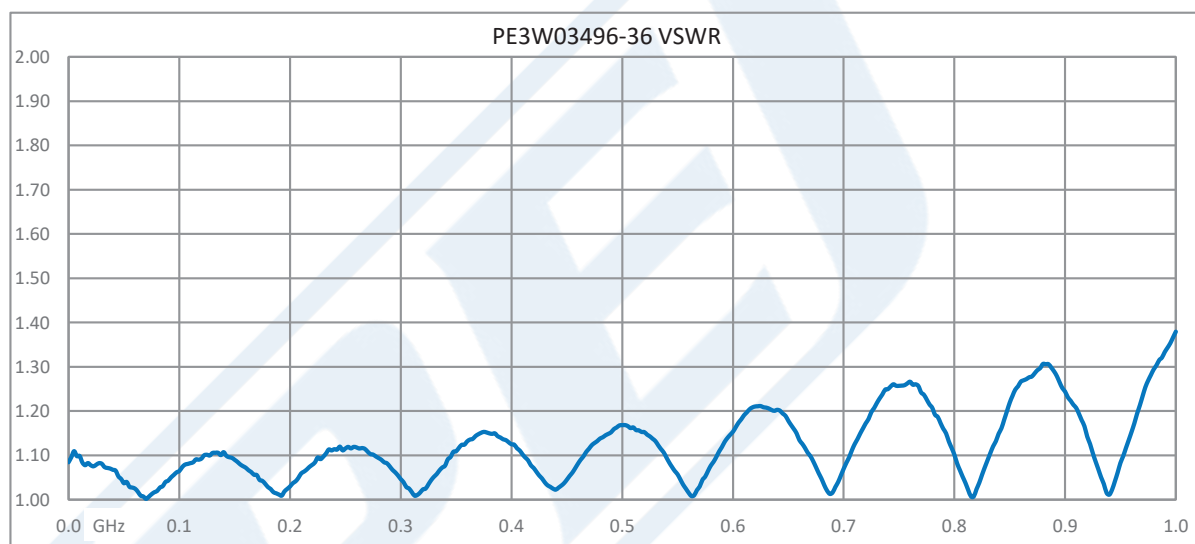
PE3W03496-50CM

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

### Plotted and Other Data

Notes:

#### Typical Performance Data



Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [10-32 Female to BNC Male Cable 50 CM Length Using RG178 Coax PE3W03496-50CM](#)



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RF Cable Assemblies Technical Data Sheet

PE3W03496-50CM

**How to Order**

Part Number Configuration:

**PE3W03496**

- **xx**

**uu**

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

Example: PE3W03496-12 = 12 inches long cable  
PE3W03496-100cm = 100 cm long cable

10-32 Female to BNC Male Cable 50 CM Length Using RG178 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.

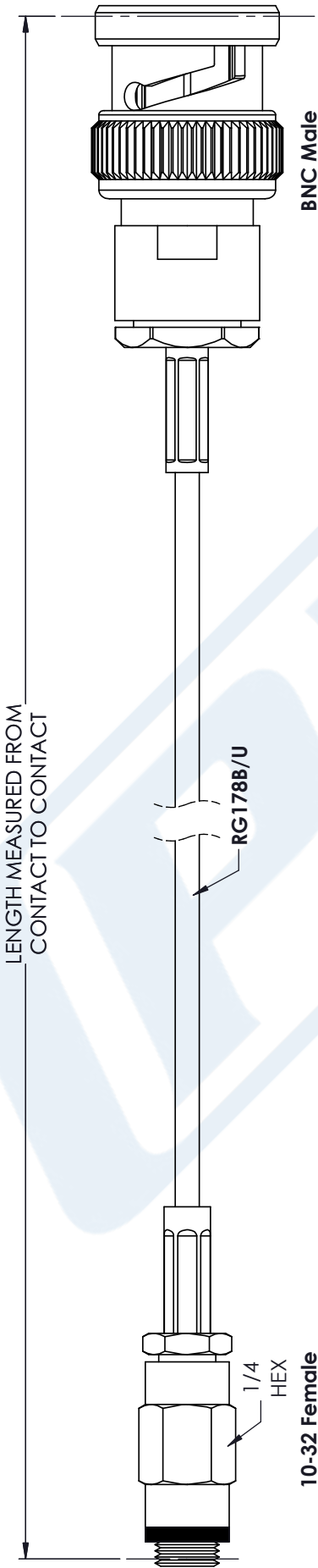
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [10-32 Female to BNC Male Cable 50 CM Length Using RG178 Coax PE3W03496-50CM](https://www.pasternack.com/10-32-female-bnc-male-rg178bu-cable-assembly-pe3w03496-50cm-p.aspx)

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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.

PE3W03496-50CM CAD Drawing

10-32 Female to BNC Male Cable 50 CM Length Using RG178 Coax



STANDARD TOLERANCES	
.X	±0.2
.XX	±0.01
.XXX	±0.005

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES



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DWG TITLE

PE3W03496

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].

CAGE CODE 53919

CAD FILE 09/26/18

SCALE N/A

SIZE A

CN2379