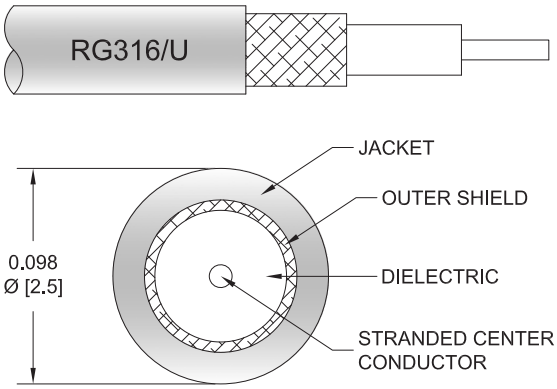
# SMA Male to BNC Male Clamped Cable Using RG316 Coax

## PE3W03083

### Configuration

- Connector 1:  SMA Male
- Connector 2:  BNC Male
- Cable Type: RG316
- Coax Flex Type: Flexible




### Features

- Max Frequency 3 GHz
- 69% Phase Velocity
- FEP Jacket

### Applications

- General Purpose
- Laboratory Use

### Description

Pasternack's PE3W03083 SMA male to BNC male cable using RG316 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 SMA to BNC cable assembly has a male to male gender configuration with 50 ohm flexible RG316 coax. The PE3W03083 SMA male to BNC male cable assembly operates to 3 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 | | 3 | GHz |
| Velocity of Propagation | | 69 | | % |
| Jacket Spark | | | 2,000 | Vrms |

### Specifications by Frequency

# SMA Male to BNC Male Clamped Cable Using RG316 Coax

## PE3W03083

| Part Number | Length | Description | F1 | F2 | F3 | F4 | F5 | Units | Weight (lbs) |
|---|---|---|---|---|---|---|---|---|---|
| | | Frequency | 100 | 250 | 500 | 1000 | 3000 | MHz | |
| PE3W03083 | Custom Lengths Available | Insertion Loss (Typ.) | 0.11 | 0.16 | 0.24 | 0.38 | 0.58 | dB/ft | |
| | | | 0.37 | 0.53 | 0.79 | 1.25 | 1.91 | dB/m | |
| PE3W03083-12 | 12 inch | Insertion Loss (Typ.) | 0.41 | 0.46 | 0.54 | 0.68 | 0.88 | dB | 0.063 |
| PE3W03083-24 | 24 inch | Insertion Loss (Typ.) | 0.52 | 0.62 | 0.78 | 1.06 | 1.46 | dB | 0.074 |
| PE3W03083-36 | 36 inch | Insertion Loss (Typ.) | 0.63 | 0.78 | 1.02 | 1.44 | 2.04 | dB | 0.084 |
| PE3W03083-48 | 48 inch | Insertion Loss (Typ.) | 0.74 | 0.94 | 1.26 | 1.82 | 2.62 | dB | 0.094 |
| PE3W03083-72 | 72 inch | Insertion Loss (Typ.) | 0.96 | 1.26 | 1.73 | 2.58 | 3.78 | dB | 0.114 |

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: | 0.2 | dB |
| Base Weight: | 0.063 | pounds |
| Additional Weight per Inch: | 0.00084 | pounds |

## Mechanical Specifications

### Cable Assembly

| | |
|---|---|
| Weight | 0.063 lbs [28.58 g] |

### Cable

| | |
|---|---|
| Cable Type | RG316 |
| 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 | 0.098 in [2.49 mm] |

# SMA Male to BNC Male Clamped Cable Using RG316 Coax

## PE3W03083

### Connectors

| Description | Connector 1 | Connector 2 |
|---|---|---|
| Type | SMA Male | BNC Male |
| Specification | | MIL-STD-348A |
| Impedance | 50 Ohms | 50 Ohms |
| Configuration | Straight | Straight |
| Mating Cycles | | 500 |
| Contact Material and Plating | Brass, Gold | Brass, Gold |
| Contact Plating Specification | | 30 µin minimum |
| Dielectric Type | PTFE | PTFE |
| Body Material and Plating | Brass, Gold | Brass, Nickel |
| Body Plating Specification | | 100 µin minimum |
| Coupling Nut Material and Plating | Brass, Gold | Brass, Nickel |
| Hex Size | 5/16 in | |
| Torque | 5 in-lbs 0.57 Nm | |

### Environmental Specifications

### Compliance Certifications (see product page for current document)

### Plotted and Other Data

Notes:

# SMA Male to BNC Male Clamped Cable Using RG316 Coax

## PE3W03083

### Typical Performance Data

### How to Order

Part Number Configuration: **PE3W03083 - xx uu**

- uu — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- xx — Length
- PE3W03083 — Base Number

Example: PE3W03083-12 = 12 inches long cable
PE3W03083-100cm = 100 cm long cable

SMA Male to BNC Male Clamped Cable Using RG316 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: SMA Male to BNC Male Clamped Cable Using RG316 Coax PE3W03083

URL: https://www.pasternack.com/sma-male-to-bnc-male-clamped-cable-using-rg316-pe3w03083-p.aspx

# PE3W03083 CAD Drawing

SMA Male to BNC Male Clamped Cable Using RG316 Coax