



Slide-On BMA Plug Bulkhead to TNC Male Cable Using RG316 Coax

RF Cable Assemblies Technical Data Sheet

PE3C4947

Configuration

- Connector 1: Slide-On BMA Plug Bulkhead
- Connector 2: TNC Male
- Cable Type: RG316

Features

- Max Frequency 2.5 GHz
- 69% Phase Velocity
- FEP Jacket
- Good VSWR of 1.4:1
- Gold Plated BMA Contacts
- Low Engagement Force BMA interface
- In stock and ready to ship

Applications

- General Purpose
- Laboratory Use BMA Cable RF Backplanes
- Blind Mate BMA Test
- Rack and Panel
- Phased Array Interconnects
- High Speed Switching Networks

Description

Pasternack's BMA cable assemblies using RG316/U Coax are part of our full line of RF components available for same-day shipping. These BMA cable assemblies are designed to connect BMA system components, BMA racks, or BMA backplanes, delivering signal frequencies as high as 22 GHz. Our family of BMA cables can also be used to connect switching networks or phase-matched antenna arrays where low loss BMA interconnects are desired. If none of our standard options fit your application, you can specify your own custom BMA cable assembly using Pasternack's online Cable Creator.

Our BMA cable assembly datasheet specifications and drawing with dimensions are shown below in this PDF. Pasternack's broad catalog of RF, microwave and millimeter wave cable assemblies allow designers to configure and customize their signal connections however they like. Whether the need is to provide BMA cabling or blind mate rack connections, Pasternack has the right cable assemblies for the job. Pasternack can also expertly build your custom cable assemblies for you and ship same day.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Slide-On BMA Plug Bulkhead to TNC Male Cable Using RG316 Coax PE3C4947](#)



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Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|---|---------|---------|---------|-------|
| Frequency Range | DC | | 2.5 | GHz |
| VSWR | | | 1.4:1 | |
| Return Loss | | | 15.56 | dB |
| Velocity of Propagation | | 69 | | % |
| Operating Voltage (AC) | | | 250 | Vrms |
| Jacket Spark | | | 2,000 | Vrms |
| Channel-to-Channel Insertion Loss Match | | 58 | | dB |

Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|------|------|------|------|------|-------|
| Frequency | 0.1 | 0.25 | 0.5 | 1 | 2.5 | GHz |
| Insertion Loss (Typ.) | 0.11 | 0.15 | 0.27 | 0.38 | 0.53 | dB/ft |
| | 0.36 | 0.49 | 0.89 | 1.25 | 1.74 | dB/m |

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

Mechanical Specifications

Cable Assembly

Diameter 0.6 in [15.24 mm]

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]

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Connectors

| Description | Connector 1 | Connector 2 |
|--------------------------------------|----------------------------|------------------------|
| Type | BMA Plug Bulkhead | TNC Male |
| Impedance | 50 Ohms | 50 Ohms |
| Connection Method | Slide-On | |
| Contact Material and Plating | Beryllium Copper, Gold | Beryllium Copper, Gold |
| Contact Plating Specification | 51.18µ in. minimum | |
| Dielectric Type | PTFE | Teflon |
| Outer Conductor Material and Plating | Passivated Stainless Steel | |
| Body Material and Plating | Passivated Stainless Steel | Brass, Silver |
| Coupling Nut Material and Plating | | Brass, Silver |
| Hex Size | 8 mm | |

Mechanical Specification Notes:

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

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

Plotted and Other Data

Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Slide-On BMA Plug Bulkhead to TNC Male Cable Using RG316 Coax PE3C4947](#)

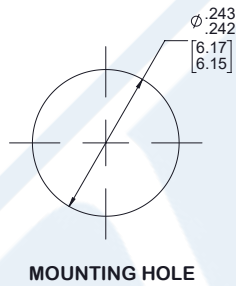


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Typical Performance Data



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How to Order

Part Number Configuration:

PE3C4947

- **xx**

uu

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

Example: PE3C4947-12 = 12 inches long cable
PE3C4947-100cm = 100 cm long cable

Slide-On BMA Plug Bulkhead to TNC Male 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.

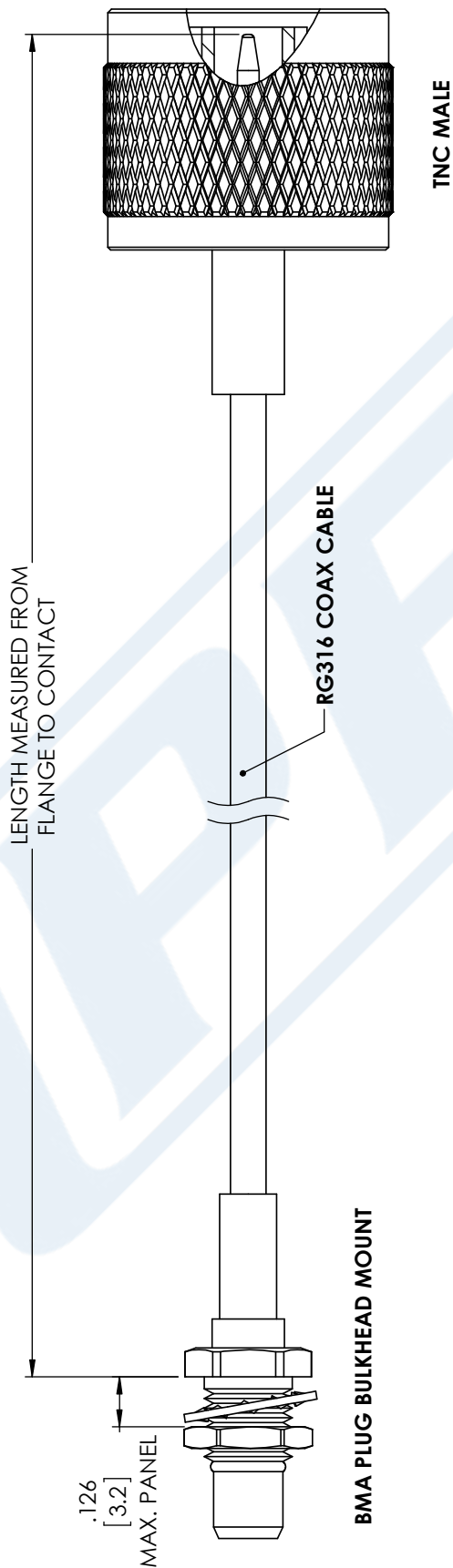
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Slide-On BMA Plug Bulkhead to TNC Male Cable Using RG316 Coax PE3C4947](https://www.pasternack.com/bma-plug-tnc-male-rg316u-cable-assembly-pe3c4947-p.aspx)

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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.

PE3C4947 CAD Drawing

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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

PE3C4947

CAGE CODE 53919

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].

CAD FILE 01/03/18

SCALE N/A

SIZE A

CN2245