



Slide-On BMA Jack 2 Hole Flange to SMA Male  
Cable 50 cm Length Using RG402 Coax

RF Cable Assemblies Technical Data Sheet

PE3W06981-50CM

### Configuration

- Connector 1: Slide-OnBMA Jack 2 Hole Flange
- Connector 2: SMA Male
- Cable Type: RG402

### Features

- Max Frequency 18 GHz
- 69.5% Phase Velocity

### Applications

- General Purpose
- Laboratory Use

### Description

Pasternack's PE3W06981-50CM BMA jack slide-on 2 hole flange to SMA male 50 cm cable using RG402 coax is part of our full line of RF components available for same-day shipping. Pasternack's semi-rigid RF cable assemblies are ideal for high performance applications and can be formed, using proper tooling, to the routing pattern required. This Pasternack BMA to SMA cable assembly has a jack to male gender configuration with 50 ohm semi-rigid RG402 coax. The PE3W06981-50CM BMA jack to SMA male cable assembly operates to 18 GHz. Our RF cable assembly with BMA 2 hole flange interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications.

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		18	GHz
VSWR			1.5:1	
Velocity of Propagation		69.5		%

### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	18	GHz
Insertion Loss (Max.)	0.4	0.46	0.61	0.88	1.27	dB

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 Jack 2 Hole Flange to SMA Male Cable 50 cm Length Using RG402 Coax PE3W06981-50CM](#)



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Electrical Specification Notes:

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\* 19.68 in [499.87 mm]  
Diameter 0.74 in [18.8 mm]

**Cable**

Cable Type RG402  
Impedance 50 Ohms  
Inner Conductor Type Solid  
Inner Conductor Material and Plating Copper Clad Steel, Silver  
Dielectric Type PTFE  
Number of Shields 1  
Outer Conductor Material and Plating Copper

Repeated Minimum Bend Radius 0.25 in [6.35 mm]

**Connectors**

Description	Connector 1	Connector 2
Type	BMA Jack 2 Hole Flange	SMA Male
Impedance	50 Ohms	50 Ohms
Connection Method	Slide-On	
Mating Cycles	1,000	
Contact Material and Plating	Beryllium Copper, Gold	
Contact Plating Specification	51.18µ in. minimum	
Dielectric Type	PTFE	
Outer Conductor Material and Plating	Beryllium Copper, Gold	
Body Material and Plating	Stainless Steel, Gold	Brass, Gold over Nickel
Body Plating Specification	19.68µ in. minimum	
Coupling Nut Material and Plating		Passivated Stainless Steel
Hex Size		5/16 inch
Torque		8 in-lbs [0.9 Nm]

Mechanical Specification Notes:

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

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

**Plotted and Other Data**

Notes:

**How to Order**

Part Number Configuration:

**PE3W06981**

**- xx**

**uu**

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

Example: PE3W06981-12 = 12 inches long cable  
PE3W06981-100cm = 100 cm long cable

Slide-On BMA Jack 2 Hole Flange to SMA Male Cable 50 cm Length Using RG402 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.

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URL: <https://www.pasternack.com/bma-jack-sma-male-rg402u-cable-assembly-pe3w06981-50cm-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.

# PE3W06981-50CM CAD Drawing

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