Slide-On BMA Jack 2 Hole Flange to Slide-On BMA Jack 2 Hole Flange Cable Using RG316 Coax

RF Cable Assemblies Technical Data Sheet   PE3C4937

Configuration

- Connector 1: Slide-On BMA Jack 2 Hole Flange
- Connector 2: Slide-On BMA Jack 2 Hole Flange
- Cable Type: RG316

Features

- Max Frequency 3 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 Jack 2 Hole Flange to Slide-On BMA Jack 2 Hole Flange Cable Using RG316 Coax PE3C4937

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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
VSWR			1.4:1	
Return Loss			15.56	dB
Velocity of Propagation		69		%
Operating Voltage (AC)			335	Vrms
Dielectric Withstanding Voltage (AC)			1,000	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	3	GHz
Insertion Loss (Typ.)	0.11	0.15	0.27	0.38	0.58	dB/ft
	0.36	0.49	0.89	1.25	1.9	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   0.75 in [19.05 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 Jack 2 Hole Flange	BMA Jack 2 Hole Flange
Impedance	50 Ohms	50 Ohms
Connection Method	Slide-On	Slide-On
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal

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

Environmental Specifications
Temperature
Operating Range   -55 to +125 deg C

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 Jack 2 Hole Flange to Slide-On BMA Jack 2 Hole Flange Cable Using
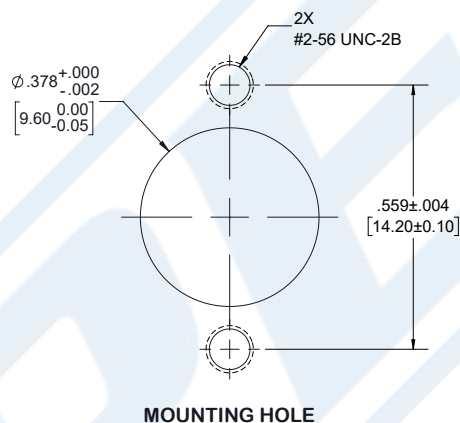RG316 Coax PE3C4937

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Typical Performance Data

2X
#2-56 UNC-2B

$\varnothing$ .378 $^{+.000}_{-.002}$
$\left[9.60 ^{0.00}_{-0.05}\right]$

.559±.004
[14.20±0.10]

MOUNTING HOLE

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 Slide-On BMA Jack 2 Hole Flange Cable Using RG316 Coax PE3C4937

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How to Order

Part Number Configuration: **PE3C4937**   **- xx**   **uu**

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

Example: PE3C4937-12 = 12 inches long cable
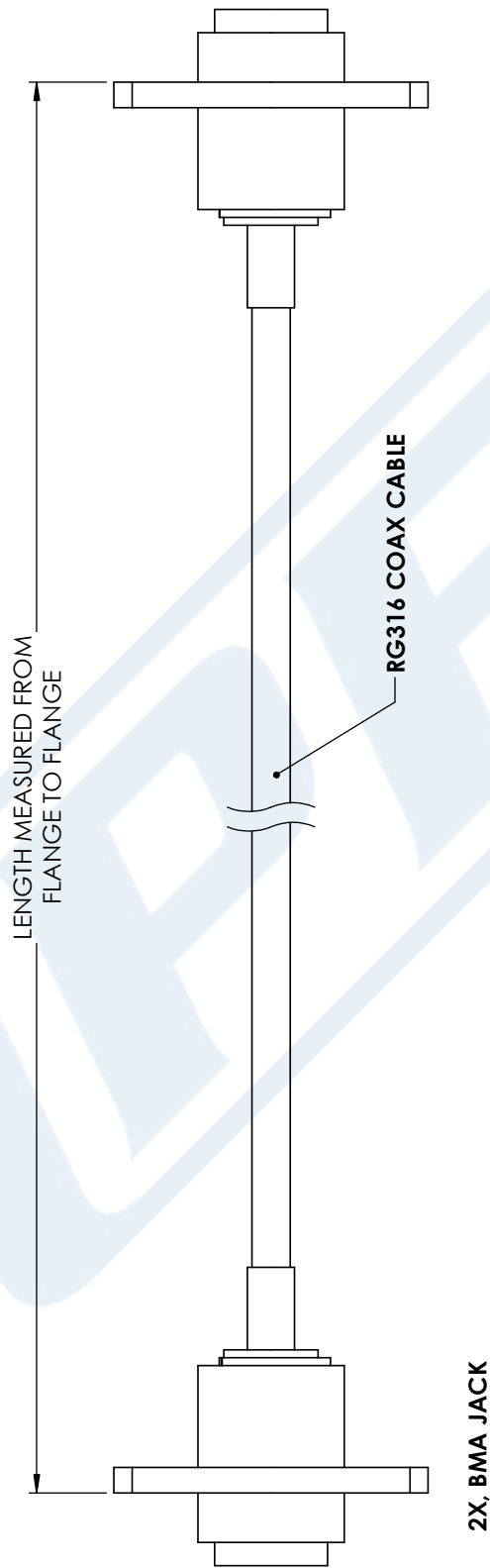   PE3C4937-100cm = 100 cm long cable

Slide-On BMA Jack 2 Hole Flange to Slide-On BMA Jack 2 Hole Flange 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.

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URL: https://www.pasternack.com/bma-jack-bma-jack-rg316u-cable-assembly-pe3c4937-p.aspx

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PE3C4937 CAD Drawing
Slide-On BMA Jack 2 Hole Flange to Slide-On BMA Jack
2 Hole Flange Cable Using RG316 Coax

RG316 COAX CABLE

LENGTH MEASURED FROM FLANGE TO FLANGE

2X, BMA JACK

DWG TITLE
PE3C4937

CAGE CODE 53919

STANDARD TOLERANCES
.X   ± 0.2
.XX   ± 0.01
.XXX ± 0.005
*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES