



## Slide-On BMA Plug Bulkhead to Slide-On BMA Jack 2 Hole Flange Cable Using RG405 Coax

### RF Cable Assemblies Technical Data Sheet

PE3C4877

#### Configuration

- Connector 1: Slide-On BMA Plug Bulkhead
- Connector 2: Slide-On BMA Jack 2 Hole Flange
- Cable Type: RG405

#### Features

- Max Frequency 22 GHz
- Good VSWR of 1.5:1
- 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 RG405 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.

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		22	GHz
VSWR			1.5:1	
Return Loss			15.56	dB
Dielectric Withstanding Voltage (AC)			1,000	Vrms

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 Slide-On BMA Jack 2 Hole Flange Cable Using RG405 Coax PE3C4877](#)



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#### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	22	GHz
Insertion Loss (Typ.)	0.15	0.22	0.46	0.75	1.25	dB/ft
	0.49	0.72	1.51	2.46	4.1	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 RG405  
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 0.05 in [1.27 mm]

#### Connectors

Description	Connector 1	Connector 2
Type	BMA Plug Bulkhead	BMA Jack 2 Hole Flange
Impedance	50 Ohms	50 Ohms
Connection Method	Slide-On	Slide-On
Contact Material and Plating	Bronze, Gold	Beryllium Copper, Gold
Contact Plating Specification	51.18µ in. minimum	51.18µ in. minimum
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating	Brass, Tri-Metal	Beryllium Copper, Gold
Outer Conductor Plating Specification	78.74µ in. minimum	
Body Material and Plating	Brass, Tri-Metal	Stainless Steel, Gold
Body Plating Specification	78.74µ in. minimum	19.68µ in. minimum
Hex Size	8 mm	

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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 +125 deg C

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

**Plotted and Other Data**

Notes:

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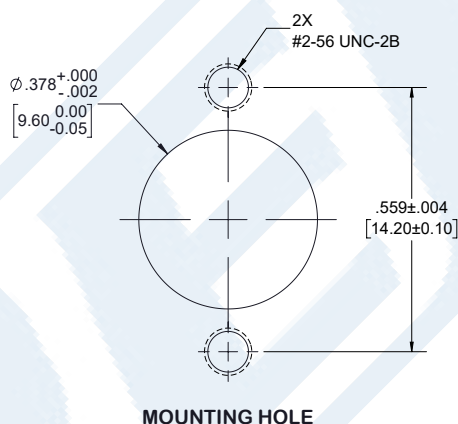
Slide-On BMA Plug Bulkhead to Slide-On BMA Jack  
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RF Cable Assemblies Technical Data Sheet

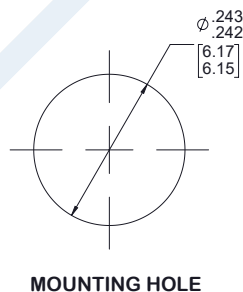
PE3C4877

Typical Performance Data

2 HOLE FLANGE CUTOUT



BMA PLUG BULKHEAD CUTOUT



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## Slide-On BMA Plug Bulkhead to Slide-On BMA Jack 2 Hole Flange Cable Using RG405 Coax

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#### How to Order

Part Number Configuration:

**PE3C4877**

- **xx**

**uu**

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

Example: PE3C4877-12 = 12 inches long cable  
PE3C4877-100cm = 100 cm long cable

Slide-On BMA Plug Bulkhead to Slide-On BMA Jack 2 Hole Flange Cable Using RG405 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.

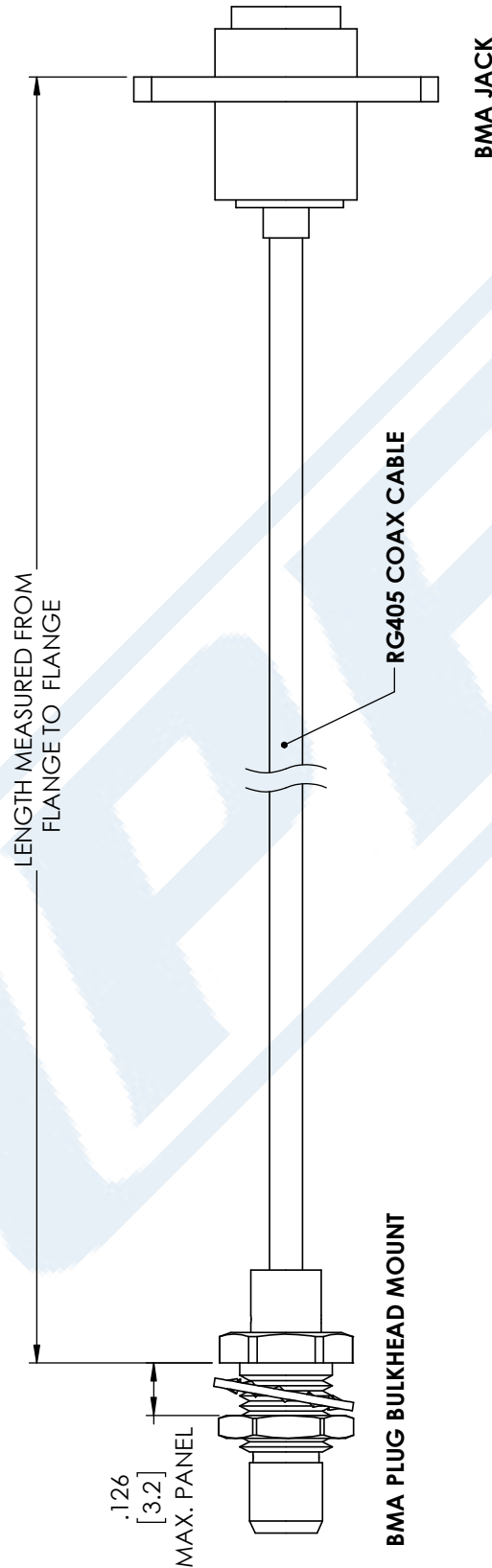
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Slide-On BMA Plug Bulkhead to Slide-On BMA Jack 2 Hole Flange Cable Using RG405 Coax PE3C4877](https://www.pasternack.com/bma-plug-bma-jack-rg405u-cable-assembly-pe3c4877-p.aspx)

URL: <https://www.pasternack.com/bma-plug-bma-jack-rg405u-cable-assembly-pe3c4877-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.

# PE3C4877 CAD Drawing

Slide-On BMA Plug Bulkhead to Slide-On BMA Jack  
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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

PE3C4877

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 12/18/17

SCALE N/A

SIZE A

CN2245