

## Slide-On BMA Plug Bulkhead to Slide-On BMA Plug Bulkhead Cable 12 Inch Length Using RG400 Coax



#### **RF Cable Assemblies Technical Data Sheet**

PE3C4950-12

#### Configuration

- Connector 1: Slide-On BMA Plug BulkheadConnector 2: Slide-On BMA Plug Bulkhead
- Cable Type: RG400

#### **Features**

- Max Frequency 12.4 GHz
- 70% Phase Velocity
- · Double Shielded
- 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 RG400/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.





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#### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		12.4	GHz
VSWR		pills.	1.4:1	
Return Loss			15.56	dB
Velocity of Propagation		70		%
Capacitance		32 [104.99]		pF/ft [pF/m]
Operating Voltage (AC)			350	Vrms

#### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	2.5	5	12.4	GHz
Insertion Loss (Typ.)	0.3	0.35	0.43	0.56	0.8	dB

#### **Mechanical Specifications**

#### **Cable Assembly**

Length\* 12 in [304.8 mm]
Diameter 0.315 in [8 mm]

#### Cable

Cable TypeRG400Impedance50 OhmsInner Conductor TypeStrandedInner Conductor Material and PlatingCopper, SilverDielectric TypePTFE

Dielectric Type

Number of Shields

2

Shield Frank (1)

Shield Layer 1 Silver Plated Copper Braid
Shield Layer 2 Silver Plated Copper Braid
Jacket Material FEP. Tan

Jacket Diameter 0.195 in [4.95 mm]

Repeated Minimum Bend Radius 1 in [25.4 mm]





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#### **Connectors**

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

Mechanical Specification Notes:

#### **Environmental Specifications**

**Temperature** 

Operating Range

-55 to +125 deg C

Compliance Certifications (see product page for current document)

#### **Plotted and Other Data**

Notes:



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



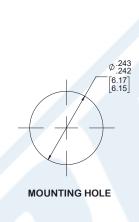




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**Typical Performance Data** 







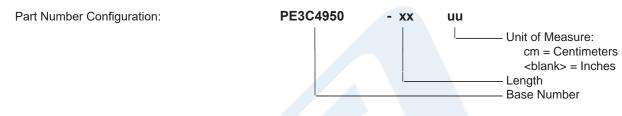
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#### **How to Order**



Example: PE3C4950-12 = 12 inches long cable PE3C4950-100cm = 100 cm long cable

Slide-On BMA Plug Bulkhead to Slide-On BMA Plug Bulkhead Cable 12 Inch Length Using RG400 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 Plug Bulkhead Cable 12 Inch Length Using RG400 Coax PE3C4950-12

URL: https://www.pasternack.com/bma-plug-bma-plug-rg400u-cable-assembly-pe3c4950-12-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.



**PE3C4950-12 CAD Drawing**Slide-On BMA Plug Bulkhead to Slide-On BMA Plug Bulkhead Cable 12 Inch Length Using RG400 Coax

