



RF Cable Assemblies Technical Data Sheet

PE3C4955-24

Configuration

· Connector 1: Slide-On BMA Plug Bulkhead

• Connector 2: SMA Male

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.

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 SMA Male Cable 24 Inch Length Using RG400 Coax PE3C4955-24

ISO 9001 : 2008 Registered





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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		12.4	GHz
VSWR			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.)	0.4	0.5	0.68	0.92	1.4	dB

Mechanical Specifications

Cable Assembly

Length* 24 in [609.6 mm] 0.315 in [8 mm] Diameter

Cable

Cable Type **RG400** Impedance 50 Ohms Inner Conductor Type Stranded Inner Conductor Material and Plating Copper, Silver Dielectric Type PTFE

Number of Shields 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	SMA Male	
Specification		MIL-STD-348A	
Impedance	50 Ohms	50 Ohms	
Connection Method	Slide-On		
Contact Material and Plating	Bronze, Gold	Brass, Gold	
Contact Plating Specification	51.18µ in. minimum	50 μin minimum	
Dielectric Type	PTFE	PTFE	
Outer Conductor Material and Plating	Brass, Tri-Metal		
Body Material and Plating	Brass, Tri-Metal	Brass, Nickel	
Body Plating Specification		100 μin minimum	
Coupling Nut Material and Plating		Brass, Nickel	
Coupling Nut Plating Specification		100 μin minimum	
Hex Size	8 mm	5/16 inch	
Torque		3 in-lbs [0.34 Nm]	

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:

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

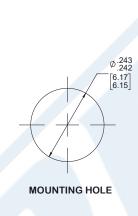




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Typical Performance Data



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How to Order



Example: PE3C4955-12 = 12 inches long cable PE3C4955-100cm = 100 cm long cable

Slide-On BMA Plug Bulkhead to SMA Male Cable 24 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.

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URL: https://www.pasternack.com/bma-plug-sma-male-rg400u-cable-assembly-pe3c4955-24-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.



PE3C4955-24 CAD DrawingSlide-On BMA Plug Bulkhead to SMA Male Cable 24 Inch Length Using RG400 Coax

