

© 2018 Pasternack Enterprises All Rights Reserved

Sales@Pasternack.com • Techsupport@Pasternack.com

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 Phone: (866) 727-8376 or (949) 261-1920 • Fax: (949) 261-7451

hts Reserved PE3

PE3C4953 REV 1.0

ISO 9001 : 2008 Registered

RF Cable Assemblies Technical Data Sheet

Configuration

- Connector 1: Slide-On BMA Plug Bulkhead
- Connector 2: Snap-On BMA Jack
- 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

Description

dav.

- General Purpose
- Laboratory Use BMA Cable RF
 Backplanes
- Blind Mate BMA Test

tion, you can specify your own custom BMA cable assembly using Pasternack's online Cable Creator.

- Rack and Panel
- Phased Array Interconnects

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 applica-

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

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 Snap-On BMA Jack Cable Using RG400 Coax PE3C4953

High Speed Switching Networks



PE3C4953







RF Cable Assemblies Technical Data Sheet

PE3C4953

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.)	0.1	0.15	0.24	0.36	0.6	dB/ft
	0.33	0.49	0.79	1.18	1.97	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

Cable

Cable Type Impedance Inner Conductor Type Inner Conductor Material and Plating Dielectric Type Number of Shields Shield Layer 1 Shield Layer 2 Jacket Material Jacket Diameter

Repeated Minimum Bend Radius

0.35 in [8.89 mm]

RG400 50 Ohms Stranded Copper, Silver PTFE 2 Silver Plated Copper Braid Silver Plated Copper Braid FEP, Tan 0.195 in [4.95 mm]

1 in [25.4 mm]

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 Snap-On BMA Jack Cable Using RG400 Coax PE3C4953

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451 Sales@Pasternack.com • Techsupport@Pasternack.com







RF Cable Assemblies Technical Data Sheet

PE3C4953

Connectors

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

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:

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 Snap-On BMA Jack Cable Using RG400 Coax PE3C4953

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451 Sales@Pasternack.com • Techsupport@Pasternack.com

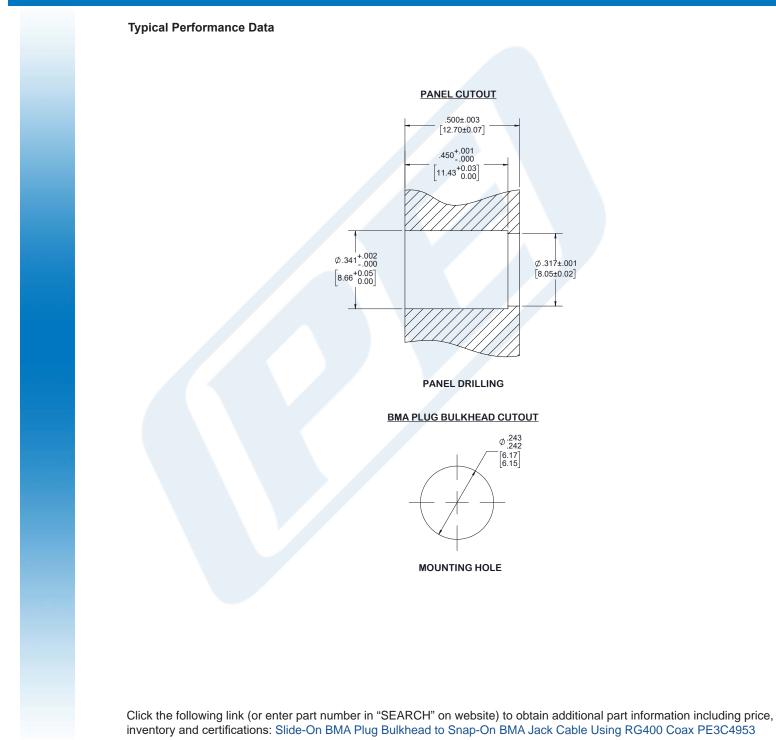




RF Cable Assemblies Technical Data Sheet



PE3C4953



Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451 Sales@Pasternack.com • Techsupport@Pasternack.com



4



RF Cable Assemblies Technical Data Sheet

PE3C4953

)) ERNA

How to Order PE3C4953 Part Number Configuration: - XX uu Unit of Measure: cm = Centimeters <blank> = Inches Length Base Number Example: PE3C4953-12 = 12 inches long cable PE3C4953-100cm = 100 cm long cable Slide-On BMA Plug Bulkhead to Snap-On BMA Jack Cable 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 Snap-On BMA Jack Cable Using RG400 Coax PE3C4953 URL: https://www.pasternack.com/bma-plug-bma-jack-rg400u-cable-assembly-pe3c4953-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.

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451 Sales@Pasternack.com • Techsupport@Pasternack.com

PE3C4953 CAD Drawing Slide-On BMA Plug Bulkhead to Snap-On BMA Jack Cable Using RG400 Coax

