

RF Cable Assemblies Technical Data Sheet

Configuration

- Connector 1: Snap-On BMA Jack
- Connector 2: N Male
- Cable Type: RG316

Features

- Max Frequency 1,000 MHz
- 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.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		1,000	MHz
VSWR			1.4:1	
Return Loss			15.56	dB
Velocity of Propagation		69		%
Operating Voltage (AC)			250	Vrms
Jacket Spark			2,000	Vrms

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Snap-On BMA Jack to N Male Cable 12 Inch Length Using RG316 Coax PE3C4944-12

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





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Specifications by Frequency Description **F1 F2** F3 **F4** F5 Units 100 MHz Frequency 50 250 500 1,000 Insertion Loss (Typ.) 0.28 0.31 0.35 0.47 0.58 dB **Mechanical Specifications Cable Assembly** Length* 12 in [304.8 mm] Diameter 0.8 in [20.32 mm] Cable RG316 Cable Type Impedance 50 Ohms Inner Conductor Type Stranded Inner Conductor Material and Plating Copper Clad Steel, Silver **Dielectric Type** PTFE Number of Shields Silver Plated Copper Braid Shield Layer 1 Jacket Material FEP. Tan Jacket Diameter 0.098 in [2.49 mm] Connectors Description **Connector 1 Connector 2** BMA Jack N Male Type Specification MIL-STD-348A Impedance 50 Ohms 50 Ohms **Connection Method** Snap-On

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Beryllium Copper, Gold

51.18µ in. minimum

PTFE

Beryllium Copper, Gold

Passivated Stainless Steel

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Contact Material and Plating

Contact Plating Specification

Body Material and Plating

Body Plating Specification

Outer Conductor Material and Plating

Coupling Nut Material and Plating

Coupling Nut Plating Specification

Dielectric Type

Brass, Gold

30 µin minimum

PTFE

Brass, Nickel

100 µin minimum

Brass, Nickel

100 µin minimum



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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 +165 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data Notes:

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Typical Performance Data .500±.003 [12.70±0.07] .450+.001 11.43+0.03 Ø.341^{+.002} -.000 Ø.317±.001 8.66^{+0.05} [8.05±0.02] PANEL DRILLING Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Snap-On BMA Jack to N Male Cable 12 Inch Length Using RG316 Coax PE3C4944-12

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4



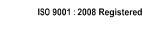




PE3C4944-12

How to Order Part Number Configuration: PE3C4944 - XX uu Unit of Measure: cm = Centimeters <blank> = Inches Length Base Number Example: PE3C4944-12 = 12 inches long cable PE3C4944-100cm = 100 cm long cable Snap-On BMA Jack to N Male Cable 12 Inch Length 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. Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Snap-On BMA Jack to N Male Cable 12 Inch Length Using RG316 Coax PE3C4944-12 URL: https://www.pasternack.com/bma-jack-n-male-rg316u-cable-assembly-pe3c4944-12-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.

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PE3C4944-12 CAD Drawing Snap-On BMA Jack to N Male Cable 12 Inch Length Using RG316 Coax

