

### Snap-On BMA Jack to SMA Male Cable Using RG316 Coax

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

#### Configuration

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

#### Features

- Max Frequency 3 GHz
- 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		3	GHz
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 SMA Male Cable Using RG316 Coax PE3C4941

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
Frequency	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Typ.)	0.11	0.15	0.27	0.38	0.58	dB/ft
	0.36	0.49	0.89	1.25	1.9	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 Jacket Material Jacket Diameter 0.35 in [8.89 mm]

RG316 50 Ohms Stranded Copper Clad Steel, Silver PTFE 1 Silver Plated Copper Braid FEP, Tan 0.098 in [2.49 mm]

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#### Connectors

Description	Connector 1	Connector 2 SMA Male	
Туре	BMA Jack		
Specification		MIL-STD-348A	
Impedance	50 Ohms 50 Ohm		
Connection Method	Snap-On		
Contact Material and Plating	Beryllium Copper, Gold	Brass, Gold	
Contact Plating Specification	51.18µ in. minimum	30 µin minimum	
Dielectric Type	PTFE	PTFE	
Outer Conductor Material and Plating	Beryllium Copper, Gold		
Body Material and Plating	Passivated Stainless Steel	Brass, Nickel	
Body Plating Specification		100 µin minimum	
Coupling Nut Material and Plating		Brass, Nickel	
Coupling Nut Plating Specification		100 µin minimum	
Hex Size		5/16 inch	
Torque		3 in-lbs [0.34 Nm]	

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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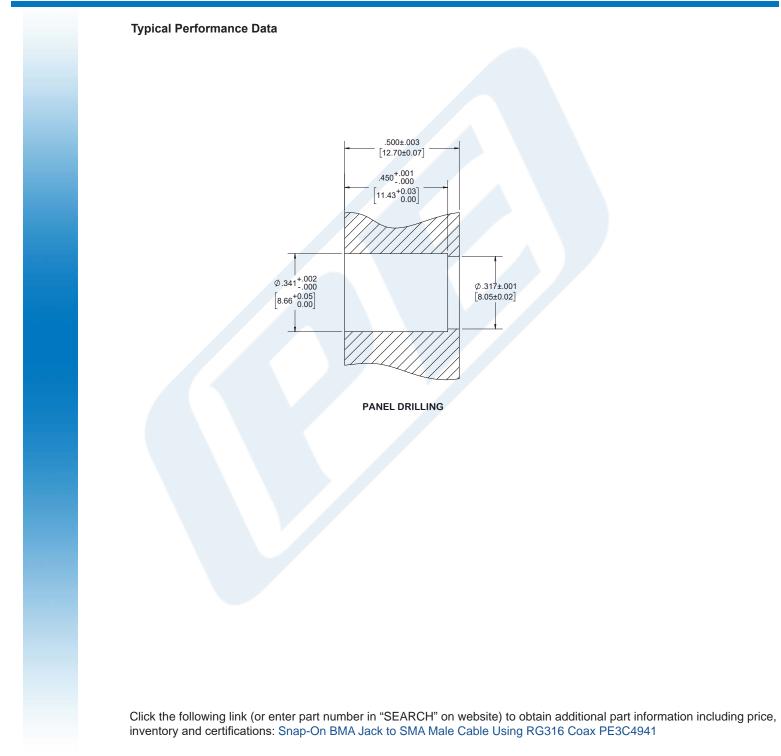


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## How to Order PE3C4941 Part Number Configuration: - XX uu Unit of Measure: cm = Centimeters <blank> = Inches Length Base Number Example: PE3C4941-12 = 12 inches long cable PE3C4941-100cm = 100 cm long cable Snap-On BMA Jack to SMA Male Cable Using 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 SMA Male Cable Using RG316 Coax PE3C4941 URL: https://www.pasternack.com/bma-jack-sma-male-rg316u-cable-assembly-pe3c4941-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.



# PE3C4941 CAD Drawing Snap-On BMA Jack to SMA Male Cable Using RG316 Coax

