Snap-On BMA Jack to BNC Male Cable
6 Inch Length Using RG400 Coax

RF Cable Assemblies Technical Data Sheet   PE3C4964-6

Configuration
- Connector 1: Snap-On BMA Jack
- Connector 2: BNC Male
- Cable Type: RG400

Features
- Max Frequency 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: Snap-On BMA Jack to BNC Male Cable 6 Inch Length Using RG400 Coax PE3C4964-6

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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		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	0.1	0.25	0.5	1	4	GHz
Insertion Loss (Typ.)	0.21	0.23	0.25	0.28	0.36	dB

Mechanical Specifications

Cable Assembly
Length*   6 in [152.4 mm]
Diameter   0.571 in [14.5 mm]

Cable
Cable Type   RG400
Impedance   50 Ohms
Inner Conductor Type   Stranded
Inner Conductor Material and Plating Copper, Silver
Dielectric Type   PTFE
Number of Shields   2
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
Type	BMA Jack	BNC Male
Specification		MIL-STD-348A
Impedance	50 Ohms	50 Ohms
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
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

Mechanical Specification Notes:
*All cable assemblies have a length tolerance of 1.5% or ± 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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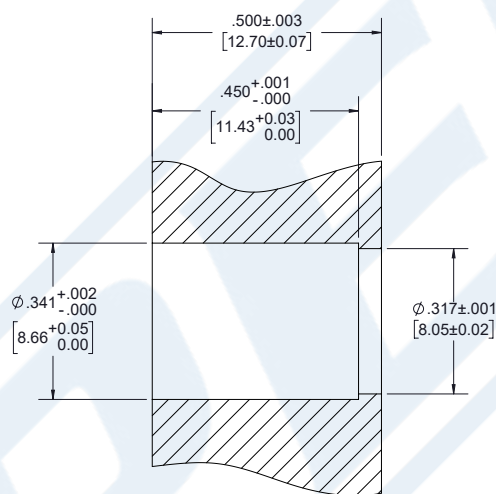
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RF Cable Assemblies Technical Data Sheet
PE3C4964-6

Typical Performance Data

.500±.003
[12.70±0.07]

.450 +.001 -.000
[11.43 +0.03 0.00]

∅ .341 +.002 -.000
[8.66 +0.05 0.00]

∅ .317±.001
[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 BNC Male Cable 6 Inch Length Using RG400 Coax PE3C4964-6

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PE3C4964-6 REV 1.0

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How to Order

Part Number Configuration: **PE3C4964**   **- xx**   **uu**

Unit of Measure:
cm = Centimeters
<blank> = Inches
Length
Base Number

Example: PE3C4964-12 = 12 inches long cable
PE3C4964-100cm = 100 cm long cable

Snap-On BMA Jack to BNC Male Cable 6 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.
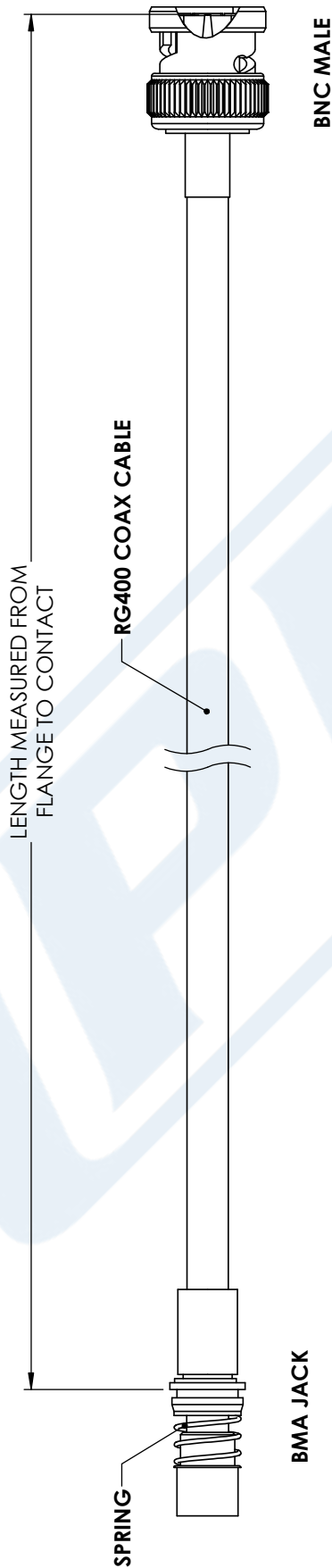
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Snap-On BMA Jack to BNC Male Cable 6 Inch Length Using RG400 Coax PE3C4964-6

URL: https://www.pasternack.com/bma-jack-bnc-male-rg400u-cable-assembly-pe3c4964-6-p.aspx

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PE3C4964-6 CAD Drawing
Snap-On BMA Jack to BNC Male Cable 6 Inch Length Using RG400 Coax

BNC MALE

RG400 COAX CABLE

LENGTH MEASURED FROM
FLANGE TO CONTACT

BMA JACK

SPRING

STANDARD TOLERANCES
.X ±0.2
.XX ±0.01
.XXX ±0.005

*STANDARD TOLERANCES APPLY
ONLY TO DIMENSIONS IN INCHES

DWG TITLE
PE3C4964

CAGE CODE 53919

NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].

CAD FILE 01/03/18

SCALE N/A

SIZE A

CN2245

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