



Snap-On BMA Jack to BNC Male Cable  
36 Inch Length Using LMR-100 Coax

RF Cable Assemblies Technical Data Sheet

PE3C4934-36

### Configuration

- Connector 1: Snap-On BMA Jack
- Connector 2: BNC Male
- Cable Type: LMR-100A

### Features

- Max Frequency 3 GHz
- Shielding Effectivity > 90 dB
- 66% Phase Velocity
- Double Shielded
- PVC 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 LMR-100A-PVC 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 36 Inch Length Using LMR-100 Coax PE3C4934-36](#)



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**Electrical Specifications**

| Description                   | Minimum | Typical       | Maximum | Units           |
|-------------------------------|---------|---------------|---------|-----------------|
| Frequency Range               | DC      |               | 3       | GHz             |
| VSWR                          |         |               | 1.4:1   |                 |
| Return Loss                   |         |               | 15.56   | dB              |
| Velocity of Propagation       |         | 66            |         | %               |
| RF Shielding                  | 90      |               |         | dB              |
| Group Delay                   |         | 1.54 [5.05]   |         | ns/ft [ns/m]    |
| Capacitance                   |         | 30.8 [101.05] |         | pF/ft [pF/m]    |
| Inductance                    |         | 0.077 [0.25]  |         | uH/ft [uH/m]    |
| DC Resistance Inner Conductor |         | 81 [265.75]   |         | Ω/1000ft [Ω/Km] |
| DC Resistance Outer Conductor |         | 9.5 [31.17]   |         | Ω/1000ft [Ω/Km] |
| Jacket Spark                  |         |               | 2,000   | Vrms            |

**Specifications by Frequency**

| Description           | F1   | F2   | F3   | F4   | F5   | Units |
|-----------------------|------|------|------|------|------|-------|
| Frequency             | 0.1  | 0.25 | 0.5  | 1    | 3    | GHz   |
| Insertion Loss (Typ.) | 0.41 | 0.56 | 0.68 | 0.92 | 1.49 | dB    |

**Mechanical Specifications**

**Cable Assembly**

|          |                    |
|----------|--------------------|
| Length*  | 36 in [914.4 mm]   |
| Diameter | 0.57 in [14.48 mm] |

**Cable**

|                                      |                     |
|--------------------------------------|---------------------|
| Cable Type                           | LMR-100A            |
| Impedance                            | 50 Ohms             |
| Inner Conductor Type                 | Solid               |
| Inner Conductor Material and Plating | Copper Clad Steel   |
| Dielectric Type                      | PE                  |
| Number of Shields                    | 2                   |
| Shield Layer 1                       | Aluminum Tape       |
| Shield Layer 2                       | Tinned Copper Braid |
| Jacket Material                      | PVC, Black          |
| Jacket Diameter                      | 0.11 in [2.79 mm]   |

|                              |                   |
|------------------------------|-------------------|
| One Time Minimum Bend Radius | 0.25 in [6.35 mm] |
|------------------------------|-------------------|

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|                              |                        |
|------------------------------|------------------------|
| Repeated Minimum Bend Radius | 1 in [25.4 mm]         |
| Bending Moment               | 0.1 lbs-ft [0.14 N-m]  |
| Flat Plate Crush             | 10 lbs/in [0.18 Kg/mm] |
| Tensile Strength             | 15 lbs [6.8 Kg]        |

#### 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         | 50 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 |

#### 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

-40 to +85 deg C

#### Compliance Certifications (see [product page](#) for current document)

#### Plotted and Other Data

Notes:

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Typical Performance Data



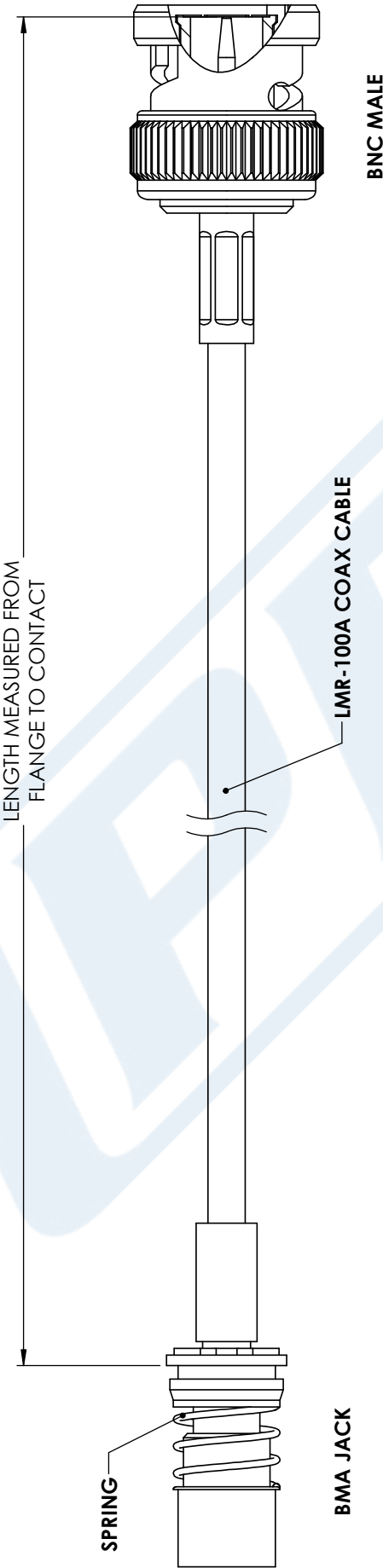
PANEL DRILLING

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PE3C4934-36 CAD Drawing

Snap-On BMA Jack to BNC Male Cable 36 Inch Length Using LMR-100 Coax



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

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES



**PASTERNAK®**  
THE ENGINEER'S RF SOURCE

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|           |          |
|-----------|----------|
| DWG TITLE | PE3C4934 |
| CAGE CODE | 53919    |

|   |          |          |       |     |      |        |
|---|----------|----------|-------|-----|------|--------|
| NOTES:<br>1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.<br>2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.<br>3. DIMENSIONS ARE IN INCHES [mm]. | CAD FILE | 12/29/17 | SCALE | N/A | SIZE | A      |
|   |          |          |       |     |      | CN2245 |