



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

RF Cable Assemblies Technical Data Sheet

PE3C4934-12

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.) | 0.27 | 0.32 | 0.36 | 0.44 | 0.63 | dB |

Mechanical Specifications

Cable Assembly

| | |
|----------|--------------------|
| Length* | 12 in [304.8 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] |
|------------------------------|-------------------|

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 12 Inch Length Using LMR-100 Coax PE3C4934-12](#)



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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:

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 12 Inch Length Using LMR-100 Coax PE3C4934-12](#)

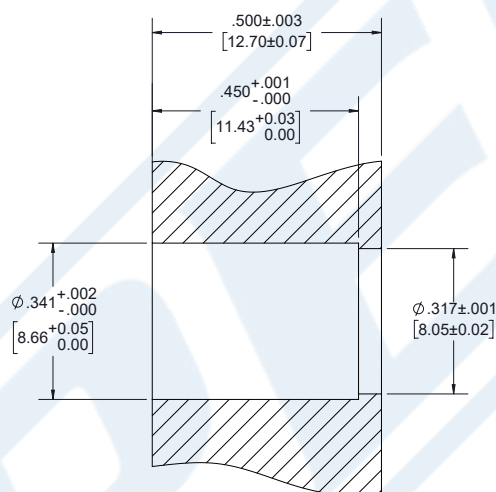


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Typical Performance Data

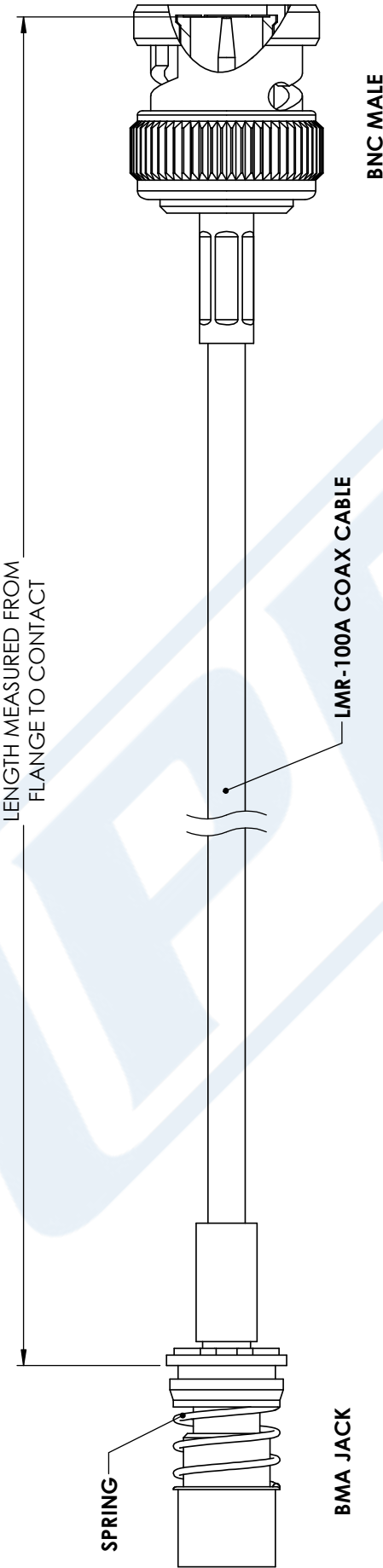


PANEL DRILLING

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 12 Inch Length Using LMR-100 Coax PE3C4934-12](#)

PE3C4934-12 CAD Drawing

Snap-On BMA Jack to BNC Male Cable 12 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: 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 | 12/29/17 | SCALE | N/A | SIZE | A |
| CN2245 | | | | | | |