

## SSMB Plug Right Angle to SMA Male Low Loss Cable Using LMR-100 Coax



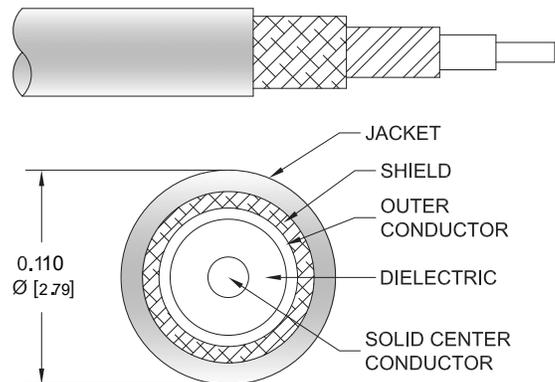
### PE3W01171

#### Configuration

- Connector 1: SSMB Plug Right Angle
- Connector 2: SMA Male
- Cable Type: LMR-100A
- Coax Flex Type: Flexible

#### Features

- Shielding Effectivity > 90 dB
- 66% Phase Velocity
- Double Shielded
- PVC Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W01171 SSMB plug right angle to SMA male cable using LMR-100 coax is part of our full line of RF components available for same-day shipping. Pasternack's flexible RF cable assemblies are ideal for applications where tight bends and flexure are required. This Pasternack SSMB to SMA cable assembly has a plug to male gender configuration with 50 ohm flexible LMR-100A coax. The right angle SSMB interface on the LMR-100A cable allows for easier connections in tight spaces. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness of better than 90 dB.

Custom versions of most RF cable assemblies can be built and shipped same day. Custom cable assembly lengths can be obtained by specifying the desired length on the web site at time of order or by contacting a sales representative. Other available RF cable assembly value added services include connector orientation or clocking, heat shrink booting and custom labeling. RF testing can also be performed to document the electrical performance of your cable assembly.

#### Electrical Specifications

| Description                   | Minimum | Typical       | Maximum | Units                 |
|-------------------------------|---------|---------------|---------|-----------------------|
| 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]   |         | Ohms/1000ft [Ohms/Km] |
| DC Resistance Outer Conductor |         | 9.5 [31.17]   |         | Ohms/1000ft [Ohms/Km] |

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#### Electrical Specifications

| Description  | Minimum | Typical | Maximum | Units |
|--------------|---------|---------|---------|-------|
| Jacket Spark |         |         | 2,000   | Vrms  |

#### Mechanical Specifications

##### Cable Assembly

|                |                     |
|----------------|---------------------|
| Width/Diameter | 0.5 in [12.7 mm]    |
| Weight         | 0.024 lbs [10.89 g] |

##### 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]      |
| 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                               | SSMB Plug Right Angle | SMA Male        |
| Specification                      | MIL-STD-348           |                 |
| Impedance                          | 50 Ohms               | 50 Ohms         |
| Configuration                      | Right Angle           | Straight        |
| Contact Material and Plating       | Gold                  | Brass, Gold     |
| Contact Plating Specification      | MIL-G-45204           | 15 µin minimum  |
| Dielectric Type                    | PTFE                  | PTFE            |
| Body Material and Plating          | Brass, Gold           | Brass, Nickel   |
| Body Plating Specification         | MIL-G-45204           | 200 µin minimum |
| Coupling Nut Material and Plating  |                       | Brass, Nickel   |
| Coupling Nut Plating Specification |                       | 200 µin minimum |

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#### Environmental Specifications

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

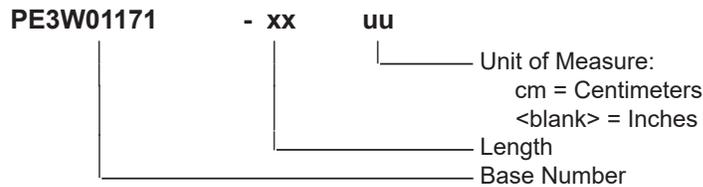
#### Plotted and Other Data

Notes:

#### Typical Performance Data

#### How to Order

Part Number Configuration:



Example: PE3W01171-12 = 12 inches long cable  
PE3W01171-100cm = 100 cm long cable

SSMB Plug Right Angle to SMA Male Low Loss Cable Using LMR-100 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.

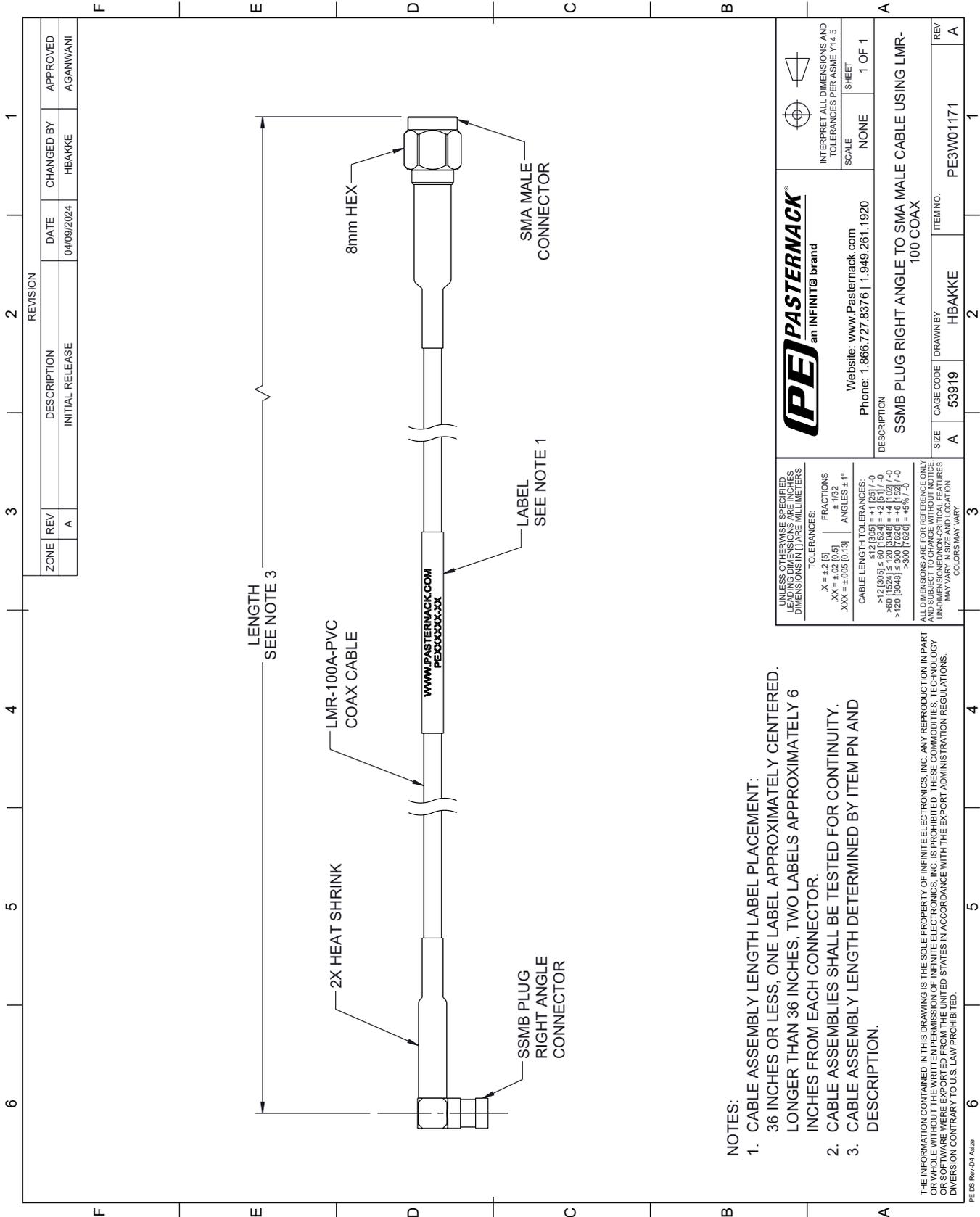
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SSMB Plug Right Angle to SMA Male Low Loss Cable Using LMR-100 Coax PE3W01171](#)

URL: <https://www.pasternack.com/ssmb-plug-right-angle-to-sma-male-low-loss-cable-using-lmr-100-pe3w01171-p.aspx>

The information contained within 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 Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

# PE3W01171 CAD Drawing

SSMB Plug Right Angle to SMA Male Low Loss Cable Using LMR-100 Coax



|   |                 |   |                    |
|---|-----------------|---|--------------------|
| <b>PE PASTERNAK</b><br>an INFINIT® brand  |                 | INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5<br>SCALE NONE<br>SHEET 1 OF 1  |                    |
| Website: www.Pasternack.com<br>Phone: 1.866.727.8376   1.949.261.1920   |                 | DESCRIPTION<br><b>SSMB PLUG RIGHT ANGLE TO SMA MALE CABLE USING LMR-100 COAX</b>  |                    |
| SIZE A  | CAGE CODE 53919 | DRAWN BY HBAKKE   | ITEM NO. PE3W01171 |
| UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES AND TRAILING DIMENSIONS ARE IN MILLIMETERS.  |                 | ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES AND TRAILING DIMENSIONS ARE IN MILLIMETERS. |                    |
| TOLERANCES:<br>.X = ±.2 [5]<br>.XX = ±.02 [0.5]<br>.XXX = ±.005 [0.13]  |                 | FRACTIONS ± 1/32<br>ANGLES ± 1°   |                    |
| CABLE LENGTH TOLERANCES:<br>>12 [305] ≤ 60 [1524] = ±.1 [2.5] / -0<br>>60 [1524] ≤ 120 [3048] = ±.4 [10.2] / -0<br>>120 [3048] ≤ 300 [7620] = ±.6 [15.2] / -0 |                 | UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES AND TRAILING DIMENSIONS ARE IN MILLIMETERS.                                |                    |
| UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES AND TRAILING DIMENSIONS ARE IN MILLIMETERS.  |                 | UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES AND TRAILING DIMENSIONS ARE IN MILLIMETERS.                                |                    |

- NOTES:
- CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED, LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.
  - CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
  - CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.

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PE DS Rev-D4 Add2