



## SMA Male Right Angle to SMA Male Right Angle Low Loss Cable Using LMR-200 Coax

### TECHNICAL DATA SHEET

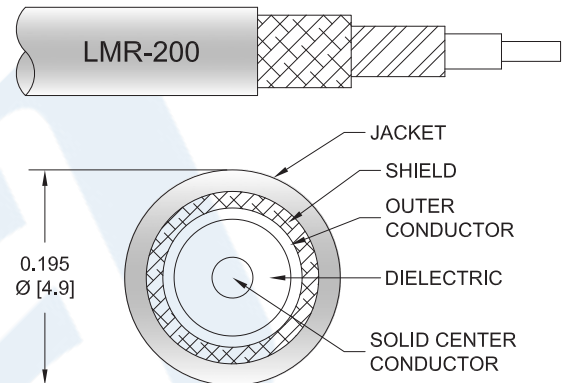
**PE3C1905**

#### Configuration

- Connector 1: SMA Male Right Angle
- Connector 2: SMA Male Right Angle
- Cable Type: LMR-200
- Coax Flex Type: Flexible

#### Features

- Max Frequency 6 GHz
- Shielding Effectivity > 90 dB
- 83% Phase Velocity
- Double Shielded
- PE Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3C1905 SMA male right angle to SMA male right angle cable using LMR-200 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 SMA to SMA cable assembly has a male to male gender configuration with 50 ohm flexible LMR-200 coax. The PE3C1905 SMA male to SMA male cable assembly operates to 6 GHz. The right angle SMA interfaces on the LMR-200 cable allow 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male Right Angle to SMA Male Right Angle Low Loss Cable Using LMR-200 Coax PE3C1905](#)



## SMA Male Right Angle to SMA Male Right Angle Low Loss Cable Using LMR-200 Coax

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**PE3C1905**

#### Electrical Specifications

| Description                   | Minimum | Typical      | Maximum | Units                            |
|-------------------------------|---------|--------------|---------|----------------------------------|
| Frequency Range               | DC      |              | 6       | GHz                              |
| VSWR                          |         |              | 1.4:1   |                                  |
| Velocity of Propagation       |         | 83           |         | %                                |
| RF Shielding                  | 90      |              |         | dB                               |
| Group Delay                   |         | 1.22 [4]     |         | ns/ft [ns/m]                     |
| Capacitance                   |         | 24.5 [80.38] |         | pF/ft [pF/m]                     |
| Inductance                    |         | 0.061 [0.2]  |         | uH/ft [uH/m]                     |
| DC Resistance Inner Conductor |         | 5.36 [17.59] |         | $\Omega$ /1000ft [ $\Omega$ /Km] |
| DC Resistance Outer Conductor |         | 4.9 [16.08]  |         | $\Omega$ /1000ft [ $\Omega$ /Km] |
| Jacket Spark                  |         |              | 3,000   | Vrms                             |

#### Specifications by Frequency

| Part Number | Length                   | Description           | F1   | F2   | F3   | F4   | F5   | Units | Weight (lbs) |
|-------------|--------------------------|-----------------------|------|------|------|------|------|-------|--------------|
|             |                          | Frequency             | 250  | 500  | 1000 | 2500 | 6000 | MHz   |              |
| PE3C1905    | Custom Lengths Available | Insertion Loss (Typ.) | 0.05 | 0.07 | 0.1  | 0.17 | 0.26 | dB/ft |              |
|             |                          |                       | 0.17 | 0.24 | 0.35 | 0.56 | 0.87 | dB/m  |              |
| PE3C1905-24 | 24 inch                  | Insertion Loss (Typ.) | 0.51 | 0.55 | 0.61 | 0.74 | 0.93 | dB    | 0.094        |
| PE3C1905-36 | 36 inch                  | Insertion Loss (Typ.) | 0.56 | 0.62 | 0.72 | 0.91 | 1.2  | dB    | 0.118        |
| PE3C1905-48 | 48 inch                  | Insertion Loss (Typ.) | 0.61 | 0.7  | 0.82 | 1.08 | 1.46 | dB    | 0.142        |
| PE3C1905-60 | 60 inch                  | Insertion Loss (Typ.) | 0.66 | 0.77 | 0.92 | 1.25 | 1.72 | dB    | 0.166        |
| PE3C1905-72 | 72 inch                  | Insertion Loss (Typ.) | 0.71 | 0.84 | 1.03 | 1.42 | 1.99 | dB    | 0.19         |

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

|                             |              |
|-----------------------------|--------------|
| Loss due to Connector 1:    | 0.2 dB       |
| Loss due to Connector 2:    | 0.2 dB       |
| Base Weight:                | 0.07 pounds  |
| Additional Weight per Inch: | 0.002 pounds |

#### Mechanical Specifications

##### Cable Assembly

Weight 0.07 lbs [31.75 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male Right Angle to SMA Male Right Angle Low Loss Cable Using LMR-200 Coax PE3C1905](#)



SMA Male Right Angle to SMA Male Right Angle  
Low Loss Cable Using LMR-200 Coax

**TECHNICAL DATA SHEET**

**PE3C1905**

**Cable**

|                                      |                        |
|--------------------------------------|------------------------|
| Cable Type                           | LMR-200                |
| Impedance                            | 50 Ohms                |
| Inner Conductor Type                 | Solid                  |
| Inner Conductor Material and Plating | Copper                 |
| Dielectric Type                      | PE (F)                 |
| Number of Shields                    | 2                      |
| Shield Layer 1                       | Aluminum Tape          |
| Shield Layer 2                       | Tinned Copper Braid    |
| Jacket Material                      | PE, Black              |
| Jacket Diameter                      | 0.195 in [4.95 mm]     |
| One Time Minimum Bend Radius         | 0.5 in [12.7 mm]       |
| Repeated Minimum Bend Radius         | 2 in [50.8 mm]         |
| Bending Moment                       | 0.2 lbs-ft [0.27 N-m]  |
| Flat Plate Crush                     | 15 lbs/in [0.27 Kg/mm] |
| Tensile Strength                     | 40 lbs [18.14 Kg]      |

**Connectors**

| Description                       | Connector 1                   | Connector 2                   |
|-----------------------------------|-------------------------------|-------------------------------|
| Type                              | SMA Male Right Angle Threaded | SMA Male Right Angle Threaded |
| Impedance                         | 50 Ohms                       | 50 Ohms                       |
| Contact Material and Plating      | Brass, Gold                   | Brass, Gold                   |
| Dielectric Type                   | PTFE                          | PTFE                          |
| Body Material and Plating         | Brass, Gold                   | Brass, Gold                   |
| Coupling Nut Material and Plating | Brass, Gold                   | Brass, Gold                   |

**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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## SMA Male Right Angle to SMA Male Right Angle Low Loss Cable Using LMR-200 Coax

### TECHNICAL DATA SHEET

**PE3C1905**

#### How to Order

Part Number Configuration:

**PE3C1905**

- **xx**

**uu**

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

Example: PE3C1905-12 = 12 inches long cable  
PE3C1905-100cm = 100 cm long cable

SMA Male Right Angle to SMA Male Right Angle Low Loss Cable Using LMR-200 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: [SMA Male Right Angle to SMA Male Right Angle Low Loss Cable Using LMR-200 Coax PE3C1905](#)

URL: <https://www.pasternack.com/sma-male-right-angle-to-sma-male-low-loss-cable-using-lmr-200-pe3c1905-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.

F

E

D

C

B

A

F

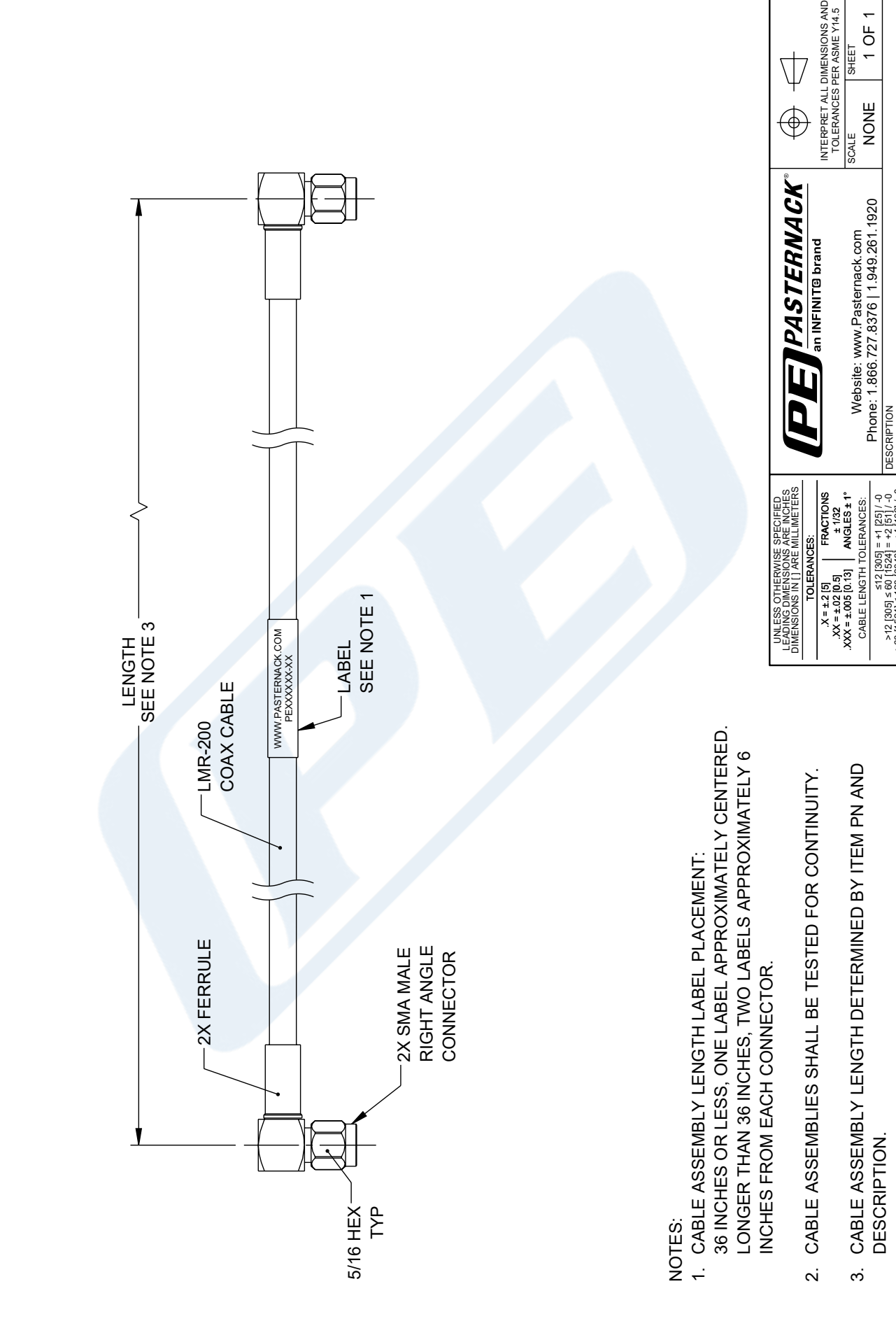
E

D

C

B

A



LENGTH  
SEE NOTE 3

LMR-200  
COAX CABLE

2X FERRULE

2X SMA MALE  
RIGHT ANGLE  
CONNECTOR

5/16 HEX  
TYP

WWW.PASTERNAK.COM  
PEXXXXXX-XX

LABEL

SEE NOTE 1

NOTES:

1. 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.
2. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
3. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND  
DESCRIPTION.

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|                                                                                                                                                                           |                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| UNLESS OTHERWISE SPECIFIED<br>LEADING DIMENSIONS ARE IN INCHES<br>DIMENSIONS IN [ ] ARE MILLIMETERS                                                                       |                          |
| TOLERANCES:                                                                                                                                                               |                          |
| .X = ±.02 [0.5]                                                                                                                                                           | FRACTIONS<br>± 1/32      |
| .XX = ±.02 [0.5]                                                                                                                                                          | ANGLES ± 1°              |
| .XXX = ±.005 [0.13]                                                                                                                                                       | CABLE LENGTH TOLERANCES: |
| ≤12 [305] = ±1 [25] / -0                                                                                                                                                  |                          |
| >12 [305] ≤ 60 [1524] = +2 [51] / -0                                                                                                                                      |                          |
| >60 [1524] ≤ 120 [3048] = +4 [102] / -0                                                                                                                                   |                          |
| >120 [3048] = +5 [127] / -0                                                                                                                                               |                          |
| >300 [7620] = +5/8 [15.875] / -0                                                                                                                                          |                          |
| ALL DIMENSIONS ARE FOR REFERENCE ONLY<br>AND SUBJECT TO CHANGE WITHOUT NOTICE<br>UN-DIMENSIONED NON-CRITICAL FEATURES<br>MAY VARY IN SIZE AND LOCATION<br>COLORS MAY VARY |                          |

|                                                                                                                                        |                    |                       |                                                                                                                                                                                    |          |                                                           |  |
|----------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------------------------------------------------|--|
| <div> <b>PASTERNAK®</b><br/>an INFINIT@ brand</div> |                    |                       | <div> </div> |          | INTERPRET ALL DIMENSIONS AND<br>TOLERANCES PER ASME Y14.5 |  |
| Website: <a href="http://www.Pasternack.com">www.Pasternack.com</a><br>Phone: 1.866.727.8376   1.949.261.1920                          |                    |                       | SCALE<br>NONE                                                                                                                                                                      |          | SHEET<br>1 OF 1                                           |  |
| DESCRIPTION<br>SMA MALE RIGHT ANGLE TO SMA MALE RIGHT ANGLE LOW<br>LOSS CABLE USING LMR-200 COAX                                       |                    |                       |                                                                                                                                                                                    |          |                                                           |  |
| SIZE<br>A                                                                                                                              | CAGE CODE<br>53919 | DRAWN BY<br>KGGLEBOVA | ITEM NO.                                                                                                                                                                           | REV<br>A | PE3C1905                                                  |  |