

SMA Male Right Angle to SMA Male  
Right Angle Cable Using LMR-195 Coax with  
HeatShrink and 180 Deg. Clock, LF Solder, RoHS

**TECHNICAL DATA SHEET**

**PE3C0382/SP1**

**Configuration**

- Connector 1: SMA Male Right Angle
- Connector 2: SMA Male Right Angle
- Cable Type: LMR-195
- Coax Flex Type: Flexible

**Features**

- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 80% Phase Velocity
- Double Shielded
- PE Jacket

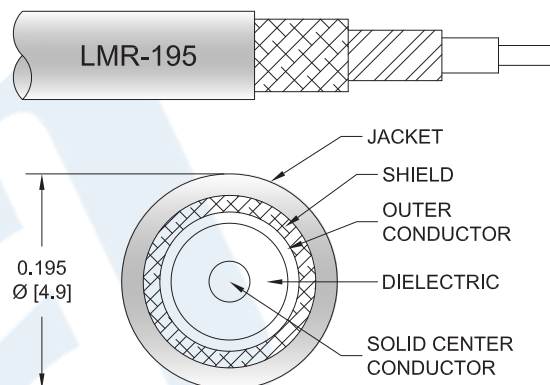
**Applications**

- General Purpose
- Laboratory Use

**Description**

Pasternack's PE3C0382/SP1 SMA male right angle to SMA male right angle cable using LMR-195 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-195 coax. The PE3C0382/SP1 SMA male to SMA male cable assembly operates to 5.8 GHz. The right angle SMA interfaces on the LMR-195 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 Cable Using LMR-195 Coax with HeatShrink and 180 Deg. Clock, LF Solder, RoHS PE3C0382/SP1](#)

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**TECHNICAL DATA SHEET****PE3C0382/SP1****Electrical Specifications**

| Description                   | Minimum | Typical      | Maximum | Units                            |
|-------------------------------|---------|--------------|---------|----------------------------------|
| Frequency Range               | DC      |              | 5.8     | GHz                              |
| VSWR                          |         |              | 1.4:1   |                                  |
| Velocity of Propagation       |         | 80           |         | %                                |
| RF Shielding                  | 90      |              |         | dB                               |
| Group Delay                   |         | 1.27 [4.17]  |         | ns/ft [ns/m]                     |
| Capacitance                   |         | 25.4 [83.33] |         | pF/ft [pF/m]                     |
| Inductance                    |         | 0.064 [0.21] |         | uH/ft [uH/m]                     |
| DC Resistance Inner Conductor |         | 7.6 [24.93]  |         | $\Omega$ /1000ft [ $\Omega$ /Km] |
| DC Resistance Outer Conductor |         | 4.9 [16.08]  |         | $\Omega$ /1000ft [ $\Omega$ /Km] |
| Jacket Spark                  |         |              | 3,000   | Vrms                             |

**Specifications by Frequency**

| Description           | F1    | F2     | F3     | F4     | F5     | Units |
|-----------------------|-------|--------|--------|--------|--------|-------|
| Frequency             | 0.25  | 0.5    | 1      | 2.5    | 5.8    | GHz   |
| Insertion Loss (Max.) | 1.06  | 1.08   | 1.12   | 1.19   | 1.3    | dB/ft |
|                       | 3.48  | 3.54   | 3.67   | 3.9    | 4.27   | dB/m  |
| VSWR (Max.)           | 1.4:1 | 1.4:1  | 1.4:1  | 1.4:1  | 1.4:1  |       |
| Return Loss (Max.)    | 15.56 | 15.563 | 15.563 | 15.563 | 15.563 | dB    |

**Mechanical Specifications****Cable Assembly**

Weight 0.057 lbs [25.85 g]

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**TECHNICAL DATA SHEET****PE3C0382/SP1****Cable**

|                                      |                        |
|--------------------------------------|------------------------|
| Cable Type                           | LMR-195                |
| 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 |
| Specification                      | MIL-STD-348A                  | MIL-STD-348A                  |
| Impedance                          | 50 Ohms                       | 50 Ohms                       |
| Contact Material and Plating       | Brass, Gold                   | Brass, Gold                   |
| Contact Plating Specification      | 50 µin minimum                | 50 µin minimum                |
| Dielectric Type                    | PTFE                          | PTFE                          |
| Body Material and Plating          | Brass, Nickel                 | Brass, Nickel                 |
| Body Plating Specification         | 100 µin minimum               | 100 µin minimum               |
| Coupling Nut Material and Plating  | Brass, Nickel                 | Brass, Nickel                 |
| Coupling Nut Plating Specification | 100 µin minimum               | 100 µin minimum               |
| Hex Size                           | 5/16 inch                     | 5/16 inch                     |
| Torque                             | 3 in-lbs [0.34 Nm]            | 3 in-lbs [0.34 Nm]            |

**Environmental Specifications****Temperature**

|                 |                  |
|-----------------|------------------|
| Operating Range | -40 to +85 deg C |
|-----------------|------------------|

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## TECHNICAL DATA SHEET

**PE3C0382/SP1**

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

### Plotted and Other Data

Notes:

### How to Order

Part Number Configuration:

**PE3C0382/SP1**

- **xx**

**uu**

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

Example: PE3C0382/SP1-12 = 12 inches long cable  
PE3C0382/SP1-100cm = 100 cm long cable

SMA Male Right Angle to SMA Male Right Angle Cable Using LMR-195 Coax with HeatShrink and 180 Deg. Clock, LF Solder, RoHS 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.

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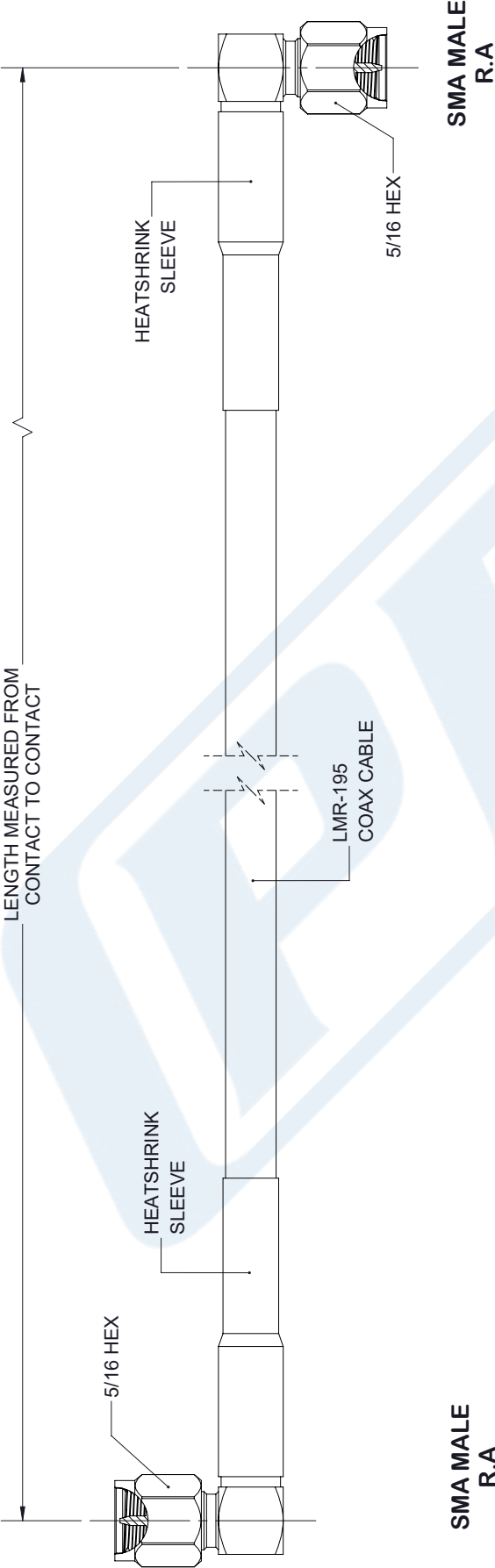
URL: <https://www.pasternack.com/sma-male-sma-male-lmr195-cable-assembly-pe3c0382-sp1-p.aspx>

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.

PE3C0382/SP1 CAD Drawing

SMA Male Right Angle to SMA Male Right Angle Cable Using LMR-195 Coax with HeatShrink and 180 Deg. Clock, LF Solder, RoHS

- NOTES:
- 180° CLOCKING.
  - HEATSHRINK SLEEVE REQUIRED.



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

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES



Pasternack Enterprises, Inc.  
P.O. Box 16759 | Irvine | CA | 92623  
**Phone:** (949) 261-1920 | **Fax:** (949) 261-7451  
**Website:** [www.pasternack.com](http://www.pasternack.com) | **E-Mail:** [sales@pasternack.com](mailto:sales@pasternack.com)

DWG TITLE

PE3C0382/SP1

- 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].

7361

SIZE A

SCALE N/A

CAD FILE 011518

CAGE CODE 53919