

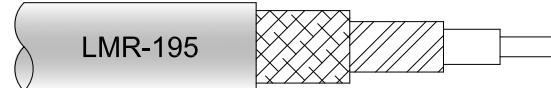
## 1 M SMA to SMA M/M Right Angle 195 Series Low Loss Cable Jumper



### CA195LL039-1M

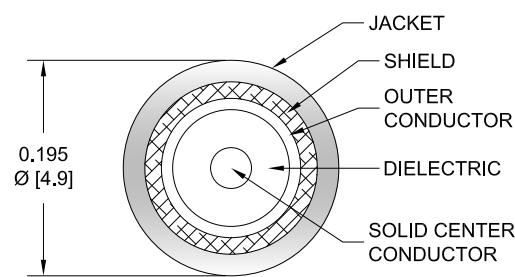
#### Configuration

- Connector 1: SMA Male
- Connector 2: SMA Male Right Angle
- Cable Type: PPBC-195LL



#### Features

- LMR Equivalent Coax
- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 80% Phase Velocity
- Low Insertion Loss
- Double Shielded
- PE Jacket
- One Time Bend Radius of 0.5 Inches



#### Applications

- General Purpose
- Laboratory Use
- Antenna Installations
- Land Mobile Radio & Other Communication Systems
- Cellular & Wi-Fi Systems

#### Description

PolyPhaser CA195LL039-1M is a 1 meter SMA to SMA M/M Right Angle 195 Series Low Loss Cable Jumper is built using high quality components by skilled technicians to ensure a reliable product. The SMA M and SMA MRA cable jumper connections are designed to industry standard interface dimensions to ensure superior performance. This product is in stock and available for same day shipping. The use of a right angle interface helps when attaching the cable assembly in tight spaces and can reduce strain on the cable/connector interface. This high-quality RF coaxial assembly is perfect in many RF Interconnect applications such as military / defense, telecom, IoT network, and many other RF systems. The CA195LL039-1M SMA to SMA cable assembly is the perfect companion to PolyPhaser line of RF surge protection devices particularly when used as an antenna jumper cable.

The 195 Series coax used in these SMA to SMA assemblies is a 0.195 inch diameter coax with a black PE jacket. This cable's foam PE dielectric is low loss material with a phase velocity of 80% reducing the attenuation when compared to solid dielectric coax cables. PolyPhaser Low Loss 195 Series coax has a solid center conductor and uses a double shield consisting of a wire braid over a foil tape construction providing >90% shielding effectiveness. The construction and materials of the CA195LL039-1M result in a coax cable assembly with 0.5 inch one time bend radius and a repeat bend radius of 2 inches. The cable assembly's combination of SMA to SMA M/MRA and 195 Series Low Loss Cable supports a maximum operating frequency of 5.8 GHz. You can find detailed performance specifications in the product datasheet. Processes and procedures are in place to ensure products meet the published specifications.

For additional strength, these SMA M to SMA MRA cable assemblies have polyolefin heat shrink strain relief boots on both ends of the RF Cable Assembly Jumpers. The heat shrink booting uses a double walled epoxy filled material to prolong the life of the assembly.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications:  
[1 M SMA to SMA M/M Right Angle 195 Series Low Loss Cable Jumper CA195LL039-1M](#)

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## CA195LL039-1M

### 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           |
| Capacitance             |         | 25.4 [83.33] |         | pF/ft [pF/m] |
| Operating Voltage (AC)  |         |              | 500     | Vrms         |
| Jacket Spark            |         |              | 5,000   | 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.) | 2.67 | 3.45 | 5.03 | 7.79 | 12.12 | dB    |

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax cable and connectors used in this assembly. Insertion Loss is estimated as 0.1 dB per connector and 0.2 dB per right angle connector.

### Mechanical Specifications

#### Size

|          |                      |
|----------|----------------------|
| Length   | 39.37 in [100 cm]    |
| Diameter | 0.195 in [4.95 mm]   |
| Weight   | 0.1019 lbs [46.22 g] |

#### Cable

|                                      |                     |
|--------------------------------------|---------------------|
| Cable Type                           | PPBC-195LL          |
| 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]      |

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## CA195LL039-1M

### Connectors

| Description                        | Connector 1           | Connector 2           |
|------------------------------------|-----------------------|-----------------------|
| Type                               | SMA Male              | SMA Male Right Angle  |
| Specification                      | MIL-STD-348A          | MIL-STD-348A          |
| Impedance                          | 50 Ohms               | 50 Ohms               |
| Contact Material and Plating       | Brass, Gold           | Brass, Gold           |
| Contact Plating Specification      | 50 $\mu$ in. minimum  | 50 $\mu$ in. minimum  |
| Dielectric Type                    | Teflon                | Teflon                |
| Body Material and Plating          | Brass, Nickel         | Brass, Nickel         |
| Body Plating Specification         | 100 $\mu$ in. minimum | 100 $\mu$ in. minimum |
| Coupling Nut Material and Plating  | Brass, Nickel         | Brass, Nickel         |
| Coupling Nut Plating Specification | 100 $\mu$ in. minimum | 100 $\mu$ in. minimum |
| Hex Size                           | 16-May in             | 16-May in.            |
| Torque                             | 5 in-lbs [0.57 Nm]    | 5 in-lbs [0.57 Nm]    |

### Environmental Specifications

#### Temperature

Operating Range

-40 to +85 deg C

### Compliance Certifications

### Plotted and Other Data

Notes:

- Values at 25°C, sea level.

PolyPhaser protects and increases the reliability of global RF communications networks, including transportation, telecommunications, defense, security and industrial applications, with superior RF surge protection technologies including DC Block, DC Pass and Ultra Low PIM. Backed by responsive service and expert technical support PolyPhaser continually expands its product offering and services to serve engineers' urgent needs for RF components in mission critical communication networks.

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URL: <https://www.polyphaser.com/1-m-sma-to-sma-m-m-right-angle-195-series-low-loss-cable-jumper-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. PolyPhaser reserves the right to make such changes

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## CA195LL039-1M

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as required. Unless otherwise stated, all specifications are nominal. PolyPhaser does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and PolyPhaser does not assume any liability arising out of the use of any part or documentation.

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## CA195LL039-1M CAD Drawing

