

## 100 FT Type N to Type N M/F Bulkhead 195 Series Low Loss Cable Jumper

### CA195LL030-100FT

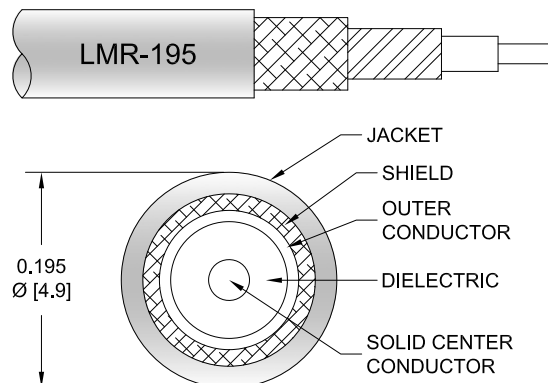


#### Configuration

- Connector 1: N Male
- Connector 2: N Female Bulkhead
- 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 CA195LL030-100FT is a 100 foot Type N to Type N M/F Bulkhead 195 Series Low Loss Cable Jumper is built using high quality components by skilled technicians to ensure a reliable product. The Type N M and Type N FBH cable jumper connections are designed to industry standard interface dimensions to ensure superior performance. All of these products are available for same day shipment to fulfill your urgent needs. FBH interfaces allow cables to be attached to a bracket to fix the cable and reduce unwanted movement. In addition, FBH connectors are often used as an input/output to a piece of equipment or enclosure. This high-quality RF coaxial assembly is perfect in many RF Interconnect applications such as LMR, laboratory test and measurement, Wireless Lan, and many other applications. The CA195LL030-100FT Type N to Type N 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 Type N to Type N 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 VoP 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 comprised of a wire braid over a foil tape construction providing >90% shielding effectivity. The construction and materials of the CA195LL030-100FT 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 Type N to Type N M/FBH and 195 Series Low Loss Cable supports a maximum operating frequency of 5800 MHz. Detailed specifications for this configuration includes layout drawings and key performance specifications. All assemblies are design verified and shipped with a certificate of compliance.

Polyolefin heat shrink strain relief boots add additional strength on both ends of this 100 foot assembly. These epoxy filled heat shrinks provide strain relief to help prevent damage from over-bending the assembly ends.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications:  
[100 FT Type N to Type N M/F Bulkhead 195 Series Low Loss Cable Jumper CA195LL030-100FT](#)

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#### Electrical Specifications

| Description             | Minimum | Typical      | Maximum | Units        |
|-------------------------|---------|--------------|---------|--------------|
| Frequency Range         | DC      |              | 5.8     | GHz          |
| VSWR                    |         |              | 1.5:1   |              |
| Velocity of Propagation |         | 80           |         | %            |
| RF Shielding            | 90      |              |         | dB           |
| Capacitance             |         | 25.4 [83.33] |         | pF/ft [pF/m] |
| Operating Voltage (AC)  |         |              | 1,500   | 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.) | 6.25 | 8.25 | 12.25 | 19.25 | 30.25 | 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 0.15 dB per N male connector and 0.1 dB per N female connector.

#### Mechanical Specifications

##### Size

|          |                    |
|----------|--------------------|
| Length   | 1,200 in [30.48 m] |
| Diameter | 0.195 in [4.95 mm] |
| Weight   | 2.26 lbs [1.03 Kg] |

##### 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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#### Connectors

| Description                       | Connector 1      | Connector 2           |
|-----------------------------------|------------------|-----------------------|
| Type                              | N Male           | N Female Bulkhead     |
| Specification                     | MIL-STD-348A     |                       |
| Impedance                         | 50 Ohms          | 50 Ohms               |
| Mating Cycles                     | 500              |                       |
| Contact Material and Plating      | Brass, Gold      | Phosphor Bronze, Gold |
| Contact Plating Specification     | 30 µin minimum   |                       |
| Dielectric Type                   | PTFE             | PTFE                  |
| Body Material and Plating         | Brass, Tri-Metal | Brass, Tri-Metal      |
| Coupling Nut Material and Plating | Brass, Tri-Metal |                       |

#### 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [100 FT Type N to Type N M/F Bulkhead 195 Series Low Loss Cable Jumper CA195LL030-100FT](https://www.polyphaser.com/100-ft-type-n-to-type-n-m-f-bulkhead-195-series-low-loss-cable-jumper-p.aspx)

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CA195LL030-100FT CAD Drawing

