

## 50 FT 7/16 to 7/16 M/F Bulkhead 600 Series Low Loss Cable Jumper

### CA600LL052-50FT

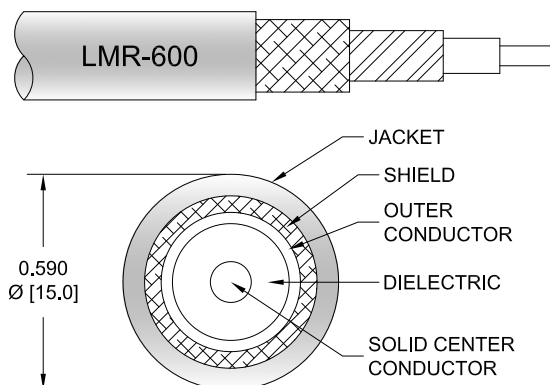


#### Configuration

- Connector 1: 7/16 DIN Male
- Connector 2: 7/16 DIN Female Bulkhead
- Cable Type: PPBC-600LL

#### Features

- LMR Equivalent Coax
- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 87% Phase Velocity
- Low Insertion Loss
- Double Shielded
- PE Jacket
- One Time Bend Radius of 1.5 Inches



#### Applications

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

#### Description

PolyPhaser CA600LL052-50FT is a 50 foot 7/16 to 7/16 M/F Bulkhead 600 Series Low Loss Cable Jumper is built using high quality components by skilled technicians to ensure a reliable product. The 7/16 M and 7/16 FBH 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. 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 Land Mobile Radio (LMR), telecom, IoT network, and many other applications. The CA600LL052-50FT 7/16 to 7/16 cable assembly is the perfect companion to PolyPhaser line of RF surge protection devices particularly when used as an antenna jumper cable.

The 600 Series coax used in these 7/16 to 7/16 assemblies is a 0.59 inch diameter coax with a black PE jacket. This cable's foam PE dielectric is low loss material with a VoP of 87% reducing the attenuation when compared to solid dielectric coax cables. PolyPhaser Low Loss 600 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 effectivity. The construction and materials of the CA600LL052-50FT result in a coax cable assembly with 1.5 inch one time bend radius and a repeat bend radius of 6 inches. The cable assembly's combination of 7/16 to 7/16 M/FBH and 600 Series Low Loss Cable supports a maximum operating frequency of 5800 MHz. Detailed specifications for this configuration includes layout drawings and performance and material 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 50 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:  
[50 FT 7/16 to 7/16 M/F Bulkhead 600 Series Low Loss Cable Jumper CA600LL052-50FT](#)

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#### Electrical Specifications

| Description             | Minimum | Typical      | Maximum | Units        |
|-------------------------|---------|--------------|---------|--------------|
| Frequency Range         | DC      |              | 5.8     | GHz          |
| VSWR                    |         |              | 1.5:1   |              |
| Velocity of Propagation |         | 87           |         | %            |
| RF Shielding            | 90      |              |         | dB           |
| Capacitance             |         | 23.4 [76.77] |         | pF/ft [pF/m] |
| 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.) | 0.7  | 1.2 | 1.7 | 2.7 | 4.2 | 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.

#### Mechanical Specifications

##### Size

|          |                     |
|----------|---------------------|
| Length   | 600 in [15.24 m]    |
| Diameter | 0.59 in [14.99 mm]  |
| Weight   | 7.011 lbs [3.18 Kg] |

##### Cable

|                                      |                      |
|--------------------------------------|----------------------|
| Cable Type                           | PPBC-600LL           |
| Impedance                            | 50 Ohms              |
| Inner Conductor Type                 | Solid                |
| Inner Conductor Material and Plating | Copper Clad Aluminum |
| 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                      | 0.59 in [14.99 mm]   |

|                              |                 |
|------------------------------|-----------------|
| Repeated Minimum Bend Radius | 6 in [152.4 mm] |
|------------------------------|-----------------|

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#### Connectors

| Description                           | Connector 1           | Connector 2              |
|---------------------------------------|-----------------------|--------------------------|
| Type                                  | 7/16 DIN Male         | 7/16 DIN Female Bulkhead |
| Impedance                             | 50 Ohms               | 50 Ohms                  |
| Contact Material and Plating          | Copper, Silver        | Brass, Silver            |
| Contact Plating Specification         | 5μ in. minimum        |                          |
| Dielectric Type                       | PTFE                  | PTFE                     |
| Outer Conductor Material and Plating  | Brass, Tri-Metal      |                          |
| Outer Conductor Plating Specification | 2μ in. minimum        |                          |
| Body Material and Plating             | Brass, Tri-Metal      | Brass, Tri-Metal         |
| Body Plating Specification            | 2μ in. minimum        |                          |
| Coupling Nut Material and Plating     | Brass, Nickel         |                          |
| Coupling Nut Plating Specification    | 5μ in. minimum        |                          |
| Hex Size                              | 1 1/4 inch            |                          |
| Torque                                | 18.439 ft-lbs [25 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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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

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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 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.

CA600LL052-50FT CAD Drawing

