

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

### CA600LL052-25M

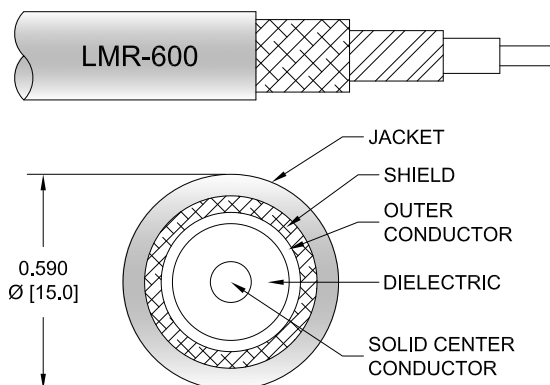


#### Configuration

- 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 CA600LL052-25M is a 25 meter 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 CA600LL052-25M 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 CA600LL052-25M 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 25 meter 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:  
[25 M 7/16 to 7/16 M/F Bulkhead 600 Series Low Loss Cable Jumper CA600LL052-25M](#)

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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.)	10.05	19.89	29.73	49.42	78.95	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	984.252 in [25 m]
Diameter	0.59 in [14.99 mm]
Weight	11.20575 lbs [5.08 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [25 M 7/16 to 7/16 M/F Bulkhead 600 Series Low Loss Cable Jumper CA600LL052-25M](https://www.polyphaser.com/25-m-7-16-to-7-16-m-f-bulkhead-600-series-low-loss-cable-jumper-p.aspx)

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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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