

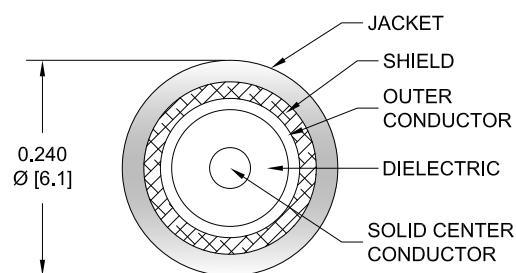
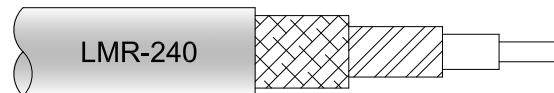
1 M 7/16 to 7/16 M/M Right Angle 240 Series Low Loss Cable Jumper



## CA240LL021-1M

### Configuration

- Connector 1: 7/16 DIN Male
- Connector 2: 7/16 DIN Male Right Angle
- Cable Type: PPBC-240LL



### Features

- LMR Equivalent Coax
- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 84% Phase Velocity
- Low Insertion Loss
- Double Shielded
- PE Jacket
- One Time Bend Radius of 0.75 Inches

### Applications

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

### Description

PolyPhaser CA240LL021-1M is a 1 meter 7/16 to 7/16 M/M Right Angle 240 Series Low Loss Cable Jumper is built using high quality components by skilled technicians to ensure a reliable product. The 7/16 Male and 7/16 Male Right Angle 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 industrial / commercial, Wi-Fi, Land Mobile Radio (LMR), and many other applications. The CA240LL021-1M 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 240 Series coax used in these 7/16 to 7/16 assemblies is a 0.24 inch diameter coax with a black PE jacket. This cable's foam PE dielectric is low loss material with a VoP of 84% reducing the attenuation when compared to solid dielectric coax cables. PolyPhaser Low Loss 240 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 CA240LL021-1M result in a coax cable assembly with 0.75 inch one time bend radius and a repeat bend radius of 2.5 inches. The cable assembly's combination of 7/16 to 7/16 Male/Male Right Angle and 240 Series Low Loss Cable supports a maximum operating frequency of 5800 MHz. Detailed specifications for this configuration includes layout drawings and key performance specifications. This product is built and tested by our expert technicians to fulfill your cable assembly needs.

Polyolefin heat shrink strain relief boots add additional strength on both ends of this 1 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:  
**1 M 7/16 to 7/16 M/M Right Angle 240 Series Low Loss Cable Jumper CA240LL021-1M**

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## CA240LL021-1M

### Electrical Specifications

| Description             | Minimum | Typical     | Maximum | Units        |
|-------------------------|---------|-------------|---------|--------------|
| Frequency Range         | DC      |             | 5.8     | GHz          |
| VSWR                    |         |             | 1.5:1   |              |
| Velocity of Propagation |         | 84          |         | %            |
| RF Shielding            | 90      |             |         | dB           |
| Capacitance             |         | 24.2 [79.4] |         | 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.) | 1.88 | 2.27 | 3.85 | 6.21 | 9.36 | 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 | 0.24 in [6.1 mm]       |
| Weight   | 0.45843 lbs [207.94 g] |

#### Cable

|                                      |                     |
|--------------------------------------|---------------------|
| Cable Type                           | PPBC-240LL          |
| 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                      | 0.24 in [6.1 mm]    |
| One Time Minimum Bend Radius         | 0.752 in [19.1 mm]  |
| Repeated Minimum Bend Radius         | 2.5 in [63.5 mm]    |

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## CA240LL021-1M

### Connectors

| Description                       | Connector 1      | Connector 2               |
|-----------------------------------|------------------|---------------------------|
| Type                              | 7/16 DIN Male    | 7/16 DIN Male Right Angle |
| Specification                     | IEC 169-4        |                           |
| Impedance                         | 50 Ohms          | 50 Ohms                   |
| Contact Material and Plating      | Brass, Silver    | Beryllium Copper, Silver  |
| Dielectric Type                   | PTFE             | PTFE                      |
| Body Material and Plating         | Brass, Tri-Metal | Brass, Tri-Metal          |
| Coupling Nut Material and Plating | Brass, Tri-Metal | Brass, Tri-Metal          |
| Hex Size                          | 1 1/4 inch       | 1 1/4 inch                |

### 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-7-16-to-7-16-m-m-right-angle-240-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 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.

## CA240LL021-1M CAD Drawing

