

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

CA240LL021-50FT

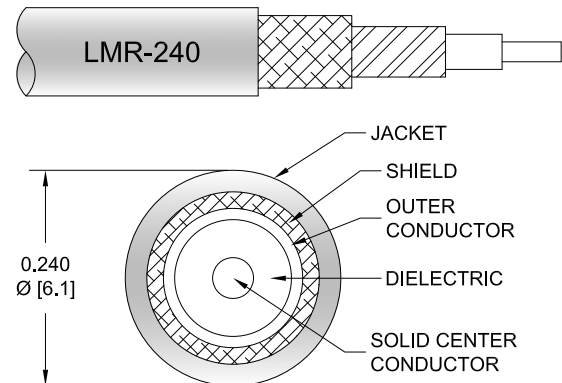


Configuration

- 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 CA240LL021-50FT is a 50 foot 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 CA240LL021-50FT 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 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 CA240LL021-50FT 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 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/M Right Angle 240 Series Low Loss Cable Jumper CA240LL021-50FT](#)

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



CA240LL021-50FT

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.)	2.3	2.8	4.8	7.8	11.8	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	600 in [15.24 m]
Diameter	0.24 in [6.1 mm]
Weight	1.86 lbs [843.68 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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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.

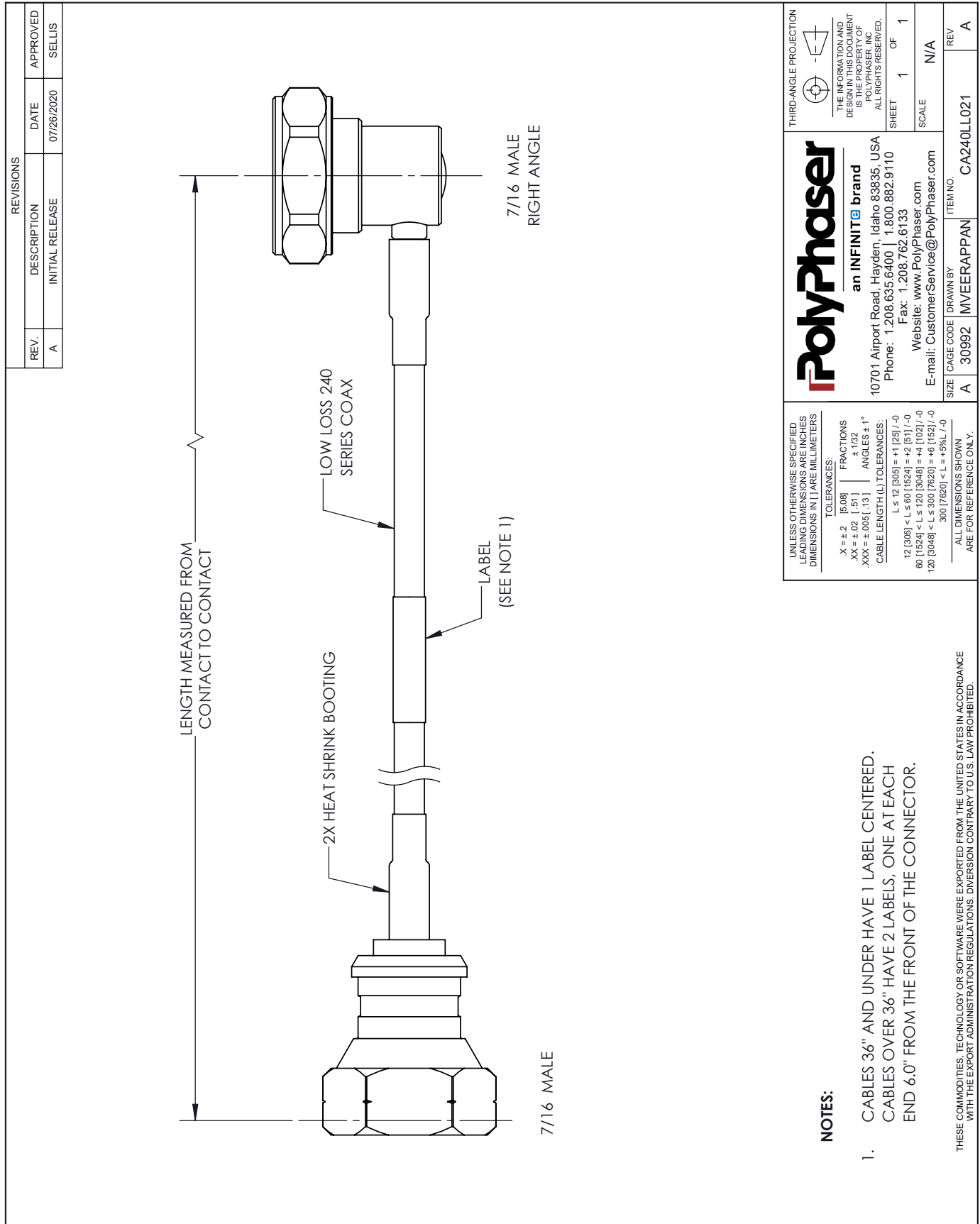
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [50 FT 7/16 to 7/16 M/M Right Angle 240 Series Low Loss Cable Jumper CA240LL021-50FT](https://www.polyphaser.com/50-ft-7-16-to-7-16-m-m-right-angle-240-series-low-loss-cable-jumper-p.aspx)

URL: <https://www.polyphaser.com/50-ft-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.

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

CA240LL021-50FT CAD Drawing



REVISIONS		
REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	07/26/2020
		APPROVED
		SELLIS

PolyPhaser
an INFINIT[®] brand

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THIRD-ANGLE PROJECTION
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SHEET 1 OF 1
SCALE N/A

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:
X = +2 [0.08] FRACTIONS
XX = +02 [.51] +1/32
.XXX = +005 [.13] ANGLES ±1°

CABLE LENGTH (L) TOLERANCES:
L ≤ 12 [305] = +1 [25] / -0
12 [305] < L ≤ 60 [1524] = +2 [51] / -0
60 [1524] < L ≤ 120 [3048] = +4 [102] / -0
120 [3048] < L ≤ 300 [7620] = +6 [152] / -0
300 [7620] < L = +6%L / -0

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SIZE CAGE CODE DRAWN BY ITEM NO.
A 30992 MVEERAPPAN CA240LL021

REV A

NOTES:

1. CABLES 36" AND UNDER HAVE 1 LABEL CENTERED. CABLES OVER 36" HAVE 2 LABELS, ONE AT EACH END 6.0" FROM THE FRONT OF THE CONNECTOR.

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