

## 2 FT Type N to Type N M/M 240 Series Low Loss Cable Jumper



### CA240LL015-2FT

### Configuration

Connector 1: N MaleConnector 2: N Male

• 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

# JACKET SHIELD OUTER CONDUCTOR 0.240 Ø [6.1] SOLID CENTER CONDUCTOR

### **Applications**

- · General Purpose
- Laboratory Use
- Antenna Installations

- Land Mobile Radio & Other Communication Systems
- Cellular & Wi-Fi Systems

# Description

PolyPhaser CA240LL015-2FT is a 2 FT Type N to Type N M/M 240 Series Low Loss Cable Jumper is built using high quality components by skilled technicians to ensure a reliable product. The Type N (M) jumper connections are designed to industry standard interface dimensions to ensure superior performance. If you have an immediate need, these products are available to ship same day. This high-quality RF coaxial assembly is perfect in many RF Interconnect applications such as Wi-Fi, communications systems, Land Mobile Radio (LMR), and many other RF systems. The CA240LL015-2FT N Type to N Type cable assembly is the perfect companion to PolyPhaser line of RF surge protection devices particularly when used as an antenna jumper.

The 240 Series coax used in these N (M)-N (M) assemblies is a 0.24 inch diameter coax with a black PE jacket. This cable's foam Polyethylene dielectric is low loss material with a phase velocity of 84% reducing the attenuation when compared to solid dielectric coax. 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 CA240LL015-2FT result in a coax cable assembly with a 0.75 inch one time bend radius and a repeat bend radius of 2.5 inches. The cable assembly's combination of Type N to Type N (M)/(M) and 240 Series Low Loss Cable supports a maximum operating frequency of 5800 MHz. You can find detailed performance specifications in the product datasheet. All PolyPhaser assemblies are tested and inspected prior to shipping.

For additional strength, these Type N Male to Type N Male cable assemblies have polyolefin heat shrink strain relief boots on both ends of the RF Cable Assembly Jumpers. This double wall epoxy filled heat shrink extends the life of these cables by distributing the stresses applied to the connector/coax attachment.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 2 FT Type N to Type N M/M 240 Series Low Loss Cable Jumper CA240LL015-2FT



# 2 FT Type N to Type N M/M 240 Series Low Loss Cable Jumper



### CA240LL015-2FT

### **Electrical Specifications**

GHz
%
dB
pF/ft [pF/m]
Vrms
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.)	0.38	0.4	0.48	0.6	0.76	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 connector.

### **Mechanical Specifications**

 Length
 24 in [609.6 mm]

 Diameter
 0.24 in [6.1 mm]

 Weight
 0.198 lbs [89.81 g]

### Cable

PPBC-240LL Cable Type Impedance 50 Ohms Inner Conductor Type Solid Inner Conductor Material and Plating Copper Dielectric Type PE(F) Number of Shields 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**

Connector 1	Connector 2	
N Male	N Male	
MIL-STD-348A	MIL-STD-348A	
50 Ohms	50 Ohms	
Brass, Gold	Brass, Gold	
Teflon	Teflon	
Brass, Tri-Metal	Brass, Tri-Metal	
Brass, Tri-Metal	Brass, Tri-Metal	
18 mm	18 mm	
9 in-lbs [1.02 Nm]	9 in-lbs [1.02 Nm]	
	N Male MIL-STD-348A 50 Ohms Brass, Gold Teflon Brass, Tri-Metal Brass, Tri-Metal 18 mm	N Male         N Male           MIL-STD-348A         MIL-STD-348A           50 Ohms         50 Ohms           Brass, Gold         Brass, Gold           Teflon         Teflon           Brass, Tri-Metal         Brass, Tri-Metal           Brass, Tri-Metal         Brass, Tri-Metal           18 mm         18 mm

# **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: 2 FT Type N to Type N M/M 240 Series Low Loss Cable Jumper CA240LL015-2FT

URL: https://www.polyphaser.com/2-ft-type-n-to-type-n-m-m-240-series-low-loss-cable-jumper-p.aspx

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# CA240LL015-2FT CAD Drawing

