

100 FT Type N to Type N M/M 400 Series Low Loss Cable Jumper



CA400LL001-100FT

Configuration

· Connector 1: N Male

· Connector 2: N Male

• Cable Type: PPBC-400LL

Features

- · LMR Equivalent Coax
- · Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- · 85% Phase Velocity
- · Low Insertion Loss
- · Double Shielded
- PE Jacket
- · One Time Bend Radius of 1 Inch

JACKET SHIELD OUTER CONDUCTOR 0.405 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 CA400LL001-100FT is a 100 foot Type N to Type N M/M 400 Series Low Loss Cable Jumper built using high quality components by skilled technicians to ensure a reliable product. The Type N Male jumper connections are designed to industry standard interface dimensions to ensure superior performance. All of these products are available for same day shipment to fulfill your urgent needs. This high-quality RF coaxial assembly is perfect in many RF Interconnect applications such as IoT network, military / defense, Land Mobile Radio (LMR), and many other RF systems. The CA400LL001-100FT Type N to Type N cable assembly is the perfect companion to PolyPhaser line of RF surge protection devices particularly when used as an antenna jumper cable.

The 400 Series coax used in these Type N to Type N assemblies is a 0.4 inch diameter coax with a black PE jacket. This cable's foam PE dielectric is low loss material with a phase velocity of 85% reducing the attenuation when compared to solid dielectric coax cables. PolyPhaser Low Loss 400 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 CA400LL001-100FT result in a coax cable assembly with 1 inch one time bend radius and a repeat bend radius of 4 inches. The cable assembly's combination of Type N to Type N Male/Male and 400 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. The heat shrink booting uses a double walled epoxy filled material to prolong the life of the assembly.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 100 FT Type N to Type N M/M 400 Series Low Loss Cable Jumper CA400LL001-100FT



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	0.03		5.8	GHz
VSWR			1.3:1	
Velocity of Propagation		85		%
RF Shielding	90			dB
Capacitance		24 [78.74]		pF/ft [pF/m]
Operating Voltage (AC)			1,000	Vrms
Jacket Spark			8,000	Vrms
Operating Voltage (AC) Jacket Spark			,	

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	5.8	GHz
Insertion Loss (Max.)	2.2	3.2	5.2	8.2	12.2	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

 Length
 1,200 in [30.48 m]

 Diameter
 0.405 in [10.29 mm]

 Weight
 6.542 lbs [2.97 Kg]

Cable

Cable Type PPBC-400LL
Impedance 50 Ohms
Inner Conductor Type Solid
Inner Conductor Material and Plating Copper Clad Aluminum
Dielectric Type PE (F)

Number of Shields

Shield Layer 1

Shield Layer 2

Jacket Material

Jacket Diameter

PE (F)

Aluminum Tape

Tinned Copper Braid

PE, Black

0.4 in [10.16 mm]

One Time Minimum Bend Radius 1 in [25.4 mm]
Repeated Minimum Bend Radius 4 in [101.6 mm]

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Bending Moment 0
Tensile Strength 1

0.5 lbs-ft [0.68 N-m] 160 lbs [72.57 Kg]

Connectors

Description	Connector 1	Connector 2	
Туре	N Male	N Male	
Specification	MIL-STD-348A	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms	
Contact Material and Plating	Brass, Silver	Brass, Silver	
Contact Plating Specification	70μ in. minimum	70µ in. minimum	
Dielectric Type	Teflon	Teflon	
Body Material and Plating	Brass, Nickel	Brass, Nickel	
Body Plating Specification	100µ in. minimum	100µ in. minimum	

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/100-ft-type-n-to-type-n-m-m-400-series-low-loss-cable-jumper-p.aspx

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CA400LL001-100FT CAD Drawing

