

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

### CA400LL001-25FT

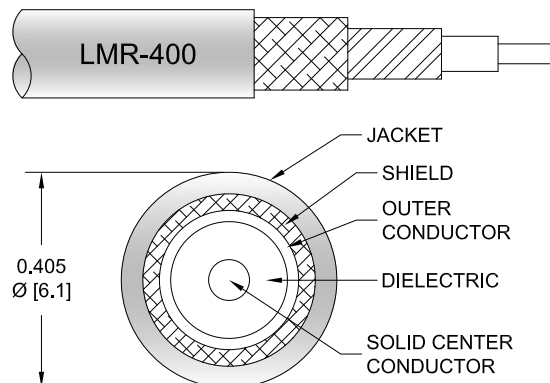


#### Configuration

- 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



#### Applications

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

#### Description

PolyPhaser CA400LL001-25FT is a 25 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 CA400LL001-25FT 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 CA400LL001-25FT 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:  
[25 FT Type N to Type N M/M 400 Series Low Loss Cable Jumper CA400LL001-25FT](#)

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

### CA400LL001-25FT



#### 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         |

#### Specifications by Frequency

| Description           | F1   | F2   | F3   | F4  | F5  | Units |
|-----------------------|------|------|------|-----|-----|-------|
| Frequency             | 0.25 | 0.5  | 1    | 2.5 | 5.8 | GHz   |
| Insertion Loss (Max.) | 0.7  | 0.95 | 1.45 | 2.2 | 3.2 | 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

##### Size

|          |                      |
|----------|----------------------|
| Length   | 300 in [762 cm]      |
| Diameter | 0.405 in [10.29 mm]  |
| Weight   | 1.742 lbs [790.16 g] |

##### 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                    | 2                    |
| Shield Layer 1                       | Aluminum Tape        |
| Shield Layer 2                       | Tinned Copper Braid  |
| Jacket Material                      | PE, Black            |
| Jacket Diameter                      | 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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## 25 FT Type N to Type N M/M 400 Series Low Loss Cable Jumper

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|                  |                       |
|------------------|-----------------------|
| Bending Moment   | 0.5 lbs-ft [0.68 N-m] |
| Tensile Strength | 160 lbs [72.57 Kg]    |

#### Connectors

| Description                   | Connector 1      | Connector 2      |
|-------------------------------|------------------|------------------|
| Type                          | 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [25 FT Type N to Type N M/M 400 Series Low Loss Cable Jumper CA400LL001-25FT](https://www.polyphaser.com/25-ft-type-n-to-type-n-m-m-400-series-low-loss-cable-jumper-p.aspx)

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CA400LL001-25FT CAD Drawing

