

10 FT SMA to SMA M/F 400 Series Low Loss Cable Jumper



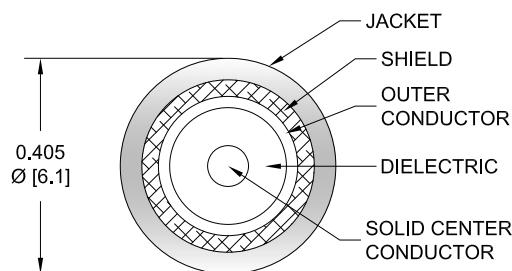
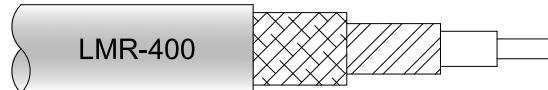
CA400LL010-10FT

Configuration

- Connector 1: SMA Male
- Connector 2: SMA Female
- 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 CA400LL010-10FT is a 10 foot SMA to SMA M/F 400 Series Low Loss Cable Jumper is built using high quality components by skilled technicians to ensure a reliable product. The SMA Male and SMA Female cable 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 LMR, laboratory test and measurement, Wi-Fi, and many other applications. The CA400LL010-10FT SMA to SMA 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 SMA to SMA 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 VoP 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 consisting of a wire braid over a foil tape construction providing >90% shielding effectivity. The construction and materials of the CA400LL010-10FT 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 SMA to SMA Male/Female and 400 Series Low Loss Cable supports a maximum operating frequency of 5800 MHz. Detailed specifications for this configuration includes layout drawings and performance and material 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 10 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:
10 FT SMA to SMA M/F 400 Series Low Loss Cable Jumper CA400LL010-10FT

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CA400LL010-10FT

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-------------------------|---------|------------|---------|--------------|
| Frequency Range | DC | | 5.8 | GHz |
| VSWR | | | 1.5:1 | |
| Velocity of Propagation | | 85 | | % |
| RF Shielding | 90 | | | dB |
| Capacitance | | 24 [78.74] | | pF/ft [pF/m] |
| 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.) | 0.4 | 0.5 | 0.7 | 1 | 1.4 | 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 | 120 in [304.8 cm] |
| Diameter | 0.405 in [10.29 mm] |
| Weight | 0.778 lbs [352.89 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] |
| Bending Moment | 0.5 lbs-ft [0.68 N-m] |
| Tensile Strength | 160 lbs [72.57 Kg] |

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Connectors

| Description | Connector 1 | Connector 2 |
|-----------------------------------|--------------------|-------------|
| Type | SMA Male | SMA Female |
| Impedance | 50 Ohms | 50 Ohms |
| Contact Material and Plating | Brass, Gold | Brass, Gold |
| Dielectric Type | Teflon | Teflon |
| Body Material and Plating | Brass, Gold | Brass, Gold |
| Coupling Nut Material and Plating | Brass, Gold | |
| Hex Size | 16-May in | |
| Torque | 5 in-lbs [0.57 Nm] | |

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: [10 FT SMA to SMA M/F 400 Series Low Loss Cable Jumper CA400LL010-10FT](#)

URL: <https://www.polyphaser.com/10-ft-sma-to-sma-m-f-400-series-low-loss-cable-jumper-p.aspx>

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CA400LL010-10FT CAD Drawing

