

3 FT Plenum Rated 4.3-10 to 4.3-10 M/F SPP-250-LLPL Low PIM Cable Jumper

**CASPP250LLPL003-3FT**

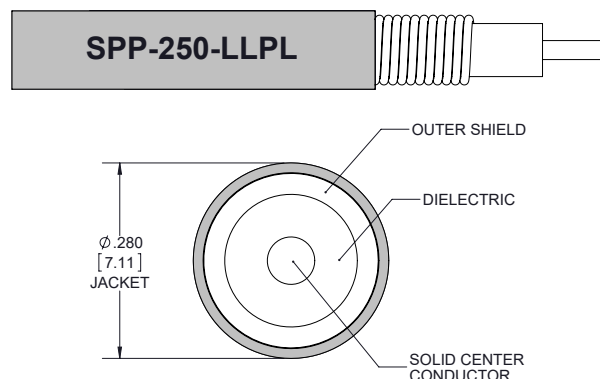


**Configuration**

- Connector 1: 4.3-10 Male
- Connector 2: 4.3-10 Female
- Cable Type: SPP-250-LLPL

**Features**

- Max Frequency 5.8 GHz
- Low PIM: -160 dBc Max
- UL 910 Plenum Rated
- FEP Jacket
- Shielding Effectivity > 100 dB
- 100% Tested with PIM Test Results Marked on Cable
- 1.25 Inch Minimum Bend Radius
- Low Loss with Excellent VSWR



**Applications**

- Distributed Antennas Systems (DAS)
- Low PIM Applications
- Plenum Installations
- Multi-Carrier Communication Systems

**Description**

Polyphaser CASPP250LLPL003-3FT is a 3 FT Plenum Rated 4.3-10 to 4.3-10 M/F SPP-250-LLPL Low PIM Cable Jumper built using high quality components by skilled technicians to ensure a reliable product. The 4.3-10 Male to 4.3-10 Female jumper connections are designed to industry standard interface dimensions to ensure superior performance. These low PIM corrugated cable assemblies are durable and plenum rated for applications that require these parameters. All PolyPhaser cable assemblies 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 low PIM applications, plenum installations, distributed antenna systems (DAS), and many other RF systems. The CASPP250LLPL003-3FT 4.3-12 to 4.3-12 low PIM cable assembly is the perfect companion to PolyPhaser line of products, particularly when used as an antenna jumper.

The quarter inch low PIM plenum rated coax used in these 4.3-12 to 4.3-12 assemblies is a .250 inch diameter copper corrugated coax with a blue FEP jacket. This cable's PTFE dielectric is low loss material with a phase velocity of 76% and offers excellent passive intermodulation (PIM) performance better than -160 dBc. The construction of the quarter inch copper corrugated jumper results in a minimum bend radius of 1.25 inches. The cable assembly's combination of 4.3-12 to 4.3-12 M/F and Times Microwave's SPP-250-LLPL low PIM plenum rated cable supports a maximum operation frequency of 5.8 GHz. Each cable assembly is installed with heat shrink booting on each end and a PIM label with the measured PIM level. You can find detailed performance specifications in the product datasheet. All PolyPhaser assemblies are tested and inspected prior to shipping.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications:  
[3 FT Plenum Rated 4.3-10 to 4.3-10 M/F SPP-250-LLPL Low PIM Cable Jumper CASPP250LLPL003-3FT](#)

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## CASPP250LLPL003-3FT



### Electrical Specifications

| Description                   | Minimum | Typical      | Maximum | Units           |
|-------------------------------|---------|--------------|---------|-----------------|
| Frequency Range               | DC      |              | 5.8     | GHz             |
| VSWR                          |         |              | 1.4:1   |                 |
| Velocity of Propagation       |         | 76           |         | %               |
| RF Shielding                  | 100     |              |         | dB              |
| Passive Intermodulation       |         |              | -160    | dBc             |
| Capacitance                   |         | 27 [88.58]   |         | pF/ft [pF/m]    |
| Inductance                    |         | 0.067 [0.22] |         | uH/ft [uH/m]    |
| DC Resistance Inner Conductor |         | 3 [9.84]     |         | Ω/1000ft [Ω/Km] |

### Specifications by Frequency

| Description           | F1   | F2   | F3   | F4   | F5   | Units |
|-----------------------|------|------|------|------|------|-------|
| Frequency             | 0.45 | 0.7  | 1    | 2.5  | 5.8  | GHz   |
| Insertion Loss (Max.) | 0.17 | 0.21 | 0.25 | 0.41 | 0.64 | dB    |

#### Electrical Specification Notes:

The insertion loss data above is based on the performance specifications of the coax cable used in this assembly. The insertion loss includes an estimated insertion loss of 0.04\*SQRT(FGHz) dB maximum per connector.

### Mechanical Specifications

#### Size

|        |                     |
|--------|---------------------|
| Length | 36 in [914.4 mm]    |
| Weight | 0.38 lbs [172.37 g] |

#### Cable

|                                      |                       |
|--------------------------------------|-----------------------|
| Cable Type                           | SPP-250-LLPL          |
| Impedance                            | 50 Ohms               |
| Inner Conductor Type                 | Solid                 |
| Inner Conductor Material and Plating | Copper                |
| Dielectric Type                      | PTFE                  |
| Number of Shields                    | 1                     |
| Outer Conductor Material and Plating | Copper                |
| Jacket Material                      | FEP, Blue             |
| Jacket Diameter                      | 0.28 in [7.11 mm]     |
| One Time Minimum Bend Radius         | 1.25 in [31.75 mm]    |
| Bending Moment                       | 0.8 lbs-ft [1.08 N-m] |

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### Connectors

| Description                          | Connector 1      | Connector 2                |
|--------------------------------------|------------------|----------------------------|
| Type                                 | 4.3-10 Male      | 4.3-10 Female              |
| Impedance                            | 50 Ohms          | 50 Ohms                    |
| Contact Material and Plating         | Brass, Silver    | Phosphor Bronze, Silver    |
| Dielectric Type                      | PTFE             | PTFE                       |
| Outer Conductor Material and Plating |                  | Phosphor Bronze, Tri-Metal |
| Body Material and Plating            | Brass, Tri-Metal | Brass, Tri-Metal           |
| Coupling Nut Material and Plating    | Brass, Tri-Metal |                            |

### Environmental Specifications

#### Temperature

Operating Range

-55 to +165 deg C

Plenum Rating

UL910

### 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/3-ft-plenum-rated-43-10-to-43-10-m-f-spp-250-llpl-low-pim-cable-jumper-caspp250llpl003-3ft-p.aspx>

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CASPP250LLPL003-3FT CAD Drawing

