

6 FT Plenum Rated 4.1/9.5 Mini DIN to 4.3-10 M/F  
SPP-250-LLPL Low PIM Cable Jumper



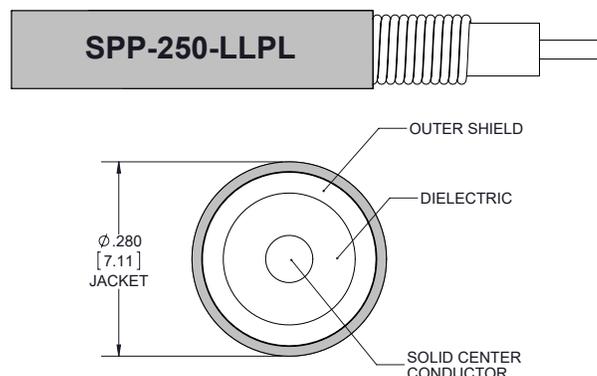
## CASPP250LLPL004-6FT

### Configuration

- Connector 1: 4.1/9.5 Mini DIN 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)
- Plenum Installations
- Low PIM Applications
- Multi-Carrier Communication Systems

### Description

Polyphaser CASPP250LLPL004-6FT is a 6 FT Plenum Rated 4.1/9.5 Mini DIN 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 4.1/9.5 Mini DIN 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 distributed antenna systems (DAS), plenum installations, low PIM applications, and many other RF systems. The CASPP250LLPL004-6FT 4.1/9.5 Mini DIN to 4.3-13 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 4.1/9.5 Mini DIN to 4.3-13 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 4.1/9.5 Mini DIN to 4.3-13 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:  
[6 FT Plenum Rated 4.1/9.5 Mini DIN to 4.3-10 M/F SPP-250-LLPL Low PIM Cable Jumper CASPP250LLPL004-6FT](#)

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## CASPP250LLPL004-6FT

### 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]
Operating Voltage (AC)			750	Vrms

### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.45	0.7	1	2.5	5.8	GHz
Insertion Loss (Max.)	0.28	0.34	0.4	0.69	1.08	dB

**Electrical Specification Notes:**

PIM test results vary between cables

The Insertion Loss data above is based on the performance specifications of the coax used in this assembly. The Insertion Loss includes an estimated insertion loss of  $0.04 \cdot \sqrt{FGHz}$  dB per connector.

### Mechanical Specifications

**Size**

Length 72 in [182.88 cm]  
Weight 0.59 lbs [267.62 g]

**Cable**

Cable Type SPP-250-LLPL  
Impedance 50 Ohms  
Inner Conductor Type Solid  
Inner Conductor Material and Plating Copper, Bare  
Dielectric Type PTFE  
Number of Shields 1  
Shield Layer 1 Helically Corrugated Copper Tube  
Outer Conductor Material and Plating Copper  
Outer Conductor Diameter 0.25 in [6.35 mm]

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## CASPP250LLPL004-6FT

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]

### Connectors

Description	Connector 1	Connector 2
Type	4.1/9.5 Mini DIN 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
Seal Gasket Material		Silicone Rubber

### Environmental Specifications

<b>Temperature</b>	
Operating Range	-55 to +200 deg C
Storage Range	-55 to +200 deg C
Plenum Rating	UL910

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### Compliance Certifications

#### Plotted and Other Data

Notes:

- Values at 25°C, sea level.

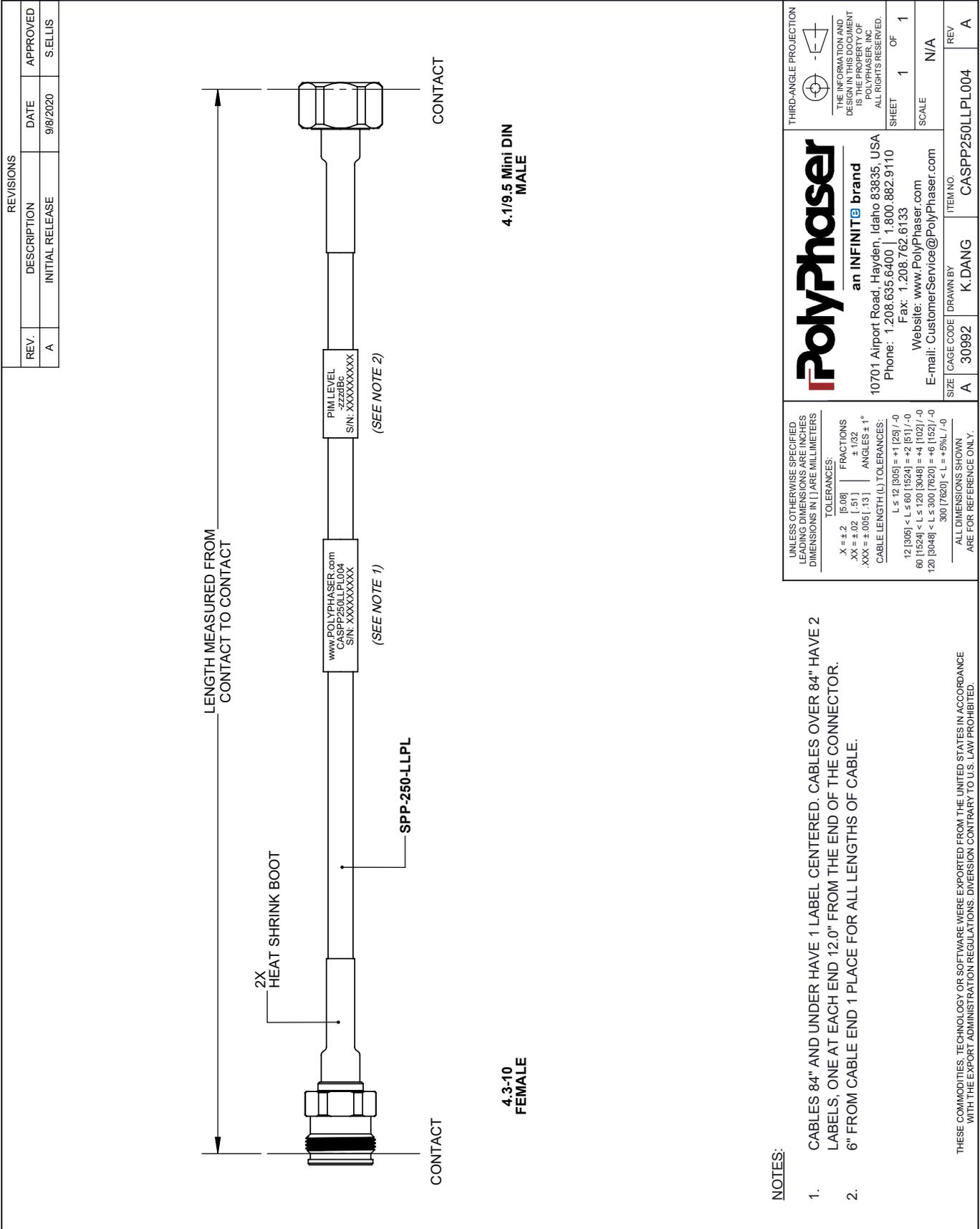
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URL: <https://www.polyphaser.com/6-ft-plenum-rated-41-95-mini-din-to-43-10-m-f-spp-250-llpl-low-pim-cable-jumper-caspp250llpl004-6ft-p.aspx>

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CASPP250LLPL004-6FT CAD Drawing



NOTES:

1. CABLES 84" AND UNDER HAVE 1 LABEL CENTERED. CABLES OVER 84" HAVE 2 LABELS, ONE AT EACH END 12.0" FROM THE END OF THE CONNECTOR.
2. 6" FROM CABLE END 1 PLACE FOR ALL LENGTHS OF CABLE.

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