

Plenum 4.1/9.5 Mini DIN Male to 4.3-10 Female Low PIM  
Cable Using SPP-250-LLPL Coax , LF Solder



RF Cable Assemblies Technical Data Sheet

PE3C5834

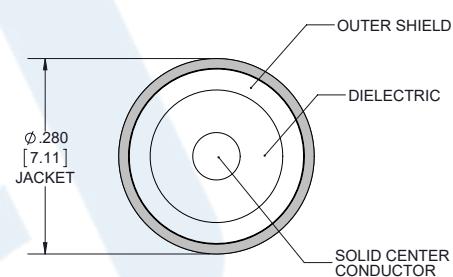
**Configuration**

- 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
- Shielding Effectivity > 100 dB
- 76% Phase Velocity
- FEP Jacket
- 100% Tested with PIM Test Results Marked on Cable
- UL910 Plenum Rated Cable
- Lightweight and Extremely Flexible
- Low Loss with Excellent VSWR
- IP67 (when mated)



**Applications**

- General Purpose
- Laboratory Use
- Low PIM Applications
- Distributed Antenna Systems (DAS)
- Plenum Installations
- Multi-Carrier Communication Systems
- PIM Testing

**Description**

Pasternack's PE3C5834 4.1/9.5 Mini DIN male to 4.3-10 female cable using SPP-250-LLPL coax is part of our full line of RF components available for same-day shipping. Pasternack's corrugated RF cable assemblies are ideal for applications where durability and high power are needed. This Pasternack 4.1/9.5 Mini DIN to 4.3-10 cable assembly has a male to female gender configuration with 50 ohm corrugated SPP-250-LLPL coax. The PE3C5834 4.1/9.5 Mini DIN male to 4.3-10 female cable assembly operates to 5.8 GHz. Our low PIM design also offers excellent passive intermodulation performance with PIM levels better than -160 dBc.

Custom versions of most RF cable assemblies can be built and shipped same day. Custom cable assembly lengths can be obtained by specifying the desired length on the web site at time of order or by contacting a sales representative. Other available RF cable assembly value added services include connector orientation or clocking, heat shrink booting and custom labeling. RF testing can also be performed to document the electrical performance of your cable assembly.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Plenum 4.1/9.5 Mini DIN Male to 4.3-10 Female Low PIM Cable Using SPP-250-LLPL Coax , LF Solder PE3C5834](#)



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#### 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]		$\Omega/1000ft$ [ $\Omega/Km$ ]

#### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.45	0.7	1	2.5	5.8	GHz
Insertion Loss (Max.)	0.038	0.048	0.057	0.094	0.148	dB/ft
	0.12	0.16	0.19	0.31	0.49	dB/m

#### Electrical Specification Notes:

Insertion loss does not include the loss of the connectors. Insertion loss is estimated as  $0.04 * \text{SQRT}(F\text{GHz})$  dB per connector.

#### Mechanical Specifications

##### Cable Assembly

###### 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	4.1/9.5 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

#### Mechanical Specification Notes:

\*All cable assemblies have a length tolerance of 1.5% or  $\pm 3/8"$ , whichever is greater.

#### Environmental Specifications

##### Temperature

Operating Range

-55 to +165 deg C

#### Compliance Certifications (see [product page](#) for current document)

#### Plotted and Other Data

Notes:

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Typical Performance Data



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How to Order

Part Number Configuration:

**PE3C5834**

- **xx**

**uu**

Unit of Measure:  
cm = Centimeters  
<blank> = Inches  
Length  
Base Number

Example: PE3C5834-12 = 12 inches long cable  
PE3C5834-100cm = 100 cm long cable

Plenum 4.1/9.5 Mini DIN Male to 4.3-10 Female Low PIM Cable Using SPP-250-LLPL Coax , LF Solder from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

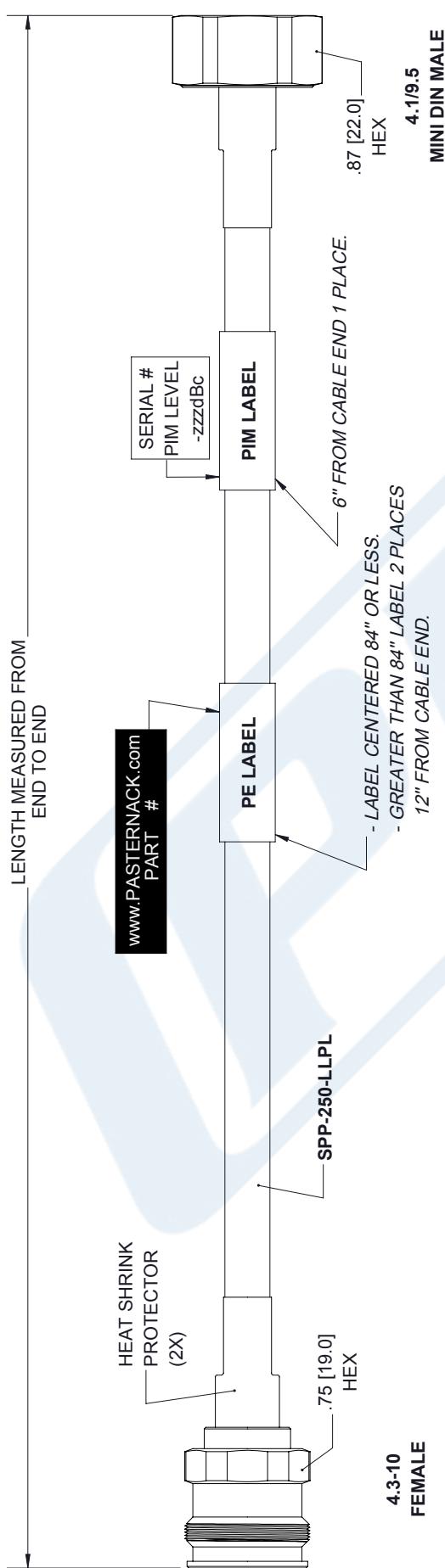
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Plenum 4.1/9.5 Mini DIN Male to 4.3-10 Female Low PIM Cable Using SPP-250-LLPL Coax , LF Solder PE3C5834](https://www.pasternack.com/4.1-9.5-mini-din-male-4.3-10-female-spp250llpl-cable-assembly-pe3c5834-p.aspx)

URL: <https://www.pasternack.com/4.1-9.5-mini-din-male-4.3-10-female-spp250llpl-cable-assembly-pe3c5834-p.aspx>

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# PE3C5834 CAD Drawing

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STANDARD TOLERANCES		
.X	$\pm 0.2$	
.XX	$\pm 0.01$	
.XXX	$\pm 0.005$	

ONLY TO DIMENSIONS IN INCHES

PASTERNACK® THE ENGINEER'S RESOURCE		DWG TITLE	CAD FILE	SCALE	SIZE	Comments
Pasternack Enterprises, Inc. P.O. Box 16759   Irvine   CA   92623		PE3C5834	12/21/18	N/A	N/A	
Phone: (949) 261-1920   Fax: (949) 261-7451 Website: <a href="http://www.pasternack.com">www.pasternack.com</a>   E-Mail: <a href="mailto:sales@pasternack.com">sales@pasternack.com</a>		CAGE CODE	53919			CN2379