



Plenum 4.3-10 Female to N Male Right Angle  
Low PIM Cable 150 cm Length Using SPP-250-LLPL Coax  
Using Times Microwave Parts

## RF Cable Assemblies Technical Data Sheet

**PE3C6241-150CM**

### Configuration

- Connector 1: 4.3-10 Female
- Connector 2: N Male Right Angle
- 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)
- Using Times Microwave Components

### Applications

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

### Description

Pasternack's PE3C6241-150CM 4.3-10 female to type N male right angle 150 cm 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 4.3-10 to type N cable assembly has a female to male gender configuration with 50 ohm corrugated SPP-250-LLPL coax. The PE3C6241-150CM 4.3-10 female to type N male cable assembly operates to 5.8 GHz. Our low PIM design also offers excellent passive intermodulation performance with PIM levels better than -160 dBc. The right angle type N interface on the SPP-250-LLPL cable allows for easier connections in tight spaces. Times Microwave cable is used in each assembly and TMS components are used to form connections with the super flexible low PIM cable. These cable assemblies are expertly built to satisfy your specific need with high quality Times Microwave Systems manufactured parts.

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 4.3-10 Female to N Male Right Angle Low PIM Cable 150 cm Length Using SPP-250-LLPL Coax Using Times Microwave Parts PE3C6241-150CM](#)



Plenum 4.3-10 Female to N Male Right Angle  
Low PIM Cable 150 cm Length Using SPP-250-LLPL Coax  
Using Times Microwave Parts

## RF Cable Assemblies Technical Data Sheet

**PE3C6241-150CM**

### 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		-165	-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.)	0.38	0.45	0.51	0.75	1.1	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 0.1\*SQRT(FGHz) dB for the female connector and 0.12 dB for the male connector.

### Mechanical Specifications

#### Cable Assembly

Weight 0.58 lbs [263.08 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  
Shield Layer 1 Helically Corrugated Copper Tube  
Outer Conductor Material and Plating Copper  
Outer Conductor Diameter 0.25 in [6.35 mm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Plenum 4.3-10 Female to N Male Right Angle Low PIM Cable 150 cm Length Using SPP-250-LLPL Coax Using Times Microwave Parts PE3C6241-150CM](#)



Plenum 4.3-10 Female to N Male Right Angle  
Low PIM Cable 150 cm Length Using SPP-250-LLPL Coax  
Using Times Microwave Parts

## RF Cable Assemblies Technical Data Sheet

**PE3C6241-150CM**

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	4.3-10 Female	N Male Right Angle
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Phosphor Bronze, Silver	Phosphor Bronze, Silver
Contact Plating Specification	200μ in	196μ in
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating	Brass, Tri-Metal	
Outer Conductor Plating Specification	80μ in	
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification	80μ in	118μ in
Coupling Nut Material and Plating		Brass, Tri-Metal
Coupling Nut Plating Specification		118μ in
Torque		10 in-lbs [1.13 Nm]

### Environmental Specifications

#### Temperature

Operating Range	-55 to +200 deg C
Storage Range	-55 to +200 deg C
Plenum Rating	UL910

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

### Plotted and Other Data

Notes:

- Values at 25°C, sea level.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Plenum 4.3-10 Female to N Male Right Angle Low PIM Cable 150 cm Length Using SPP-250-LLPL Coax Using Times Microwave Parts PE3C6241-150CM](#)



Plenum 4.3-10 Female to N Male Right Angle  
Low PIM Cable 150 cm Length Using SPP-250-LLPL Coax  
Using Times Microwave Parts

## RF Cable Assemblies Technical Data Sheet

**PE3C6241-150CM**

### How to Order

Part Number Configuration:

**PE3C6241**

**- xx**

**uu**

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

Example: PE3C6241-12 = 12 inches long cable  
PE3C6241-100cm = 100 cm long cable

Plenum 4.3-10 Female to N Male Right Angle Low PIM Cable 150 cm Length Using SPP-250-LLPL Coax Using Times Microwave Parts 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 4.3-10 Female to N Male Right Angle Low PIM Cable 150 cm Length Using SPP-250-LLPL Coax Using Times Microwave Parts PE3C6241-150CM](https://www.pasternack.com/4.3-10-female-n-male-spp250llpl-cable-assembly-pe3c6241-150cm-p.aspx)

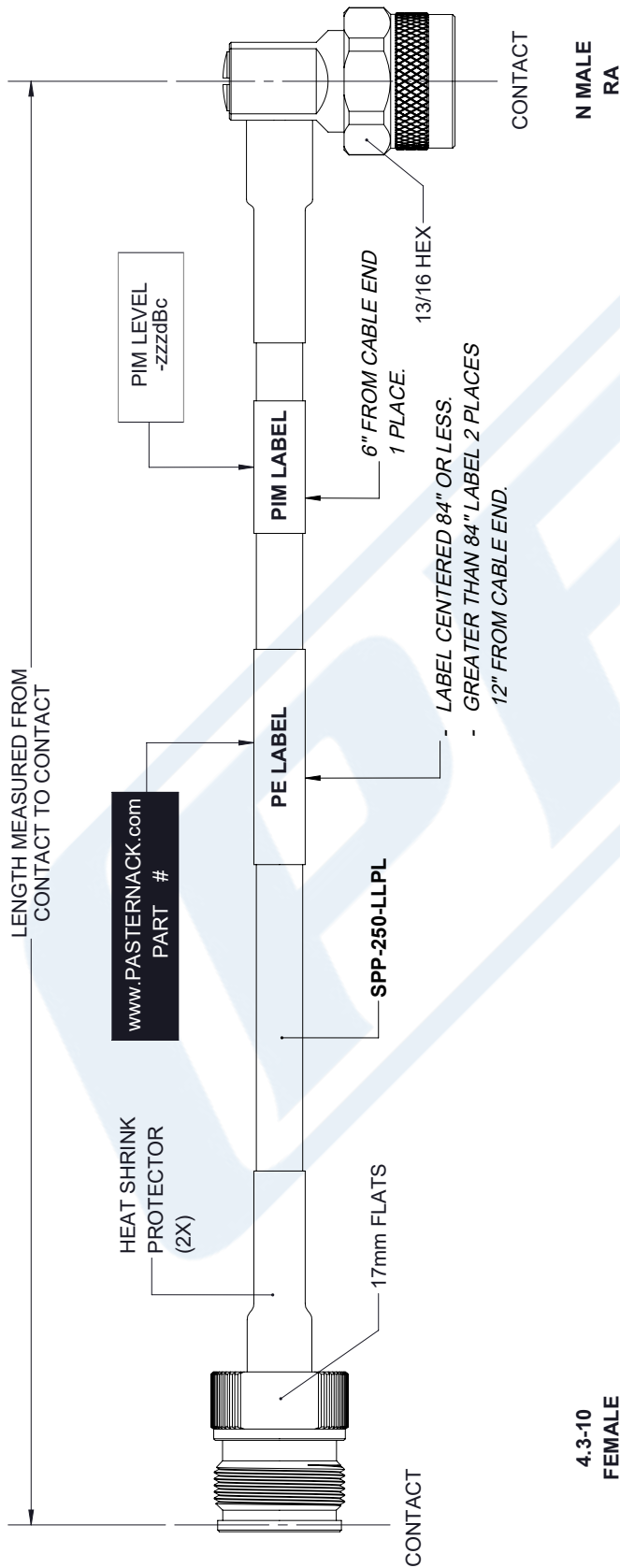
URL: <https://www.pasternack.com/4.3-10-female-n-male-spp250llpl-cable-assembly-pe3c6241-150cm-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

# PE3C6241-150CM CAD Drawing

Plenum 4.3-10 Female to N Male Right Angle Low PIM Cable 150 cm  
Length Using SPP-250-LLPL Coax Using Times Microwave Parts

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	04/09/19	SELLIS



UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE IN INCHES DIMENSIONS IN [ ] ARE MILLIMETERS	
TOLERANCES:	FRACTIONS
X±.2 [5.08]	±.132
XX±.01 [.25]	±.13
XXX±.005 [.13]	ANGLES ± 1°
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.	
THIRD-ANGLE PROJECTION	

<b>PE PASTERNAK</b> an INFINITI brand	
Pasternack Enterprises, Inc. P.O. Box 16759, Irvine, CA 92623. Phone: 1.949.261.1920   1.866.727.8376 Fax: 1.949.261.7451 www.pasternack.com   e-mail: sales@pasternack.com	
SIZE	CAGE
A	53919
DRAWN BY	K.DANG
PART NUMBER	PE3C6241
REV	A

THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNAK CORPORATION. ALL RIGHTS RESERVED.	
SHEET	1 OF 1
SCALE	N/A

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.