



## Plenum N Female to NEX10 Male Low PIM Cable 200 cm Length Using SPP-250-LLPL Coax Using Times Microwave Parts

### RF Cable Assemblies Technical Data Sheet

PE3C6254-200CM

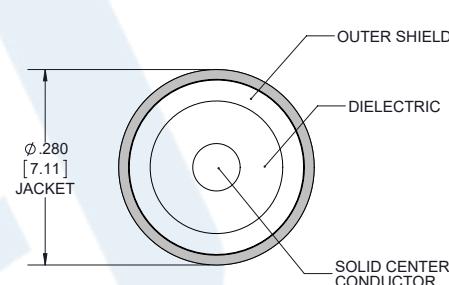
#### Configuration

- Connector 1: TC-SPP250-NF-LP  
N Female
- Connector 2: TC-250-XNM-LP  
NEX10 Male
- Cable: 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 PE3C6254-200CM type N female to NEX10 male 200 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 type N to NEX10 cable assembly has a female to male gender configuration with 50 ohm corrugated SPP-250-LLPL coax. The PE3C6254-200CM type N female to NEX10 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. 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 N Female to NEX10 Male Low PIM Cable 200 cm Length Using SPP-250-LLPL Coax Using Times Microwave Parts PE3C6254-200CM](#)



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

#### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.45	0.7	1	2.5	5.8	GHz
Insertion Loss (Max.)	0.42	0.51	0.58	0.88	1.33	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 dB for the female connector and  $0.1*\text{SQRT}(F\text{GHz})$  dB for the male connector.

#### Mechanical Specifications

##### Cable Assembly

Description	Minimum	Typical	Maximum	Units
Length		78.7 [200.0]		in [cm]
Jacket Diameter		0.28 [7.11]		in [mm]
One Time Minimum Bend Radius	1.25			in
Bending Moment		0.8		lbs-ft

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#### Cable Characteristics

Description	Specification
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]
Jacket Material	FEP, Blue

#### Connector Characteristics

Description	Connector 1	Connector 2
Type	N Female	NEX10 Male
Impedance	50 Ohms	50 Ohms
Mating Cycles		500
Contact Material and Plating	Phosphor Bronze, Silver	Brass, Silver
Contact Plating Specification	196 $\mu$ in	100 $\mu$ in
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating	Brass, Tri-Metal	
Outer Conductor Plating Specification	118 $\mu$ in	
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification	118 $\mu$ in	100 $\mu$ in
Coupling Nut Material and Plating		Brass, Tri-Metal
Coupling Nut Plating Specification		100 $\mu$ in
Torque	10 in-lbs 1.13 Nm	13.28 in-lbs 1.5 Nm

Mechanical Specification Notes:

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### Environmental Specifications

Description	Specification
Temperature Operating Range	-55 to +200 deg C
Temperature 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.

### Typical Performance Data



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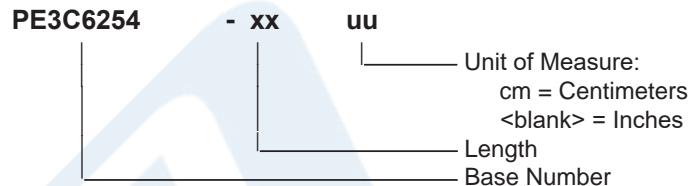
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**How to Order**

Part Number Configuration:



Example: PE3C6254-12 = 12 inches long cable  
PE3C6254-100cm = 100 cm long cable

Plenum N Female to NEX10 Male Low PIM Cable 200 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.

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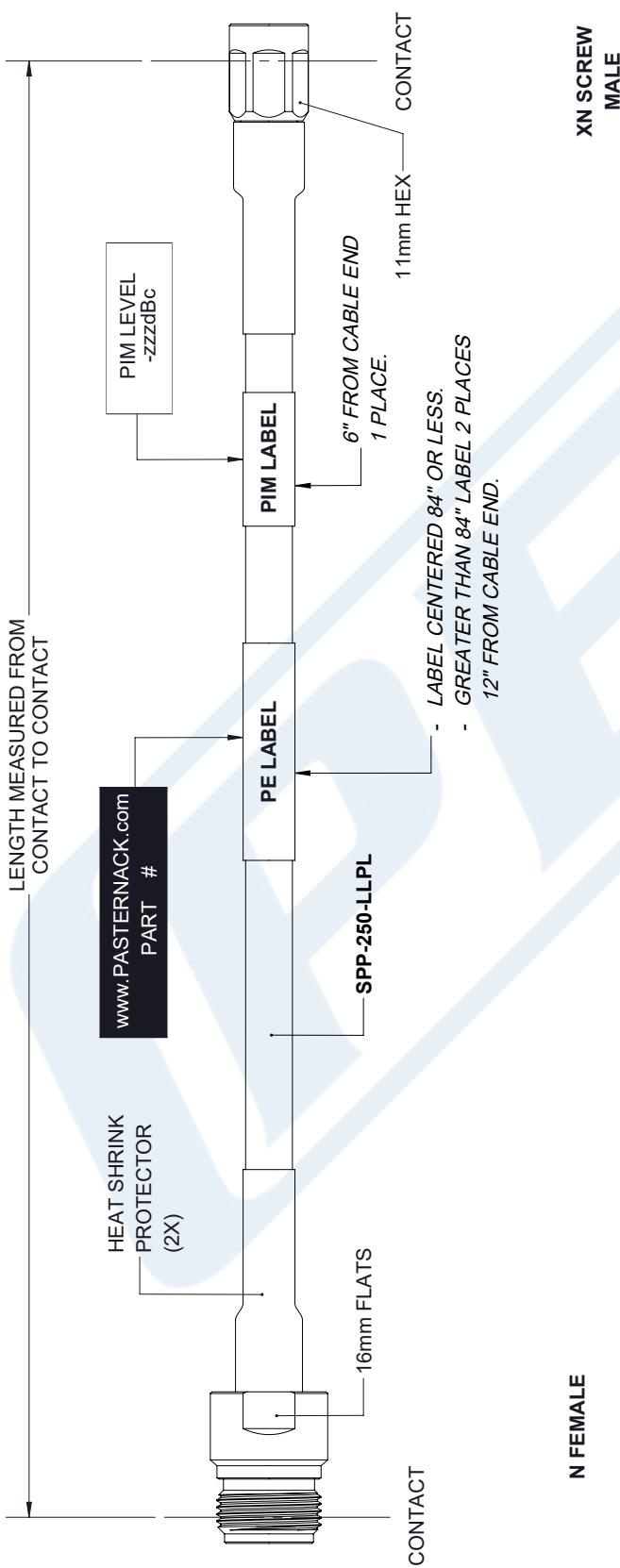
URL: <https://www.pasternack.com/n-female-nex10-male-spp250llpl-cable-assembly-pe3c6254-200cm-p.aspx>

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# PE3C6254-200CM CAD Drawing

Plenum N Female to NEX10 Male Low PIM Cable 200 cm Length  
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REVISIONS				
REV.	DESCRIPTION	DATE	APPROVED	
A	INITIAL RELEASE	04/09/19	S.ELLIS	



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SCALE	N/A
SIZE	REV
CAGE A 53919	K.DANG
	PE3C6254

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LEADING DIMENSIONS ARE INCHES  
DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:  
X=± .01 [ .25 ]  
.XX=± .005 [ .13 ]  
XXX=± .005 [ .13 ]

FRACTIONS  
± 1/32  
ANGLES ± 1°

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