



### PE3C6213

### Configuration

Connector 1: N Male
Connector 2: SMA Male
Cable Type: SPP-250-LLPL
Coax Flex Type: Corrugated

### **Features**

- Max Frequency 5.8 GHzLow PIM: -155 dBc Max
- Shielding Effectivity > 100 dB
- 76% Phase Velocity
- · FEP Jacket

# SPP-250-LLPL OUTER SHIELD DIELECTRIC (7.11] JACKET SOLID CENTER

### **Applications**

· General Purpose

· Laboratory Use

· Low PIM Applications

### **Description**

Pasternack's PE3C6213 type N male to SMA male 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 SMA cable assembly has a male to male gender configuration with 50 ohm corrugated SPP-250-LLPL coax. The PE3C6213 type N male to SMA male cable assembly operates to 5.8 GHz. Our low PIM design also offers excellent passive intermodulation performance with PIM levels better than -155 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.

### **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			-155	dBc
IM3 (2x43dBm Tones) at 850 MHz or 1900 MHz				
Capacitance		27 [88.58]		pF/ft [pF/m]
Inductance		0.067 [0.22]		uH/ft [uH/m]





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### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
DC Resistance Inner Conductor		3 [9.84]		Ohms/1000ft [Ohms/Km]

### **Specifications by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	5.8	GHz
Insertion Loss (Max.)	0.04	0.06	0.08	0.12	0.15	dB/ft
	0.13	0.2	0.26	0.39	0.49	dB/m

**Electrical Specification Notes:** 

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1\*SQRT(FGHz) dB for the N male connector and 0.15 for the SMA male connector

SPP-250-LLPL

50 Ohms

FEP, Blue

0.28 in [7.11 mm]

PTFE

### **Mechanical Specifications**

**Cable Assembly** 

 Width/Diameter
 0.5 in [12.7 mm]

 Weight
 0.105 lbs [47.63 g]

Cable Cable Type

Cable

Impedance

Inner Conductor Type Solid
Inner Conductor Material and Plating Copper

Dielectric Type Number of Shields

Outer Conductor 1 Material and Plating Copper

Jacket Material

Jacket Diameter

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
Туре	N Male	SMA Male
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles		500
Contact Material and Plating	Phosphor Bronze, Silver	Brass, Silver
Contact Plating Specification	196 µin	200µin
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification	118 µin	80 μin
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Plating Specification	118 µin	80 μin
Torque	7.08 in-lbs 0.8 Nm	

### **Environmental Specifications**

Operating Range Temperature

-40 to +125 deg C

Compliance Certifications (see product page for current document)

### **Plotted and Other Data**

Notes:





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**Typical Performance Data** 

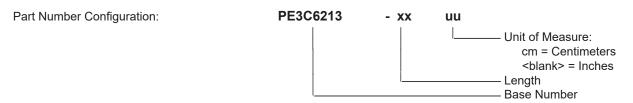






### PE3C6213

### **How to Order**



Example: PE3C6213-12 = 12 inches long cable

PE3C6213-100cm = 100 cm long cable

Plenum N Male to SMA Male Low PIM Cable 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 N Male to SMA Male Low PIM Cable Using SPP-250-LLPL Coax Using Times Microwave Parts PE3C6213

URL: https://www.pasternack.com/n-male-to-sma-male-cable-using-spp-250-llpl-pe3c6213-p.aspx

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