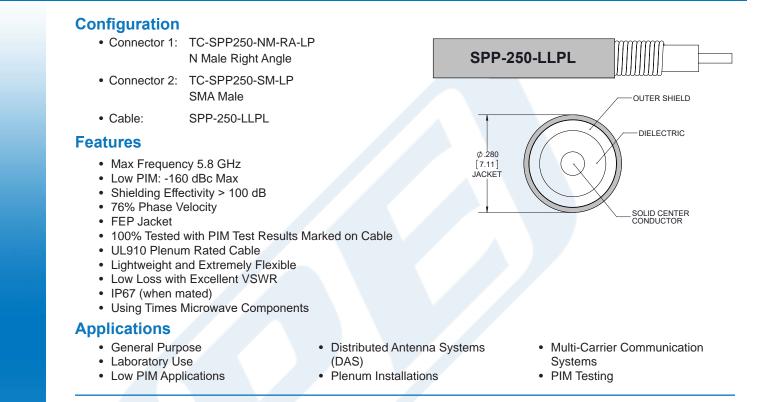




PE3C6209-100CM

## RF Cable Assemblies Technical Data Sheet



### Description

Pasternack's PE3C6209-100CM type N male right angle to SMA male 100 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 SMA cable assembly has a male to male gender configuration with 50 ohm corrugated SPP-250-LLPL coax. The PE3C6209-100CM 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 -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 N Male Right Angle to SMA Male Low PIM Cable 100 cm Length Using SPP-250-LL-PL Coax Using Times Microwave Parts PE3C6209-100CM

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 Phone: (866) 727-8376 or (949) 261-1920 • Fax: (949) 261-7451

Sales@Pasternack.com • Techsupport@Pasternack.com



## **RF Cable Assemblies Technical Data Sheet**



## PE3C6209-100CM

#### **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.)	0.4	0.43	0.46	0.58	0.76	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 0.12 dB for the right angle connector and 0.15 dB for the straight connector.

### **Mechanical Specifications**

#### Cable Assembly

Description	Minimum	Typical	Maximum	Units
Length		39.4 [100.0]		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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## **RF Cable Assemblies Technical Data Sheet**

## PE3C6209-100CM

**Cable Characteristics** 

Specification	
SPP-250-LLPL	
50 Ohms	
Solid	
Copper	
PTFE	
1	
Helically Corrugated Copper Tube	
Copper	
0.25 in [6.35 mm]	
FEP, Blue	
	SPP-250-LLPL 50 Ohms Solid Copper PTFE 1 Helically Corrugated Copper Tube Copper 0.25 in [6.35 mm]

#### **Connector Characteristics**

Description	Connector 1	Connector 2
Гуре	N Male Right Angle	SMA Male
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Phosphor Bronze, Silver	Brass, Silver
Contact Plating Specification	196µ in	196µ in
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification	118µ in	118µ in
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Plating Specification	118µ in	118µ in
Torque	10 in-lbs 1.13 Nm	10 in-lbs 1.13 Nm

Mechanical Specification Notes:

### **Environmental Specifications**

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

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Plenum N Male Right Angle to SMA Male Low PIM Cable 100 cm Length Using SPP-250-LLPL Coax Using Times Microwave Parts

# **RF Cable Assemblies Technical Data Sheet** PE3C6209-100CM Compliance Certifications (see product page for current document) **Plotted and Other Data** Notes: • Values at 25°C, sea level. **Typical Performance Data** PIM LEVEL Test Result> dBc PIM LEVEL <Test Result> dBc

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 Right Angle to SMA Male Low PIM Cable 100 cm Length Using SPP-250-LL-PL Coax Using Times Microwave Parts PE3C6209-100CM

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## **RF Cable Assemblies Technical Data Sheet**

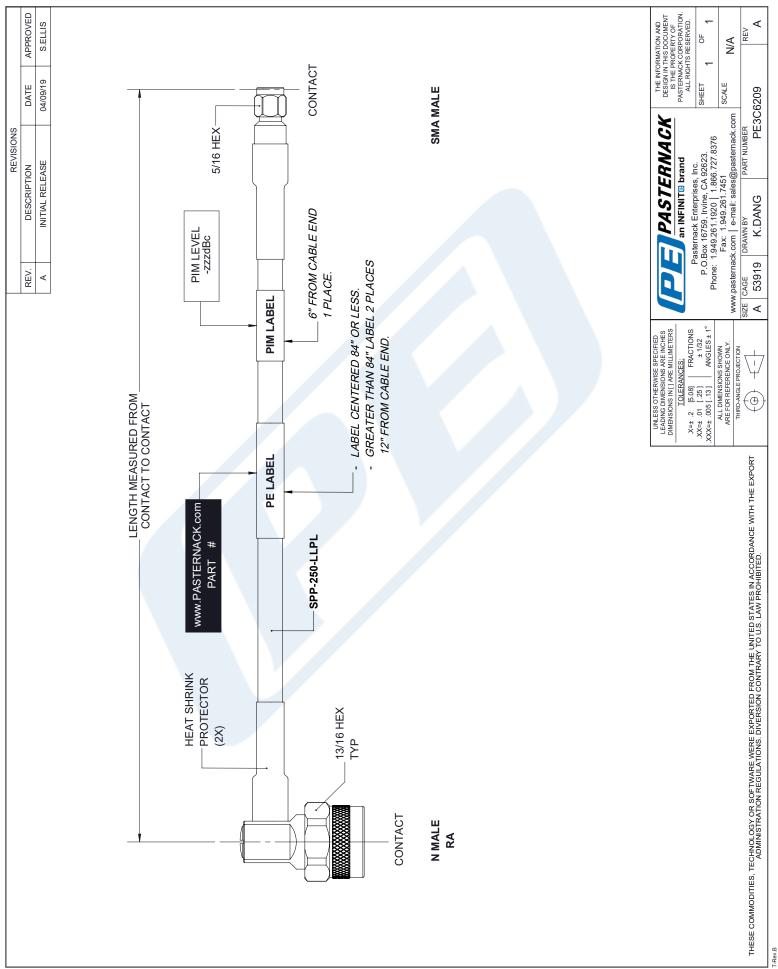
## PE3C6209-100CM

Part Number	Configuration:	P	E3C6209	- xx	uu	
					I	— Unit of Measure:
						cm = Centimeters <blank> = Inches</blank>
				İ		- Length
						— Base Number
Example:	PE3C6209-12 = 12 ind PE3C6209-100cm = 1		9			
Microwave Parts	tight Angle to SMA Male	orises has same	day shipment	for domestic	and Intern	ational orders. Our RF,
microwave and m	illimeter wave products	s maintain a 99.4	% availability	and are part	of the broa	dest selection in the industry
inventory and cer		ale Right Angle				information including price, ength Using SPP-250-LLPL
URL: https://www	.pasternack.com/n-mal	e-sma-male-spp	250llpl-cable-a	assembly-pe	3c6209-100	)cm-p.aspx
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PE3C6209-100CM CAD Drawing Plenum N Male Right Angle to SMA Male Low PIM Cable 100 cm Length





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