

**RF Cable Assemblies Technical Data Sheet** 



PE3C6203-150CM

#### Configuration Connector 1: TC-SPP250-NM-RA-LP SPP-250-LLPL N Male Right Angle Connector 2: TC-SPP250-NF-LP N Female OUTER SHIELD • Cable: SPP-250-LLPL DIELECTRIC **Features** Ø 280 • Max Frequency 5.8 GHz [7.11] JACKET · Low PIM: -160 dBc Max • Shielding Effectivity > 100 dB 76% Phase Velocity SOLID CENTER CONDUCTOR 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 Distributed Antenna Systems • Multi-Carrier Communication Laboratory Use (DAS) Systems Low PIM Applications Plenum Installations • PIM Testing

## Description

Pasternack's PE3C6203-150CM type N male right angle to type N female 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 type N to type N cable assembly has a male to female gender configuration with 50 ohm corrugated SPP-250-LLPL coax. The PE3C6203-150CM type N male to type N 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. 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 N Female Low PIM Cable 150 cm Length Using SPP-250-LLPL Coax Using Times Microwave Parts PE3C6203-150CM

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

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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]		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.)	0.41	0.46	0.51	0.69	0.95	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 male connector and 0.1 for the female connector.

## **Mechanical Specifications**

#### Cable Assembly

59.1 [150.0]	in [cm]
0 00 17 441	
0.28 [7.11]	in [mm]
	in
0.8	lbs-ft
	. ,

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**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
Туре	N Male Right Angle	N Female
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Phosphor Bronze, Silver	Phosphor Bronze, Silver
Contact Plating Specification	196µ in	196µ in
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating		Brass, Tri-Metal
Outer Conductor Plating Specification		118µ in
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	
Coupling Nut Plating Specification	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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RF Cab	ole Assemblies Technical Data Sheet	PE3C6203-150CM
	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</test>	
	PIM LEVEL	
	<test result=""> d</test>	Bc
	Click the following link (or enter part number in "SEARCH" on website) to o	obtain additional part information including price,

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# **RF Cable Assemblies Technical Data Sheet**

## PE3C6203-150CM

Example: PE3C6203-12 = 12 inches long cable PE3C6203-100cm = 100 cm long cable Plenum N Male Right Angle to N Female Low PIM Cable 150 cm Length Using SPP-250-LLPL Coax Using Times Microwave Parts from Pastemack 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 indu Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including pri inventory and certifications: Plenum N Male Right Angle to N Female Low PIM Cable 150 cm Length Using SPP-250-LL Coax Using Times Microwave Parts PE3C6203-150CM URL: https://www.pastemack.com/n-male-n-female-spp250llpl-cable-assembly-pe3c6203-150Cm-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 necess make modifications to the part and/or the documentation of the part, in order to implement Improvements. Pastemack reserves the right to make such of as required. Unless otherwise stated, all specifications are nominal. Pastemiack does not make any representation or warranty regarding the suitability of I described herein for any particular purpose, and Pastemack does not assume any liability arising out of the use of any part or documentation.	Part Numbe	r Configuration:	PE3C6203	- xx	uu 	— Unit of Measure: cm = Centimeters <blank> = Inches</blank>
PE3C6203-100cm = 100 cm long cable Plenum N Male Right Angle to N Female 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 indu Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including pri- inventory and certifications: Plenum N Male Right Angle to N Female Low PIM Cable 150 cm Length Using SPP-250-LL Coax Using Times Microwave Parts PE3C6203-150CM URL: https://www.pasternack.com/n-male-n-female-spp250llpl-cable-assembly-pe3c6203-150cm-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 necess make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such ch as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of th						
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PE3C6203-150CM CAD Drawing Plenum N Male Right Angle to N Female Low PIM Cable 150 cm Length Using SPP-250-LLPL Coax Using Times Microwave Parts

