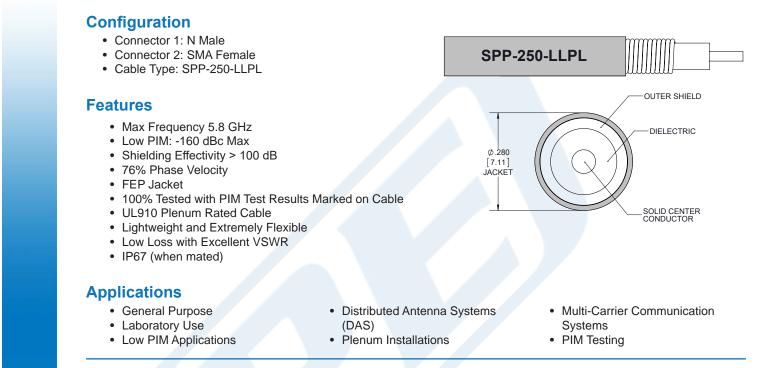




## **RF Cable Assemblies Technical Data Sheet**

### PE3C5881-150CM



#### Description

Pasternack's PE3C5881-150CM type N male to SMA 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 SMA cable assembly has a male to female gender configuration with 50 ohm corrugated SPP-250-LLPL coax. The PE3C5881-150CM type N male to SMA 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.

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 to SMA Female Low PIM Cable 150 cm Length Using SPP-250-LLPL Coax , LF Solder PE3C5881-150CM





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

### PE3C5881-150CM

#### **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			-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.)	0.25	0.31	0.37	0.59	0.93	dB

Electrical Specification Notes:

The insertion loss data above is based on the performance specifications of the coax cable used in this assembly. The insertion loss includes an estimated insertion loss of 0.04\*SQRT(FGHz) dB maximum per connector.

#### Mechanical Specifications

Cable Assembly	
Length*	59.0551 in [150 cm]
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
Outer Conductor Material and Plating	Copper
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]

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 Female Low PIM Cable 150 cm Length Using SPP-250-LLPL Coax , LF Solder PE3C5881-150CM





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

### PE3C5881-150CM

#### Connectors

Description	Connector 1	Connector 2	
Туре	N Male	SMA Female	
Impedance	50 Ohms	50 Ohms	
Contact Material and Plating	Phosphor Bronze, Silver	Beryllium Copper, Silver	
Dielectric Type	PTFE	PTFE	
Outer Conductor Material and Plating		Brass, Tri-Metal	
Body Material and Plating	Brass, Tri-Metal Brass, Tri-Meta		
Coupling Nut Material and Plating	Brass, Tri-Metal		

Mechanical Specification Notes:

\*All cable assemblies have a length tolerance of 1.5% or  $\pm 3/8$ ", whichever is greater.

#### **Environmental Specifications**

Temperature Operating Range

-55 to +165 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data Notes:

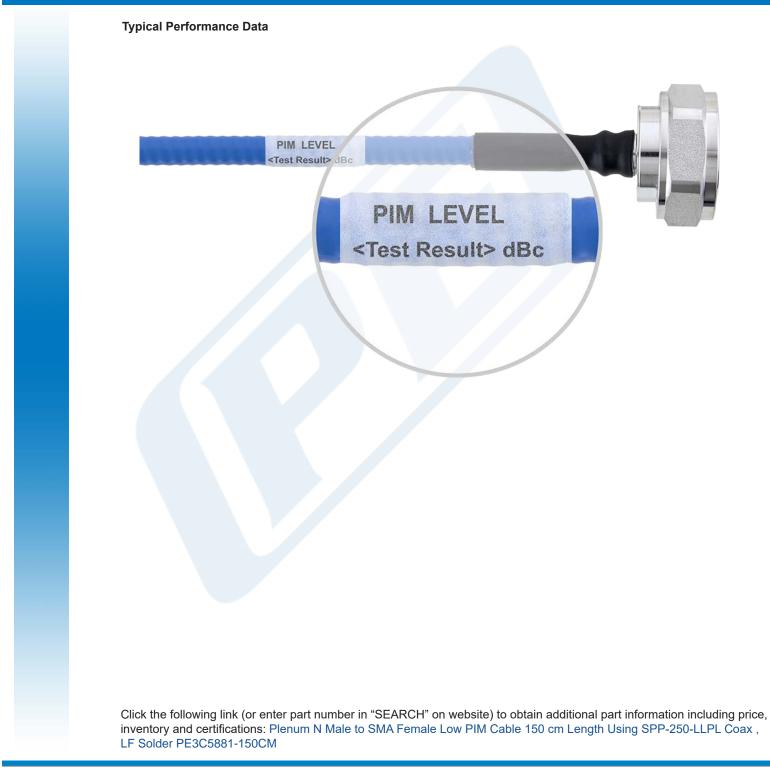
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## **RF Cable Assemblies Technical Data Sheet**



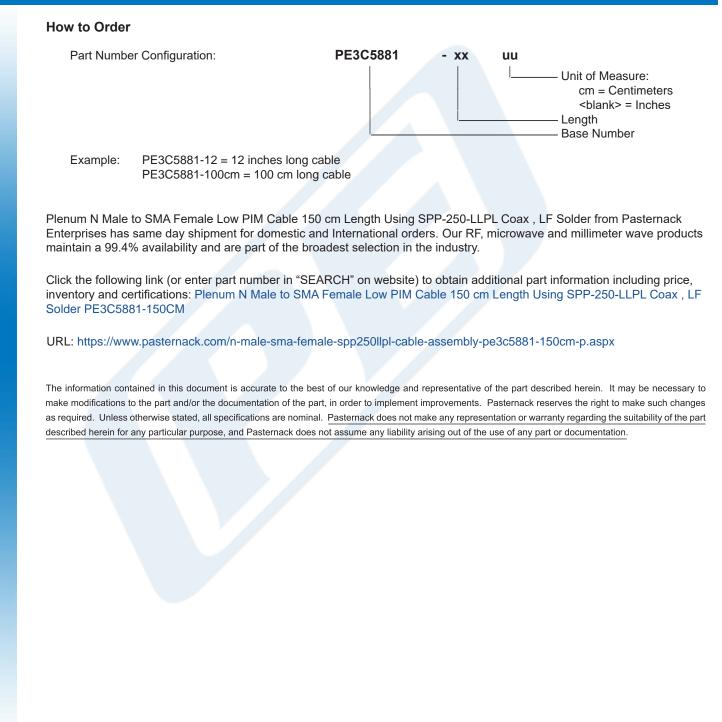






# **RF Cable Assemblies Technical Data Sheet**

### PE3C5881-150CM



# PE3C5881-150CM CAD Drawing

Plenum N Male to SMA Female Low PIM Cable 150 cm Length Using SPP-250-LLPL Coax , LF Solder

