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

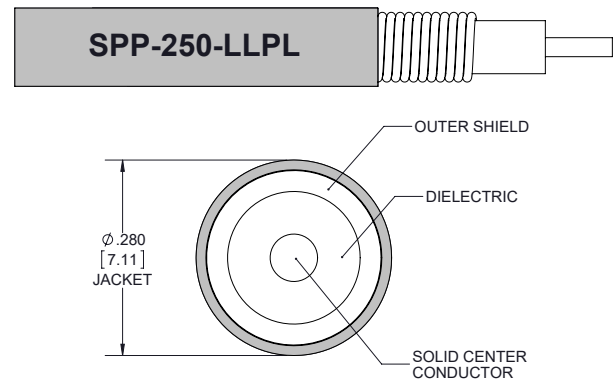## PE3C6212

Configuration

- Connector 1: N Male TC-250-NM-LP
- Connector 2: SMA Male Right Angle TC-SPP250-SM-RA-LP
- Cable Type: SPP-250-LLPL
- Coax Flex Type: Corrugated

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

SPP-250-LLPL

OUTER SHIELD

DIELECTRIC

∅ .280 [7.11] JACKET

SOLID CENTER CONDUCTOR

Applications

- General Purpose
- Laboratory Use
- Low PIM Applications
- Distributed Antenna Systems (DAS)
- Plenum Installations
- Multi-Carrier Communication Systems
- PIM Testing

Description

Pasternack's PE3C6212 type N male to SMA male right angle 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 PE3C6212 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 SMA 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.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		5.8	GHz
VSWR			1.4:1	
Velocity of Propagation		76		%

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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
RF Shielding	100			dB
Passive Intermodulation		-165	-160	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]
DC Resistance Inner Conductor		3 [9.84]		Ohms/1000ft [Ohms/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.)	0.038	0.048	0.057	0.094	0.148	dB/ft
	0.12	0.16	0.19	0.31	0.49	dB/m

Electrical Specification Notes:
PIM test results vary between cables
Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1*SQRT(FGHz) dB for the straight connector and 0.15*SQRT(FGHz) dB for the right angle connector.

Mechanical Specifications

Cable Assembly
Weight   0.21 lbs [95.25 g]

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
Shield Layer 1   Helically Corrugated Copper Tube
Outer Conductor 1 Material and Plating   Copper
Outer Conductor Diameter   0.25 in [6.35 mm]
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]

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Connectors

Description	Connector 1	Connector 2
Type	N Male	SMA Male Right Angle
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Right Angle
Contact Material and Plating	Phosphor Bronze, Silver	Phosphor Bronze, Silver
Contact Plating Specification	196 μin	196 μin
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification	118 μin	118 μin
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Plating Specification	118 μin	118 μin
Torque	9.74 in-lbs 1.1 Nm	10 in-lbs 1.13 Nm

Environmental Specifications

Operating Range Temperature	-55 to +200 deg C
Storage Range Temperature	-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.

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Typical Performance Data

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

PE3C6212

How to Order

Part Number Configuration: **PE3C6212** - **xx**   **uu**

Unit of Measure:
cm = Centimeters
<blank> = Inches
Length
Base Number

Example: PE3C6212-12 = 12 inches long cable
PE3C6212-100cm = 100 cm long cable

Plenum N Male to SMA Male Right Angle 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 Right Angle Low PIM Cable Using SPP-250-LLPL Coax Using Times Microwave Parts PE3C6212

URL: https://www.pasternack.com/n-male-sma-male-spp250llpl-cable-assembly-pe3c6212-p.aspx

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PE3C6212 CAD Drawing

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

CONTACT

SMA MALE
RA

5/16 HEX

PIM LEVEL
-zzzdBc

PIM LABEL

6" FROM CABLE END
1 PLACE.

LABEL CENTERED 84" OR LESS.
GREATER THAN 84" LABEL 2 PLACES
12" FROM CABLE END.

PE LABEL

www.PASTERNACK.com
PART #

LENGTH MEASURED FROM
CONTACT TO CONTACT

SPP-250-LLPL

HEAT SHRINK
PROTECTOR
(2X)

13/16 HEX

N MALE

CONTACT

T-Rev.B