



### PE3C6202

### Configuration

Connector 1: N Male TC-250-NM-LP
 Connector 2: N Male TC-250-NM-LP

Cable Type: SPP-250-LLPLCoax 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 OLZBO [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 PE3C6202 type N male to type N 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 type N cable assembly has a male to male gender configuration with 50 ohm corrugated SPP-250-LLPL coax. The PE3C6202 type N male to type N 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. Times Microwave cable is used in each assembly and TMS components are used to form connections with the superflexible 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		%
RF Shielding	100			dB





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### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
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 per connector.

### **Mechanical Specifications**

### **Cable Assembly**

 Width/Diameter
 .94 in [23.88 mm]

 Weight
 0.23 lbs [104.33 g]

### Cable

Cable TypeSPP-250-LLPLImpedance50 OhmsInner Conductor TypeSolidInner Conductor Material and PlatingCopperDielectric TypePTFE

Dielectric Type
Number of Shields
Shield Layer 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
Туре	N Male	N Male
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
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	9.74 in-lbs 1.1 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**

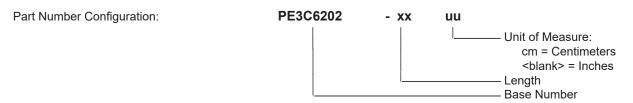






### PE3C6202

### **How to Order**



Example: PE3C6202-12 = 12 inches long cable

PE3C6202-100cm = 100 cm long cable

Plenum N Male to N 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 N Male Low PIM Cable Using SPP-250-LLPL Coax Using Times Microwave Parts PE3C6202

URL: https://www.pasternack.com/n-male-n-male-spp250llpl-cable-assembly-pe3c6202-p.aspx

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