

SOLID CENTER

#### PE3C5883-150CM

#### Configuration

Connector 1: SMA Male
Connector 2: SMA Female
Cable Type: SPP-250-LLPL
Coax Flex Type: Corrugated

#### **Features**

- Max Frequency 5.8 GHz
- Low PIM: -155 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)

# SPP-250-LLPL OUTER SHIELD DIELECTRIC (7.280 [7.11] JACKET

#### **Applications**

- · General Purpose
- Laboratory Use
- · Low PIM Applications

- Distributed Antenna Systems (DAS)
- Plenum Installations
- Multi-Carrier Communication Systems

#### PIM Testing

#### **Description**

Pasternack's PE3C5883-150CM SMA 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 SMA to SMA cable assembly has a male to female gender configuration with 50 ohm corrugated SPP-250-LLPL coax. The PE3C5883-150CM SMA 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 -155 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.

#### **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			-155	dBc
IM3 (2x43dBm Tones) at 850 MHz or 1900 MHz				





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#### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
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.)	0.25	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**

Weight 0.39 lbs [176.9 g]

Cable

SPP-250-LLPL Cable Type Impedance 50 Ohms Inner Conductor Type Solid Inner Conductor Material and Plating Copper Dielectric Type **PTFE** Number of Shields Outer Conductor 1 Material and Plating Copper FEP, Blue Jacket Material 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]

#### **Connectors**

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





### PE3C5883-150CM

#### **Environmental Specifications**

Operating Range Temperature

-55 to +165 deg C

Compliance Certifications (see product page for current document)

**Plotted and Other Data** 

Notes:

**Typical Performance Data** 

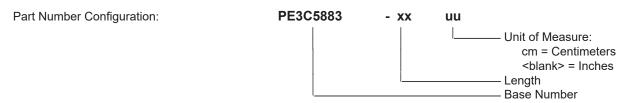






#### PE3C5883-150CM

#### **How to Order**



Example: PE3C5883-12 = 12 inches long cable PE3C5883-100cm = 100 cm long cable

Plenum SMA Male to SMA Female Low PIM Cable 150 cm Length Using SPP-250-LLPL Coax, LF Solder 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 SMA Male to SMA Female Low PIM Cable 150 cm Length Using SPP-250-LLPL Coax, LF Solder PE3C5883-150CM

URL: https://www.pasternack.com/sma-male-sma-female-spp250llpl-cable-assembly-pe3c5883-150cm-p.aspx

The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to impliment improvements. Pasternack Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

