



### PE3C5893

#### Configuration

· Connector 1: SMA Male Right Angle

Connector 2: QMA MaleCable Type: SPP-250-LLPLCoax Flex Type: Corrugated

#### **Features**

- Max Frequency 5.8 GHz
- Low PIM: -150 dBc Max
- Shielding Effectivity > 100 dB
- 76% Phase Velocity
- · FEP Jacket

# SPP-250-LLPL OUTER SHIELD OUTER SHIELD DIELECTRIC SOLID CENTER

# **Applications**

· General Purpose

· Laboratory Use

· Low PIM Applications

### **Description**

Pasternack's PE3C5893 SMA male right angle to QMA 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 SMA to QMA cable assembly has a male to male gender configuration with 50 ohm corrugated SPP-250-LLPL coax. The PE3C5893 SMA male to QMA male cable assembly operates to 5.8 GHz. Our low PIM design also offers excellent passive intermodulation performance with PIM levels better than -150 dBc. The right angle SMA interface on the SPP-250-LLPL cable allows for easier connections in tight spaces.

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			-150	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]





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# **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
DC Resistance Inner Conductor		3 [9.84]		Ohms/1000ft [Ohms/Km]

# **Specifications by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	5.8	GHz
Insertion Loss (Max.)	0.04	0.06	0.08	0.12	0.15	dB/ft
	0.13	0.2	0.26	0.39	0.49	dB/m

**Electrical Specification Notes:** 

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.04\*SQRT(FGHz) dB per connector.

### **Mechanical Specifications**

**Cable Assembly** 

 Width/Diameter
 0.5 in [12.7 mm]

 Weight
 0.046 lbs [20.87 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

Number of Shields 1
Outer Conductor 1 Material and Plating Copper
Jacket Material FEP, Blue
Jacket Diameter 0.28 in [7.

Jacket Diameter0.28 in [7.11 mm]One Time Minimum Bend Radius1.25 in [31.75 mm]Bending Moment0.8 lbs-ft [1.08 N-m]

#### **Connectors**

Description	Connector 1	Connector 2	
Туре	SMA Male Right Angle	QMA Male	
Impedance	50 Ohms	50 Ohms	
Configuration	Right Angle	Straight	
Contact Material and Plating	Brass, Gold	Brass, Silver	
Dielectric Type	PTFE	PTFE	
Outer Conductor Material and Plating		Phosphor Bronze, Tri-Metal	
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal	
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal	





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## **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**

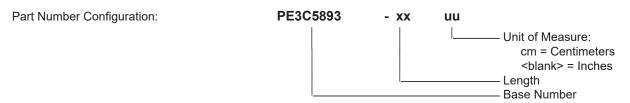






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#### **How to Order**



Example: PE3C5893-12 = 12 inches long cable

PE3C5893-100cm = 100 cm long cable

Plenum SMA Male Right Angle to QMA Male Low PIM Cable 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 Right Angle to QMA Male Low PIM Cable Using SPP-250-LLPL Coax, LF Solder PE3C5893

URL: https://www.pasternack.com/sma-male-qma-male-spp250llpl-cable-assembly-pe3c5893-p.aspx

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