

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



#### PE3C5877

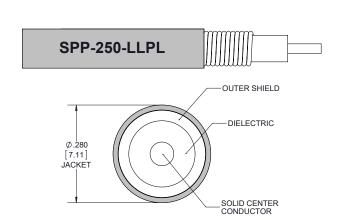
#### Configuration

Connector 1: QMA Male Right AngleConnector 2: QMA Male Right Angle

Cable Type: SPP-250-LLPLCoax Flex Type: Corrugated

#### **Features**

- Max Frequency 5.8 GHz
- Low PIM: -145 dBc Max
- Shielding Effectivity > 100 dB
- 76% Phase Velocity
- FEP Jacket



# **Applications**

· General Purpose

· Laboratory Use

· Low PIM Applications

#### **Description**

Pasternack's PE3C5877 QMA male right angle to QMA 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 QMA to QMA cable assembly has a male to male gender configuration with 50 ohm corrugated SPP-250-LLPL coax. The PE3C5877 QMA 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 -145 dBc. The right angle QMA interfaces on the SPP-250-LLPL cable allow 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			-145	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
 0.052 lbs [23.59 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

Outer Conductor 1 Material and Plating

Jacket Material

Locket Diameter

O 28 in 17

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	QMA Male Right Angle	QMA Male Right Angle	
Impedance	50 Ohms	50 Ohms	
Configuration	Right Angle	Right Angle	
Contact Material and Plating	Brass, Silver	Brass, Silver	
Dielectric Type	PTFE	PTFE	
Outer Conductor Material and Plating	Phosphor Bronze, Tri-Metal	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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## PE3C5877

#### **How to Order**



Example: PE3C5877-12 = 12 inches long cable

PE3C5877-100cm = 100 cm long cable

Plenum QMA Male Right Angle to QMA Male Right Angle 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 QMA Male Right Angle to QMA Male Right Angle Low PIM Cable Using SPP-250-LLPL Coax, LF Solder PE3C5877

URL: https://www.pasternack.com/qma-male-right-angle-to-qma-male-cable-using-spp-250-llpl-pe3c5877-p.aspx

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