

#### PE3C5876

#### Configuration

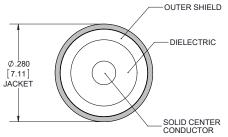
· Connector 1: QMA Male Right Angle

Connector 2: SMA MaleCable Type: SPP-250-LLPLCoax 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



#### **Applications**

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

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

#### PIM Testing

#### **Description**

Pasternack's PE3C5876 QMA male right angle to SMA 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 QMA to SMA cable assembly has a male to male gender configuration with 50 ohm corrugated SPP-250-LLPL coax. The PE3C5876 QMA 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 -155 dBc. The right angle QMA 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





#### PE3C5876

#### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Passive Intermodulation			-155	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:** 

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**

Weight 0.12 lbs [54.43 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 Outer Conductor 1 Material and Plating Copper 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]





#### PE3C5876

#### **Connectors**

Connector 1	Connector 2
QMA Male Right Angle	SMA Male
50 Ohms	50 Ohms
Right Angle	Straight
Brass, Silver	Brass, Gold
PTFE	PTFE
Phosphor Bronze, Tri-Metal	
Brass, Tri-Metal	Brass, Tri-Metal
Brass, Tri-Metal	Brass, Tri-Metal
	QMA Male Right Angle 50 Ohms Right Angle Brass, Silver PTFE Phosphor Bronze, Tri-Metal Brass, Tri-Metal

#### **Environmental Specifications**

Operating Range Temperature

-55 to +165 deg C

Compliance Certifications (see product page for current document)

#### **Plotted and Other Data**

Notes:





### PE3C5876

#### **Typical Performance Data**







#### PE3C5876

#### **How to Order**



Example: PE3C5876-12 = 12 inches long cable PE3C5876-100cm = 100 cm long cable

Plenum QMA Male Right Angle to SMA 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 QMA Male Right Angle to SMA Male Low PIM Cable Using SPP-250-LLPL Coax, LF Solder PE3C5876

URL: https://www.pasternack.com/qma-male-sma-male-spp250llpl-cable-assembly-pe3c5876-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.

