

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

## 

SOLID CENTER

#### PE3C5870

#### Configuration

Connector 1: QMA Male
Connector 2: SMA Male
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 OUTER SHIELD DIELECTRIC

#### **Applications**

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

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

#### PIM Testing

#### **Description**

Pasternack's PE3C5870 QMA male 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 PE3C5870 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.

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.)	0.038	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 1 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]

#### **Connectors**

Description	Connector 1	Connector 2	
Туре	QMA Male	SMA Male	
Impedance	50 Ohms	50 Ohms	
Configuration	Straight	Straight	
Contact Material and Plating	Brass, Silver	Brass, Gold	
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: PE3C5870-12 = 12 inches long cable PE3C5870-100cm = 100 cm long cable

Plenum QMA Male 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 to SMA Male Low PIM Cable Using SPP-250-LLPL Coax, LF Solder PE3C5870

URL: https://www.pasternack.com/qma-male-sma-male-spp250llpl-cable-assembly-pe3c5870-p.aspx

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