

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

The QMA male to SMA male cable using SPP-250-LLPL coax, part number FMCA1800, from Fairview Microwave is in-stock and ships same day. This Fairview QMA to SMA cable assembly has a male to male gender configuration with 50 ohm corrugated SPP-250-LLPL coax. Fairview Microwave's corrugated RF cable assemblies are ideal for applications where durability and high power are needed. Our low PIM design offers excellent passive intermodulation performance with PIM levels better than -155 dBc. The FMCA1800 QMA male to SMA male cable assembly operates to 5.8 GHz.

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 RF cable assembly value added services including connector orientation or clocking, heat shrink booting and labeling are also available. RF testing can also be performed to document the electrical performance of your cable assembly.

## **Electrical Specifications**

Description	Min	Т	ур	Max	ι	Inits
Frequency Range	DC			5.8		GHz
VSWR				1.4:1		
Velocity of Propagation			76			%
RF Shielding	100					dB
Passive Intermodulation				-155		dBc
Capacitance		27 [	88.58]		pF/f	t [pF/m]
Inductance		0.067	' [0.22]		uH/f	t [uH/m]
DC Resistance Inner Cor	ductor	3[	9.84]		Ω/100	0ft [Ω/Km]

Performance by	y Freq <mark>ue</mark> i	ıcy				
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**

Length\*

**Cable** Cable Type Impedance Inner Conductor Type

Inner Conductor Material and Plating

0 in [0 mm]

SPP-250-LLPL 50 Ohms Solid Copper



**FMCA1800** 

**DATA SHEET** 

# **Configuration:**

- QMA Male
- SMA Male
- SPP-250-LLPL

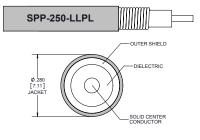
## **Features:**

- Max Frequency 5.8 GHz
- Low PIM: -155 dBc Max
- Shielding Effectivity > 100 dB
- 76% Phase Velocity
- FEP Jacket
- IP67 (Mated)
- Low Loss with Excellent VSWR
- PIM Test Results Marked on Each Cable
- UL910 Plenum Rated Cable
- Extremely Flexible and Lightweight

# **Applications:**

- General Purpose
- Laboratory Use
- Low PIM Applications
- DAS
- Mobile Networks
- In-Building Wireless
- Small Cells
- PIM Testing

# **Cable Diagram:**



Fairview Microwave 301 Leora Ln., Suite 100 Lewisville, TX 75056 Tel: 1-800-715-4396 / (972) 649-6678 Fax: (972) 649-6689 www.fairviewmicrowave.com sales@fairviewmicrowave.com Fairview Microwave

# an INFINIT<sup>3</sup> brand



Dielectric Type	PTFE
Number of Shields	1
Outer Conductor 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

n] m] 0.8 lbs-ft [1.08 N-m]

#### Connectors

Connect	Connector 1		Connector 2		
QMA Male		SMA Male			
50 Ohr	50 Ohms		S		
Brass, Silver		Brass, Gold			
PTFE		PTFE			
ing Phosphor Bronze	e, Tri- <mark>Metal</mark>				
Brass, Tri-l	Metal	Brass, Tri-M	etal		
ating Brass, Tri-I	Metal	Brass, Tri-M	etal		
	QMA Ma 50 Ohr Brass, Si PTFE ing Phosphor Bronze Brass, Tri-	QMA Male 50 Ohms Brass, Silver PTFE ing Phosphor Bronze, Tri-Metal Brass, Tri-Metal	QMA MaleSMA Male50 Ohms50 OhmsBrass, SilverBrass, GoPTFEPTFEingPhosphor Bronze, Tri-MetalBrass, Tri-MetalBrass, Tri-M		

### **Environmental Specifications**

Temperature Operating Range

-55 to +165 deg C

#### **Compliance Certifications** (see product page for current document)

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

Notes:

### How to Order

Part Number Configuration:

FMCA1800 - xx



Example: FMCA1800-12 = 12 inches long cable FMCA1800-100cm = 100 cm long cable

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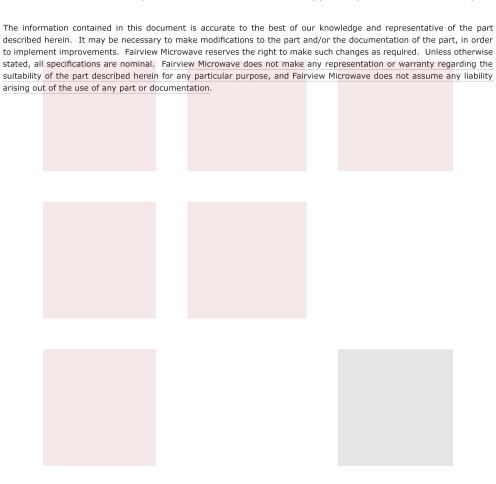




Low PIM QMA Male to SMA Male Plenum Cable SPP-250-LLPL Coax with LF Solder from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

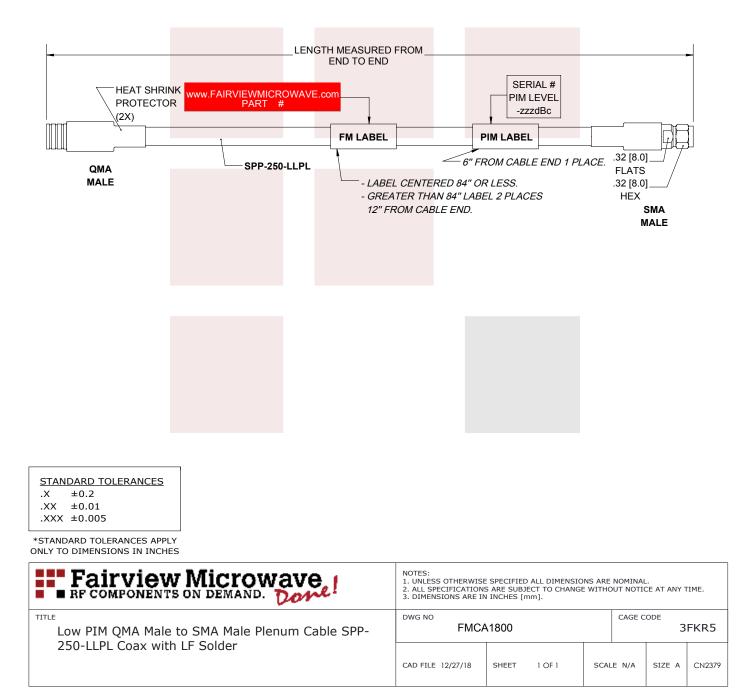
Click the following link to obtain additional part information: Low PIM QMA Male to SMA Male Plenum Cable SPP-250-LLPL Coax with LF Solder FMCA1800

URL: https://www.fairviewmicrowave.com/qma-male-sma-male-cable-spp250llpl-coax-fmca1800-p.aspx









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