



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

The RA QMA male to RA QMA male cable using SPP-250-LLPL coax, part number FMCA1807, from Fairview Microwave is in-stock and ships same day. This Fairview QMA to QMA 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 -145 dBc. The FMCA1807 QMA male to QMA male cable assembly operates to 5.8 GHz. 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 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	U	Inits
Frequency Range	DC			5.8		GHz
VSWR				1.4:1		
Velocity of Propagation		7	76			%
RF Shielding	100					dB
Passive Intermodulation				-145		dBc

Capacitance		27 [88.58]	pF/ft [pF/m]
Inductance		0.067 [0.22]	uH/ft [uH/m]
DC Resistance Inner Cor	nductor	3 [9.84]	Ω/1000ft [Ω/Km]

#### **Performance by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency	0.45	0.7	1	2.5	5.8	GHz
Insertion Loss (Max	a.) 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\* 0 in [0 mm]

Cable

Cable Type SPP-250-LLPL Impedance 50 Ohms Inner Conductor Type Solid



# **Configuration:**

- QMA Male Right Angle
- QMA Male Right Angle
- SPP-250-LLPL

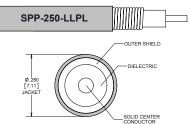
## **Features:**

- Max Frequency 5.8 GHz
- Low PIM: -145 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:**



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Inner Conductor Material and Plating

Dielectric Type Number of Shields

Outer Conductor Material and Plating Jacket Material

Jacket Diameter

Copper PTFE 1 Copper

> FEP, Blue 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**

Connector 1	Connector 2
QMA Male	QMA Male
50 Ohms	50 Ohms
Brass, Silver	Brass, Silver
PTFE	PTFE
ng Phosphor Bronze, Tri-l	Metal Phosphor Bronze, Tri-Metal
Brass, Tri-Metal	Brass, Tri-Metal
ting Brass, Tri-Metal	Brass, Tri-Metal
	QMA Male 50 Ohms Brass, Silver PTFE ng Phosphor Bronze, Tri- Brass, Tri-Metal

## **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:

FMCA1807 - xx uu cm = Centimeters <black> = Inches Length

Example: FMCA1807-12 = 12 inches long cable

FMCA1807-100cm = 100 cm long cable

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Low PIM RA QMA Male to RA QMA 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 RA QMA Male to RA QMA Male Plenum Cable SPP-250-LLPL Coax with LF Solder FMCA1807

The information contained in this document is accurate to the best of our knowledge and representative of the part

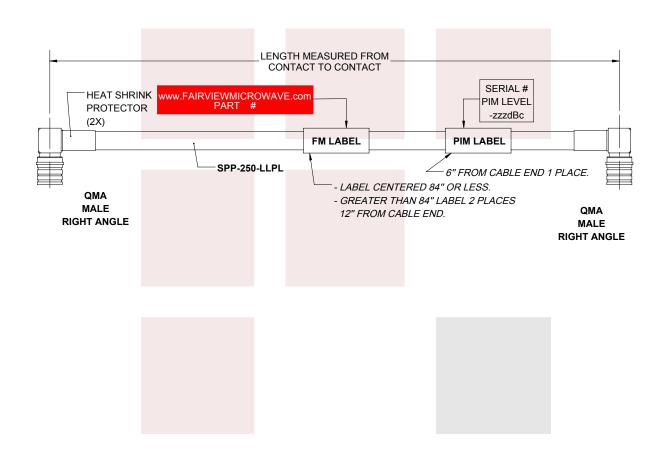
URL: https://www.fairviewmicrowave.com/ra-qma-male-ra-qma-male-cable-spp250llpl-coax-fmca1807-p.aspx

described	herein. It m	nay be necessar	y to ma	ke modificatio	ns to the part a	nd/or tl	ne documentatio	n of the part	, in order
to implem	ent improver	ments. Fairview	/ Microw	ave reserves t	he right to mak	e such o	changes as requi	red. Unless	otherwise
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STANDARD TOLERANCES

.X ±0.2 .XX ±0.01 .XXX ±0.005

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

Fairview Microwave	NOTES:  1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.  2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.  3. DIMENSIONS ARE IN INCHES [mm].						
Low PIM RA QMA Male to RA QMA Male Plenum Cable	FMCA1807				CAGE CODE 3FKR5		
SPP-250-LLPL Coax with LF Solder	CAD FILE 12/27/18	SHEET 1 OF 1	SCAL	E N/A	SIZE A	CN2379	