

Low PIM RA QMA Male to SMA Male Plenum Cable SPP-250-LLPL Coax in 150 cm with LF Solder

The RA QMA male to SMA male 150 cm cable using SPP-250-LLPL coax, part number FMCA1806-150CM, 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 FMCA1806-150CM QMA male to SMA male cable assembly operates to 5.8 GHz. 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 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	Units
Frequency Range	DC			5.8	GHz
VSWR				1.4:1	
Velocity of Propagation		7	76		%
RF Shielding	100				dB
Passive Intermodulation				-155	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.)	0.25	0.31	0.37	0.59	0.93	dB

Electrical Specification Notes:

The insertion loss data above is based on the performance specifications of the coax cable used in this assembly. The insertion loss includes an estimated insertion loss of 0.04*SQRT(FGHz) dB maximum per connector.

Mechanical Specifications

Cable Assembly

Length* 59.0551 in [150 cm]

Cable

Cable Type
Impedance
Inner Conductor Type
Inner Conductor Material and Plating

SPP-250-LLPL 50 Ohms Solid Copper

FMCA1806-150CM DATA SHEET



Configuration:

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

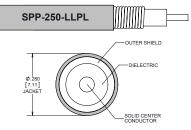
Features:

- 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:



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Dielectric Type Number of Shields Outer Conductor Material and Plating Jacket Material

1 Copper FEP, Blue

PTFE

0.28 in [7.11 mm]

One Time Minimum Bend Radius Bending Moment 1.25 in [31.75 mm] 0.8 lbs-ft [1.08 N-m]

Connectors

Jacket Diameter

Description	Connecto	r 1	Connector 2
Туре	QMA Ma	е	SMA Male
Impedance	50 Ohm	S	50 Ohms
Contact Material & Plating	Brass, Silv	er	Brass, Gold
Dielectric Type	PTFE		PTFE
Outer Cond Material & Plati	ng Phosphor Bronze	Tri-Met	al
Body Material & Plating	Brass, Tri-M	etal	Brass, Tri-Metal
Coupling Nut Material & Pla	iting Brass, Tri-M	etal	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:



Example: FMCA1806-12 = 12 inches long cable

FMCA1806-100cm = 100 cm long cable

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Low PIM RA QMA Male to SMA Male Plenum Cable SPP-250-LLPL Coax in 150 cm 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 SMA Male Plenum Cable SPP-250-LLPL Coax in 150 cm with LF Solder FMCA1806-150CM

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

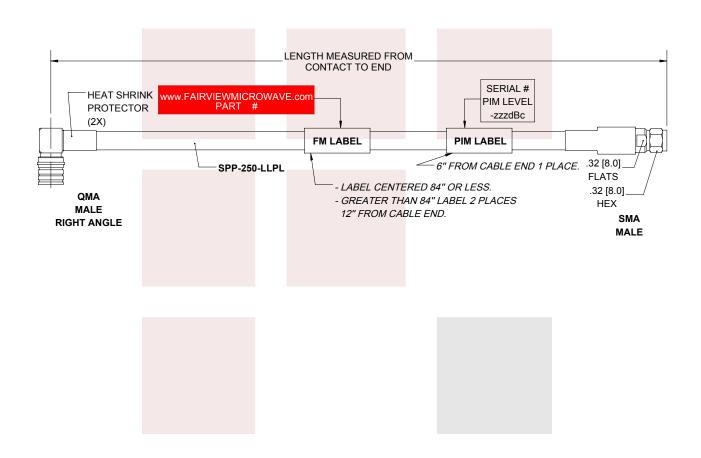
URL: https://www.fairviewmicrowave.com/ra-qma-male-sma-male-cable-spp250llpl-coax-fmca1806-150cm-p.aspx

described h	erein. It may be necessar	y to make	modifications to	the part and	d/or th	e documentation of	f the part,	in order
to impleme	nt improvements. Fairview	Microway	ve reserves the rig	to make	such c	hanges as required.	. Unless o	therwise
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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 SMA Male Plenum Cable	FMCA1806				CAGE CODE 3FKR5		
SPP-250-LLPL Coax in 150 cm with LF Solder	CAD FILE 12/27/18	SHEET 1 OF 1	SCAL	E N/A	SIZE A	CN2379	