

Low PIM QMA Male to SMA Female Plenum Cable SPP-250-LLPL Coax in 50 cm with LF Solder

The QMA male to SMA female 50 cm cable using SPP-250-LLPL coax, part number FMCA1812-50CM, from Fairview Microwave is in-stock and ships same day. This Fairview QMA to SMA cable assembly has a male to female 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 -150 dBc. The FMCA1812-50CM QMA male to SMA female 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				-150		dBc	
Capacitance		27 [88.58]			pF/ft [pF/m]		
Inductance		0.067 [0.22]		uH/ft [uH/m]			
DC Resistance Inner Con	ductor	3 [9.84]		$\Omega/1000$ ft [$\Omega/$ 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.)	0.12	0.15	0.18	0.29	0.44	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* 19.685 in [500 mm]

Cable

Cable Type SPP-250-LLPL Impedance 50 Ohms Inner Conductor Type Solid Inner Conductor Material and Plating Dielectric Type PTFE

FMCA1812-50CM DATA SHEET



Configuration:

- OMA Male
- SMA Female
- SPP-250-LLPL

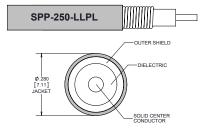
Features:

- Max Frequency 5.8 GHz
- Low PIM: -150 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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Number of Shields

Outer Conductor Material and Plating

Jacket Material Jacket Diameter 1 Copper FEP, Blue

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

Description	Connector 1	1 Connector 2		
Туре	QMA Male	SMA Female		
Impedance	50 Ohms	50 Ohms		
Contact Material & Plating	Brass, Silver	Beryllium Copper, Silver		
Dielectric Type	PTFE	PTFE		
Outer Cond Material & Platin	ng Phosphor Bronze, Tri-N	Metal Brass, Tri-Metal		
Body Material & Plating	Brass, Tri-Metal	Brass, Tri-Metal		
Coupling Nut Material & Plat	ing 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: FMCA1812-12 = 12 inches long cable

FMCA1812-100cm = 100 cm long cable

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Low PIM QMA Male to SMA Female Plenum Cable SPP-250-LLPL Coax in 50 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 QMA Male to SMA Female Plenum Cable SPP-250-LLPL Coax in 50 cm with LF Solder FMCA1812-50CM

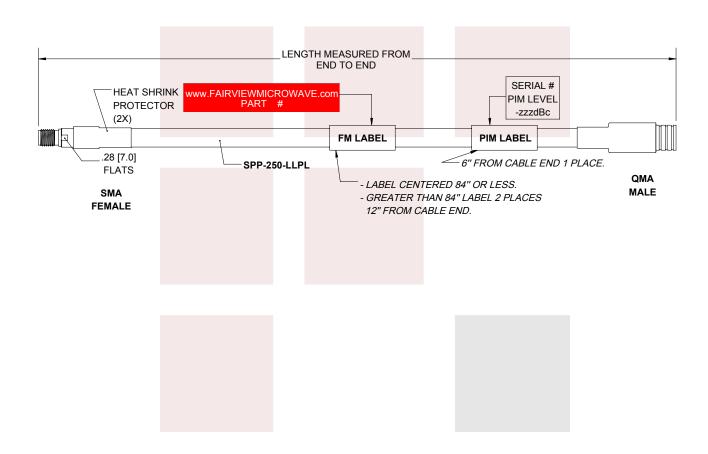
URL: https://www.fairviewmicrowave.com/qma-male-sma-female-cable-spp250llpl-coax-fmca1812-50cm-p.aspx



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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 QMA Male to SMA Female Plenum Cable SPP- 250-LLPL Coax in 50 cm with LF Solder	FMCA1812			CAGE CODE 3FKR5		
	CAD FILE 12/27/18	SHEET 1 OF 1	SCAL	E N/A	SIZE A	CN2379