

### Low PIM RA 4.1/9.5 Mini DIN Male to SMA Male Plenum Cable SPP-250-LLPL Coax in 50 cm with LF Solder

The RA 4.1/9.5 Mini DIN male to SMA male 50 cm cable using SPP-250-LLPL coax, part number FMCA1781-50CM, from Fairview Microwave is in-stock and ships same day. This Fairview 4.1/9.5 Mini DIN 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 FMCA1781-50CM 4.1/9.5 Mini DIN male to SMA male cable assembly operates to 5.8 GHz. The right angle 4.1/9.5 Mini DIN 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	Мах	ι	Inits
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/f	t [uH/m]
DC Resistance Inner Cor	ductor	3 [9	9.84]		Ω/100	0ft [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.)	0.12	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\*

**Cable** Cable Type Impedance

Inner Conductor Type

19.685 in [500 mm]

SPP-250-LLPL 50 Ohms Solid



FMCA1781-50CM

DATA SHEET

# **Configuration:**

- 4.1/9.5 Mini DIN 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:**

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>®</sup> brand



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 Bending Moment

1.25 in [31.75 mm] 0.8 lbs-ft [1.08 N-m]

#### Connectors

Description	Connector 1	Connector 2	
Туре	4.1/9.5 Mini DIN M	ale SMA Male	
Impedance	50 Ohms	50 Ohms	
Contact Material & Plating	Brass, Silver	Brass, Gold	
Dielectric Type	PTFE	PTFE	
Body Material & Plating	Brass, Tri-Metal	Brass, Tri-Metal	
Coupling Nut Material & Pla	iting	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:

FMCA1781 - xx



Example: FMCA1781-12 = 12 inches long cable FMCA1781-100cm = 100 cm long cable

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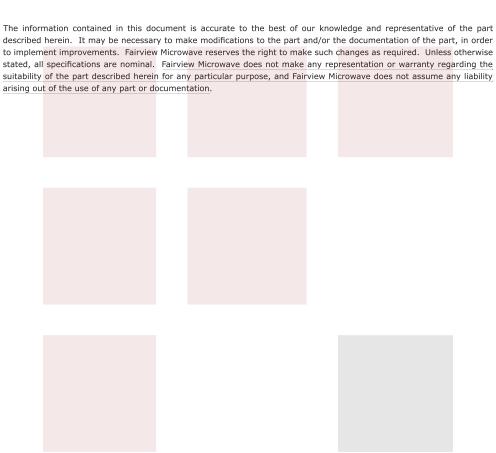


# FMCA1781-50CM DATA SHEET

Low PIM RA 4.1/9.5 Mini DIN Male to SMA Male 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 RA 4.1/9.5 Mini DIN Male to SMA Male Plenum Cable SPP-250-LLPL Coax in 50 cm with LF Solder FMCA1781-50CM

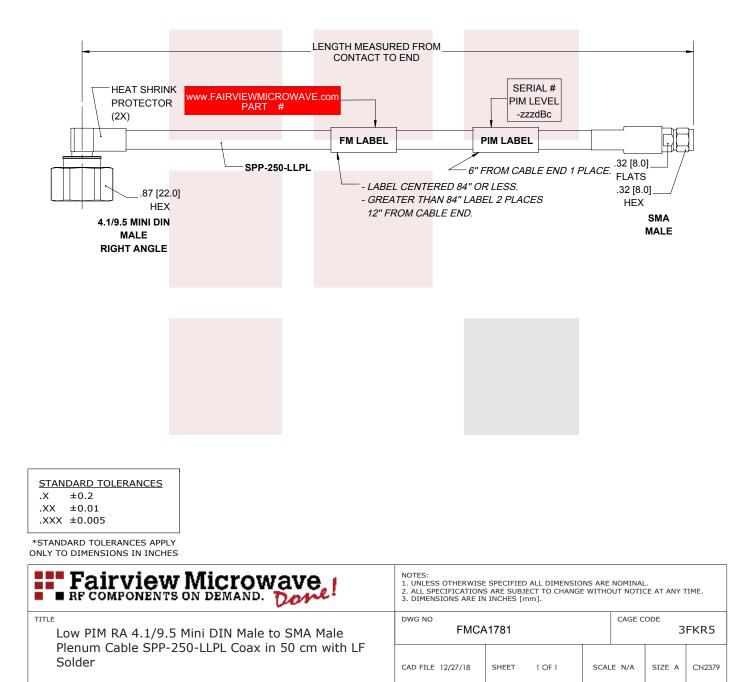
URL: https://www.fairviewmicrowave.com/ra-4.1-9.5-mini-din-male-sma-male-cable-spp250llpl-coax-fmca1781-50cm-p. aspx



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