

# Low PIM RA 4.1/9.5 Mini DIN Male to QMA Male Plenum Cable SPP-250-LLPL Coax in 200 cm with LF Solder

The RA 4.1/9.5 Mini DIN male to QMA male 200 cm cable using SPP-250-LLPL coax, part number FMCA1780-200CM, from Fairview Microwave is in-stock and ships same day. This Fairview 4.1/9.5 Mini DIN 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 -150 dBc. The FMCA1780-200CM 4.1/9.5 Mini DIN male to QMA 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	Max	Units
Frequency Range	DC			5.8	GHz
VSWR				1.4:1	
Velocity of Propagation		7	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 Cor	ductor	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.)	0.31	0.39	0.46	0.75	1.17	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\* 78.7402 in [200 cm]

#### Cable

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

# FMCA1780-200CM DATA SHEET



# **Configuration:**

- 4.1/9.5 Mini DIN Male Right Angle
- OMA Male
- 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:**

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





Inner Conductor Material and Plating

Dielectric Type Number of Shields

Outer Conductor Material and Plating

Jacket Material

Jacket Diameter

One Time Minimum Bend Radius

Bending Moment

Copper PTFE 1 Copper

FEP, Blue

0.28 in [7.11 mm]

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 Ma	ale QMA Male
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Brass, Silver	Brass, Silver
Dielectric Type	PTFE	PTFE
Outer Cond Material & Plati	ng	Phosphor Bronze, Tri-Metal
Body Material & Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Material & Pla	ting	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:

FMCA1780 - xx uu | cm = Centimeters | chlank = Inches | Length

Example: FMCA1780-12 = 12 inches long cable

FMCA1780-100cm = 100 cm long cable

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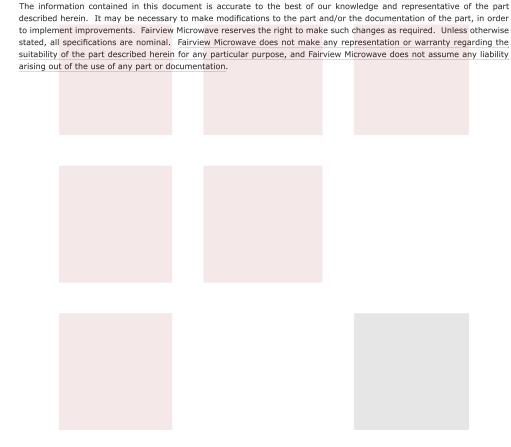




Low PIM RA 4.1/9.5 Mini DIN Male to QMA Male Plenum Cable SPP-250-LLPL Coax in 200 cm with LF Solder from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: Low PIM RA 4.1/9.5 Mini DIN Male to QMA Male Plenum Cable SPP-250-LLPL Coax in 200 cm with LF Solder FMCA1780-200CM

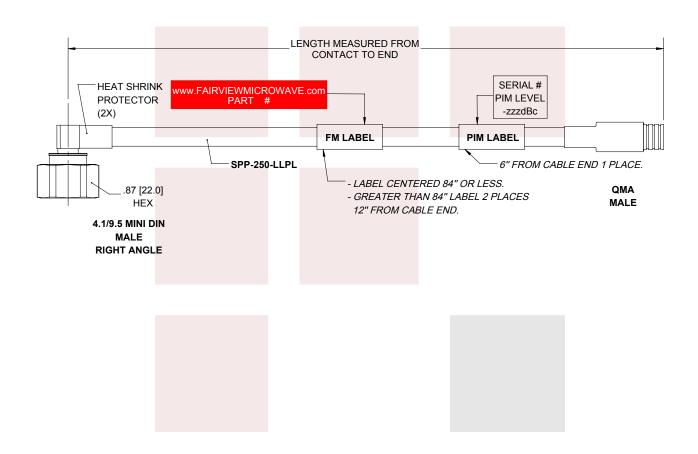
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STANDARD TOLERANCES

.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 4.1/9.5 Mini DIN Male to QMA Male Plenum Cable SPP-250-LLPL Coax in 200 cm with LF Solder	DWG NO FMCA1780				CAGE CODE 3FKR5		
	CAD FILE 12/27/18	SHEET 1 OF 1	SCAL	E N/A	SIZE A	CN2379	