

FMCA1780-36 DATA SHEET

Low PIM RA 4.1/9.5 Mini DIN Male to QMA Male Plenum Cable SPP-250-LLPL Coax in 36 Inch with LF Solder

The RA 4.1/9.5 Mini DIN male to QMA male 36 inch cable using SPP-250-LLPL coax, part number FMCA1780-36, 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 FMCA1780-36 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	T	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.)	0.17	0.22	0.26	0.41	0.64	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* 36 in [914.4 mm]

Cable

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



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:

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Inner Conductor Material and Plating

Dielectric Type Number of Shields

Outer Conductor Material and Plating

Jacket Material

Jacket Diameter

PTFE 1 Copper FEP, Blue

Copper

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	lale QMA Male		
Impedance	50 Ohms	50 Ohms		
Contact Material & Plating	Brass, Silver	Brass, Silver		
Dielectric Type	PTFE	PTFE		
Outer Cond Material & Plating		Phosphor Bronze, Tri-Metal		
Body Material & Plating	Brass, Tri-Metal Brass, Tri-Metal			
Coupling Nut Material & Plating 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 36 Inch 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 36 Inch with LF Solder FMCA1780-36

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

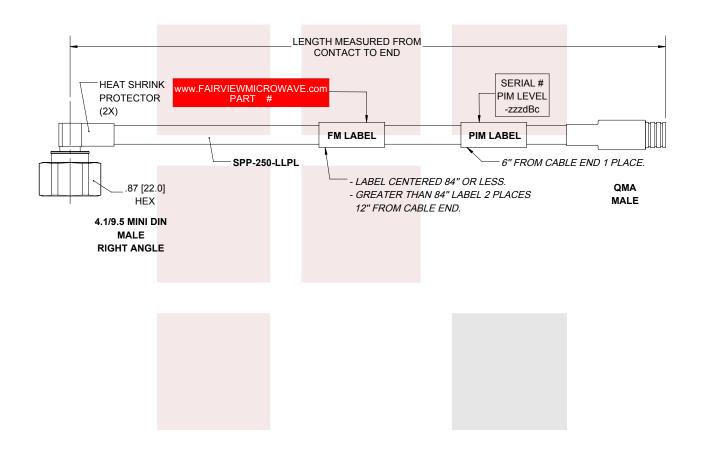
URL: https://www.fairviewmicrowave.com/ra-4.1-9.5-mini-din-male-qma-male-cable-spp250llpl-coax-fmca1780-36-p. aspx

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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 RA 4.1/9.5 Mini DIN Male to QMA Male Plenum Cable SPP-250-LLPL Coax in 36 Inch with LF Solder	FMCA1780			CAGE CODE 3FKR5		
	CAD FILE 12/27/18	SHEET 1 OF 1	SCAL	E N/A	SIZE A	CN2379