

FMCA1309-12 DATA SHEET

Low PIM 4.1/9.5 Mini DIN Male to 7/16 DIN Male Plenum Cable SPP-250-LLPL Coax in 12 Inch

Low PIM 4.1/9.5 mini DIN male to 7/16 DIN male part number FMCA1309 from Fairview Microwave is in-stock and ships same day. This low PIM 4.1/9.5 mini DIN male to 7/16 DIN male plenum coax cable assembly offers low PIM performance to support Distributed Antenna Systems (DAS), in-building wireless and other emerging mobile communication networks. The SPP-250-LLPL coax cable carries a UL910 rating for plenum installations. Each low PIM 4.1/9.5 mini DIN male to 7/16 DIN male cable assembly is marked with its actual Passive Intermodulation (PIM) test result.

Fairview's FMCA1309 datasheet specifications and outline drawing are shown below in this PDF. Our extensive offering of low PIM cable assemblies, low-PIM adapters and other RF products support multi-carrier system prototype, cable installations and PIM testing applications.

Electrical Specifications

Description	Min	Т	ур	Max	ι	Inits
Frequency Range	DC			6		GHz
VSWR				1.35:1		
Velocity of Propagation		7	76			%
RF Shielding	100					dB
Passive Intermodulation		-1	.65	-160		dBc
Capacitance		26.7	[87.6]]	pF/f	t [pF/m]
Operating Voltage (AC)				750	١	/rms

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	2	4	6	GHz
Insertion Loss (Max.)	0.44	0.45	0.48	0.52	0.55	dB
VSWR (Max.)	1.25:1	1.25:1	1.25:1	1.35:1	1.35:1	
Power Handling (Max.)	850	507	460	370	250	W

Electrical Specification Notes:

Values at 25°C, sea level

PIM test results vary between cables

The Insertion Loss data above is based on the performance specifications of the coax used in this assembly. The Insertion Loss includes an estimated loss of 0.4dB of connector loss.

Mechanical Specifications

Cable Assembly

Length* 12 in [304.8 mm]

Cable

Cable Type SPP-250-LLPL Inner Conductor Type Solid

Inner Conductor Material and Plating Copper, Bare



Configuration:

- 4.1/9.5 Mini DIN Male
- 7/16 DIN Male
- SPP-250-LLPL

Features:

- Max Frequency 6 GHz
- Low PIM: -160 dBc Max
- Shielding Effectivity > 100 dB
- 76% Phase Velocity
- FEP Jacket
- Low PIM < -160 dBc
- 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 PTFE Number of Shields 1

Shield Layer 1 Annular Corrugated Copper Tube

Outer Conductor Diameter 0.25 in [6.35 mm] Jacket Material

FEP

0.28 in [7.11 mm] Jacket Diameter

One Time Minimum Bend Radius 1.5 in [38.1 mm]

Connectors

Description	Connector 1	Connector 2
Туре	4.1/9.5 Mini DIN Male	7/16 DIN Male
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Brass, Silver	Brass, Silver
Dielectric Type	PTFE	PTFE
Body Material & Plating	Brass, Tri-Metal	Brass, Tri-Metal
Seal Gasket Material	Silicone Rubber	Silicone Rubber

Environmental Specifications

Temperature

Operating Range -55 to +125 deg C UL910

Plenum Rating

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Values at 25°C, sea level.

How to Order

Part Number Configuration:

FMCA1309 - xx uu cm = Centimeters

dlank> = Inches Length

Example: FMCA1309-12 = 12 inches long cable

FMCA1309-100cm = 100 cm long cable

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Low PIM 4.1/9.5 Mini DIN Male to 7/16 DIN Male Plenum Cable SPP-250-LLPL Coax in 12 Inch 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 4.1/9.5 Mini DIN Male to 7/16 DIN Male Plenum Cable SPP-250-LLPL Coax in 12 Inch FMCA1309-12

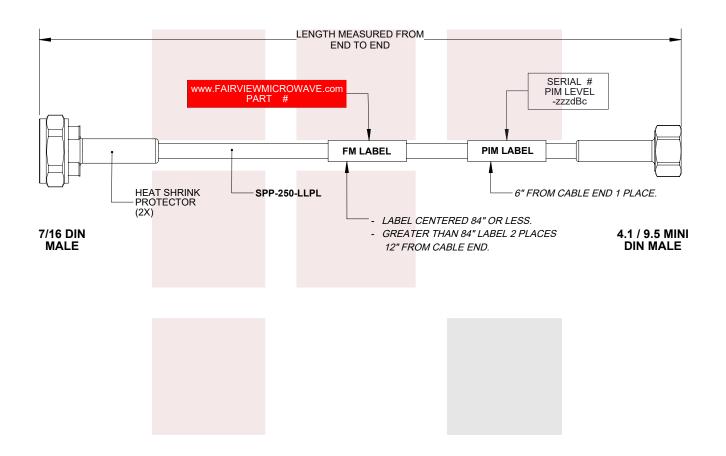
URL: https://www.fairviewmicrowave.com/4.1-9.5-male-7-16-male-cable-spp250llpl-fmca1309-12-p.aspx



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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].				TIME.		
Low PIM 4.1/9.5 Mini DIN Male to 7/16 DIN Male	DWG NO FMCA1309				CAGE CODE 3FKR5		
Plenum Cable SPP-250-LLPL Coax in 12 Inch	CAD FILE 12/05/18	SHEET 1 OF 1	SCAL	LE N/A	SIZE A	7361	