

FMCA1820 DATA SHEET

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

The 4.1/9.5 Mini DIN male to RA SMA male cable using SPP-250-LLPL coax, part number FMCA1820, 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 FMCA1820 4.1/9.5 Mini DIN male to SMA male cable assembly operates to 5.8 GHz. The right angle SMA 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				-155	dBc
Capacitance		27 [8	38.58]		pF/ft [pF/m]

Capacitance	27 [00.30]	pi/it [pi/iii]
Inductance	0.067 [0.22]	uH/ft [uH/m]
DC Resistance Inner Con <mark>d</mark> u	ctor 3 [9.84]	Ω/1000ft [Ω/Km]

Description	F1	F2	F3	F4	F5	Units
Frequency	0.45	0.7	1	2.5	5.8	GHz
Insertion Loss (Max	.) 0.038	0.048	0.057	0.094	0.148	dB/ft
	0.12	0.16	0.19	0.31	0.49	dB/m

Electrical Specification Notes:

Insertion loss does not include the loss of the connectors. Insertion loss is estimated as 0.04*SQRT(FGHz) dB per connector.

Mechanical Specifications

Cable Assembly Length*

Lengen

Cable Cable Type Impedance Inner Conductor Type 0 in [0 mm]

SPP-250-LLPL 50 Ohms Solid



Configuration:

- 4.1/9.5 Mini DIN Male
- SMA Male Right Angle
- SPP-250-LLPL

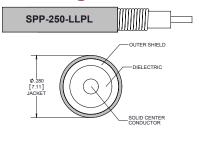
Features:

- 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:



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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 Ma	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	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:

FMCA1820 - xx



Example: FMCA1820-12 = 12 inches long cable FMCA1820-100cm = 100 cm long cable

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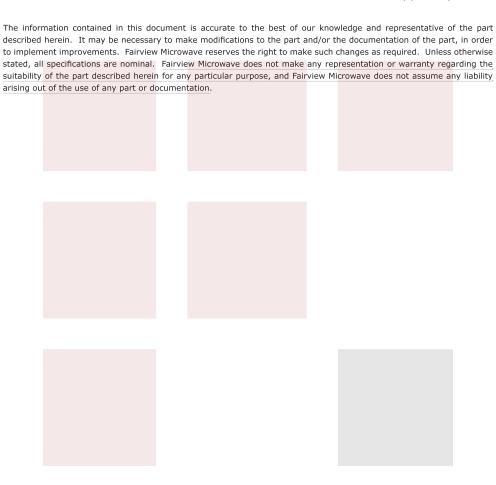




Low PIM 4.1/9.5 Mini DIN Male to RA SMA Male Plenum Cable SPP-250-LLPL Coax with LF Solder from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: Low PIM 4.1/9.5 Mini DIN Male to RA SMA Male Plenum Cable SPP-250-LLPL Coax with LF Solder FMCA1820

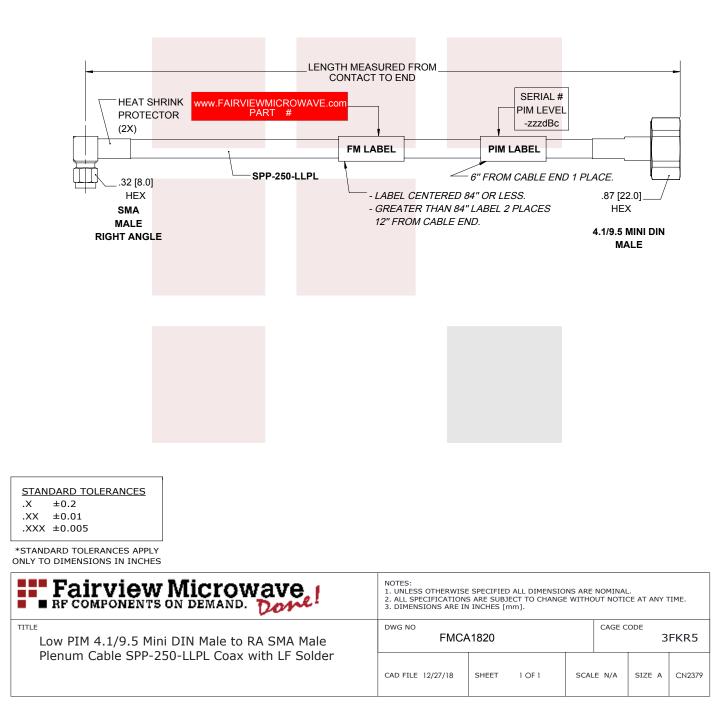
URL: https://www.fairviewmicrowave.com/4.1-9.5-mini-din-male-ra-sma-male-cable-spp250llpl-coax-fmca1820-p.aspx



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