

### FMCA1312-50CM

### Configuration

Connector 1: N Male
Connector 2: N Male
Cable Type: SPP-250-LLPL
Coax Flex Type: Corrugated

#### **Features**

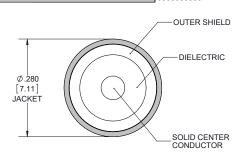
- Max Frequency 6 GHz
- · Low PIM: -160 dBc Max
- Shielding Effectivity > 100 dB
- 76% Phase Velocity
- FEP Jacket
- Low PIM < -160 dBc
- IP67 (Mated)
- · Low Loss with Excellent VSWR
- · PIM Test Results Marked on Each Cable
- UL910 Plenum Rated Cable
- · Extremely Flexible and Lightweight

## **Applications**

- · General Purpose
- · Laboratory Use
- Low PIM Applications

- DAS
- Mobile Networks
- · In-Building Wireless

#### SPP-250-LLPL



- · Small Cells
- PIM Testing

#### **Description**

Low PIM N male to N male part number FMCA1312 from Fairview Microwave is in-stock and ships same day. This low PIM N male to N 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 N male to N male cable assembly is marked with its actual Passive Intermodulation (PIM) test result.

Fairview's FMCA1312 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	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
VSWR			1.35:1	
Velocity of Propagation		76		%
RF Shielding	100			dB
Passive Intermodulation		-165	-160	dBc
IM3 (2x43dBm Tones) at 850 MHz or 1900 MHz				
Capacitance		26.7 [87.6]		pF/ft [pF/m]





### FMCA1312-50CM

### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Operating Voltage (AC)			750	Vrms

#### **Specifications by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	2	4	6	GHz
Insertion Loss (Max.)	0.46	0.5	0.53	0.6	0.64	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	Watts

**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**

19.69 in [500.13 mm] Length Width/Diameter .28 in [7.11 mm] 0.25 lbs [113.4 g] Weight

#### Cable

Cable Type SPP-250-LLPL Inner Conductor Type Solid Inner Conductor Material and Plating Copper, Bare

Dielectric Type **PTFE** Number of Shields

Shield Layer 1 Annular Corrugated Copper Tube 0.25 in [6.35 mm]

**Outer Conductor Diameter FEP** 

Jacket Material

0.28 in [7.11 mm] Jacket Diameter One Time Minimum Bend Radius 1.5 in [38.1 mm]





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#### **Connectors**

Connector 1	Connector 2	
N Male	N Male	
50 Ohms	50 Ohms	
Straight	Straight	
Brass, Silver	Brass, Silver	
PTFE	PTFE	
Brass, Tri-Metal	Brass, Tri-Metal	
Silicone Rubber	Silicone Rubber	
	N Male 50 Ohms Straight Brass, Silver PTFE Brass, Tri-Metal	

#### **Environmental Specifications**

Operating Range Temperature Plenum Rating

-55 to +125 deg C

UL910

Compliance Certifications (see product page for current document)

#### **Plotted and Other Data**

Notes:

Values at 25°C, sea level.





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**Typical Performance Data** 



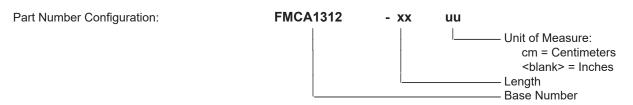






### FMCA1312-50CM

#### **How to Order**



Example: FMCA1312-12 = 12 inches long cable FMCA1312-100cm = 100 cm long cable

Low PIM N Male to N Male Plenum Cable SPP-250-LLPL Coax in 50 CM from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: Low PIM N Male to N Male Plenum Cable SPP-250-LLPL Coax in 50 CM FMCA1312-50CM

URL: https://www.fairviewmicrowave.com/low-pim-n-male-n-male-cable-spp250llpl-coax-fmca1312-50cm-p.aspx

The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to impliment improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume liability arising out of the use of any part or document.

