

### Plenum Low PIM 7/16 DIN Male to N Male Cable SPP-500-LLPL Coax in 50 cm Using Times Microwave Parts

The 7/16 DIN male to type N male 50 cm cable using SPP-500-LLPL coax, part number FMCA2039-50CM, from Fairview Microwave is in-stock and ships same day. This Fairview 7/16 DIN to type N cable assembly has a male to male gender configuration with 50 ohm corrugated SPP-500-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 -160 dBc. The FMCA2039-50CM 7/16 DIN male to type N male cable assembly operates to 5.8 GHz. Times Microwave cable is used in each assembly and TMS components are used to form connections with the super flexible low PIM cable. These cable assemblies are expertly built to satisfy your specific need with high quality Times Microwave Systems manufactured parts.

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	Мах	Units	5
Frequency Range	DC			5.8	GHz	
VSWR				1.4:1		
Velocity of Propagation		76		%		
Passive Intermodulation		-1	.65	-160	dBc	
Capacitance		26.2 [85.96]		pF/ft [pF/	′m]	

Performance by I	Freque	ncy				
Description	F1	F2	F3	F4	F5	Units
Frequency	0.45	0.7	1	2.5	5.8	GHz
Insertion Loss (Max.)	0.21	0.24	0.26	0.36	0.5	dB

Electrical Specification Notes:

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 insertion loss of 0.1 dB for the 7/16 DIN connector and 0.1\*SQRT(FGHz) dB for the N male connector.

### **Mechanical Specifications**

Cable Assembly Length\*

**Cable** Cable Type Impedance 19.685 in [500 mm]

SPP-500-LLPL 50 Ohms

# FMCA2039-50CM DATA SHEET



## **Configuration:**

- 7/16 DIN Male
- TC-SPP500-716M-LP
- N Male
- TC-SPP500-NM-LP
- SPP-500-LLPL

### Features:

- Max Frequency 5.8 GHz
- Low PIM: -160 dBc Max
- 76% Phase Velocity
- FEP Jacket
- 100% Tested with PIM Test Results Marked on Cable
- UL910 Plenum Rated Cable
- Lightweight and Extremely Flexible
- Low Loss with Excellent VSWR
- IP67 (when mated)
- Using Times Microwave Components

## **Applications:**

- General Purpose
- Laboratory Use
- Low PIM Applications
- Distributed Antenna Systems (DAS)
- Plenum Installations
- Multi-Carrier Communication Systems
- 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 Type Inner Conductor Material and Plating Dielectric Type Number of Shields Shield Layer 1 Outer Conductor Material and Plating Jacket Material Jacket Diameter Solid Copper Clad Aluminum PTFE 1 Helically Corrugated Copper Tube Copper FEP, Blue 0.5 in [12.7 mm]

One Time Minimum Bend Radius

1.5 in [38.1 mm]

#### Connectors

Description	Connecto	or 1	Connector 2			
Туре	7/16 DIN N	4ale	N Male			
Impedance	50 Ohm	s	50 Ohms			
Contact Material & Plating	Brass, Silv	/er	Brass, Silver			
Contact Plating Spec.	196 µin		200 µin			
Dielectric Type	PTFE		PTFE			
Outer Cond Material & Plati						
Outer Cond Plating Spec.	118 µin					
Body Material & Plating			Brass, Tri-Metal			
Body Plating Spec.			80 µin			
Coupling Nut Material & Pla	iting Brass, Tri-M	letal	Brass, Tri-Metal			
Coupling Nut Plating Spec.	200 µin		80 µin			
Torque	22.127 ft-lbs	30 N	m 10 in-lbs 1.13 Nm			

### **Environmental Specifications**

**Temperature** Operating Range Storage Range Plenum Rating

-55 to +200 deg C -55 to +200 deg C UL910

#### **Compliance Certifications** (see product page for current document)

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

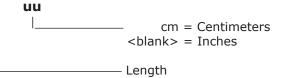
Notes:

• Values at 25°C, sea level.

#### How to Order

Part Number Configuration:

FMCA2039 - xx



Example: FMCA2039-12 = 12 inches long cable FMCA2039-100 cm = 100 cm long cable

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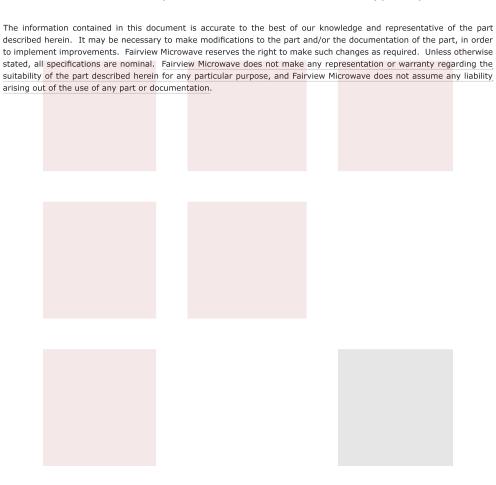


## FMCA2039-50CM DATA SHEET

Plenum Low PIM 7/16 DIN Male to N Male Cable SPP-500-LLPL Coax in 50 cm Using Times Microwave Parts 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.

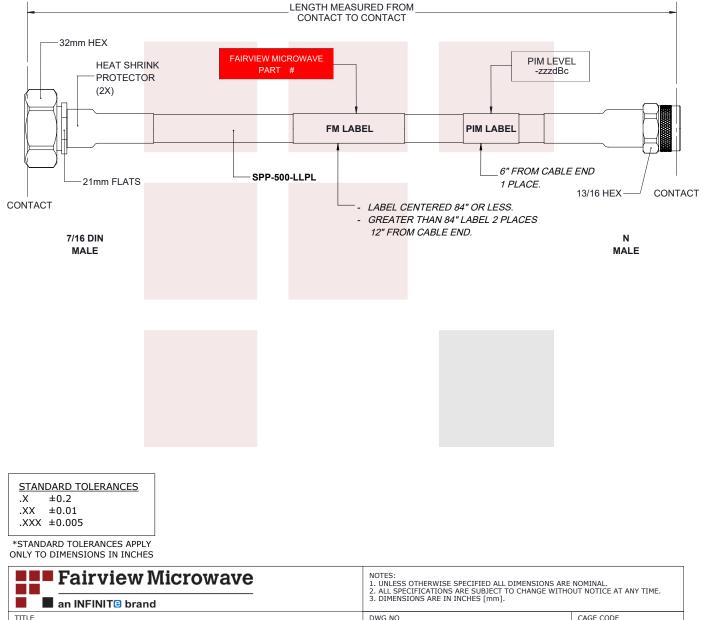
Click the following link to obtain additional part information: Plenum Low PIM 7/16 DIN Male to N Male Cable SPP-500-LLPL Coax in 50 cm Using Times Microwave Parts FMCA2039-50CM

URL: https://www.fairviewmicrowave.com/low-pim-7-16-din-male-n-male-cable-spp500llpl-coax-fmca2039-50cm-p.aspx









	FMCA2039					CAGE C	3FKR5		
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