Fairview Microwave

an INFINIT<sup>®</sup> brand

## Plenum Low PIM 7/16 DIN Female to N Male Cable SPP-375-LLPL Coax in 48 Inch Using Times Microwave Parts

The 7/16 DIN female to type N male 48 inch cable using SPP-375-LLPL coax, part number FMCA2054-48, from Fairview Microwave is in-stock and ships same day. This Fairview 7/16 DIN to type N cable assembly has a female to male gender configuration with 50 ohm corrugated SPP-375-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 FMCA2054-48 7/16 DIN female 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	Max	Units		
Frequency Range	DC			5.8	GHz		
VSWR				1.4:1			
Velocity of Propagation			76			%	
RF Shielding	100					dB	
Passive Intermodulation		-1	165	-160	(	dBc	
Capacitance		26.2 [85.96]		pF/ft [pF/m]			
Inductance		0.067 [0.22]		uH/ft [uH/m]			
DC Resistance Inner Conductor		1.3 [4.27]		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.)	0.28	0.32	0.36	0.52	0.76	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\*SQRT(FGHz) dB for the 7/16 DIN connector and 0.1 dB for the N connector.

### **Mechanical Specifications**

Cable Assembly Length\*

48 in [121.92 cm]



FMCA2054-48 DATA SHEET

# **Configuration:**

- 7/16 DIN Female
- TC-SPP375-716F-LP
- N Male
- TC-SPP375-NM-LP
- SPP-375-LLPL

### **Features:**

- Max Frequency 5.8 GHz
- Low PIM: -160 dBc Max
- Shielding Effectivity > 100 dB
- 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

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# FMCA2054-48 DATA SHEET

#### Cable

Cable Type
Impedance
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

SPP-375-LLPL 50 Ohms Solid Copper Clad Aluminum Microporous PTFE 1 Helically Corrugated Copper Tube Copper FEP, Blue 0.402 in [10.21 mm]

1.25 in [31.75 mm]

1.7 lbs-ft [2.31 N-m]

One Time Minimum Bend Radius Bending Moment

### Connectors

Description	Connect	or 1	Connecto	r 2	
Туре	7/16 DIN F	emale	le N Male		
Impedance	50 Ohr	ns	50 Ohms		
Contact Material & Plating	Phosphor Bron	ze, Silve	er Brass, Silv	Brass, Silver	
Contact Plating Spec.	200 µi	n	196 µin		
Dielectric Type	PTFE		PTFE		
Outer Cond Material & Plat	ing	Brass, Tri-Metal		etal	
Outer Cond Plating Spec.			118 µin		
Body Material & Plating	Brass, Tri-	Metal	al		
Body Plating Spec.	80 µir	ı			
Coupling Nut Material & Pla	ating		Brass, Tri-M	Brass, Tri-Metal	
oupling Nut Plating Spec. 118 µin					
Torque			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:



Example: FMCA2054-12 = 12 inches long cable FMCA2054-100 cm = 100 cm long cable

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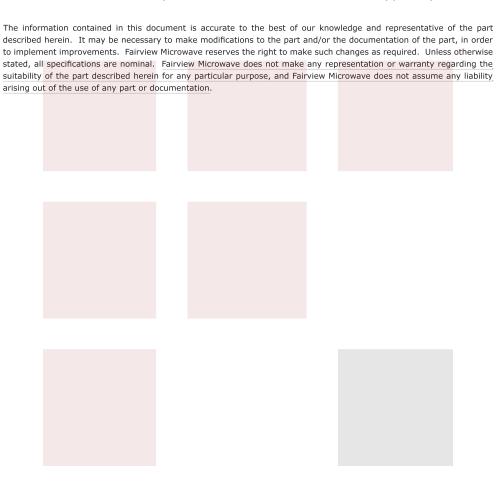
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Plenum Low PIM 7/16 DIN Female to N Male Cable SPP-375-LLPL Coax in 48 Inch Using Times Microwave Parts from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

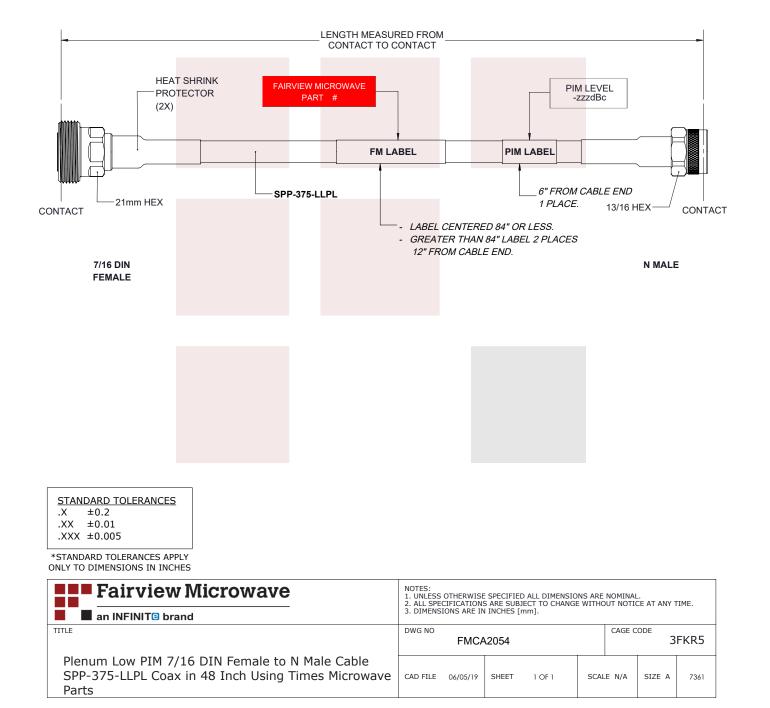
Click the following link to obtain additional part information: Plenum Low PIM 7/16 DIN Female to N Male Cable SPP-375-LLPL Coax in 48 Inch Using Times Microwave Parts FMCA2054-48

URL: https://www.fairviewmicrowave.com/low-pim-7-16-din-female-n-male-cable-spp375llpl-coax-fmca2054-48-p.aspx









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